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February 13, 2014

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

Dear Messrs. Montes and Faris:

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

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

Sincerely,

A handwritten signature in blue ink 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.  
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Albuquerque, New Mexico 87102

February 2014

EA Project No. 1464103.0006





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Teri McMillan  
Project Manager

02/13/14

Date

Jay Snyder  
Senior Hydrogeologist

02/13/14

Date

February 2014

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## 1.0 INTRODUCTION

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

### 1.1 Objective

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

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

- On November 6 and 7, 2013, two representatives from D&H Petroleum and Environmental Services, Inc. (D&H) gauged all discharge plan (DP) and abatement plan (AP) monitoring wells.
- Starting on November 11, 2013, 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 one month with work stopping for holidays, ending on January 2, 2014. The samples were delivered to TraceAnalysis, Inc. and analyzed for nitrate using EPA Method 300.0 or SM 4500 NO<sub>3</sub> E, chloride by EPA Method 300.0, total dissolved solids (TDS) by Method SM 2540C, and total Kjeldhal nitrogen (TKN) by Method SM 4500 N org C;
- The most recent groundwater gauging and analytical results are compiled into this Quarterly Groundwater Monitoring Report.

### 1.2 Background

In 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 6 and 7, 2013, two representatives from D&H gauged the DP and AP monitoring wells with an electronic water level indicator. Due to a declining water table, several wells were dry. Table 1 provides a summary of the groundwater gauging data collected from the monitoring network. Potentiometric surface maps were constructed based on these data (Figures 2, 3, 4, and 5).

### 2.2 Groundwater Sampling

From December 11 through December 16, 2014, D&H sampled the AP monitoring wells DAD-01 through DAD-22 with disposable bailers, with the exception of wells DAD-06 and DAD-15. AP well DAD-06 was reported to not contain enough water to sample. AP well DAD-15 was sampled on January 2, 2014, when it could be accessed. Wells were purged of three well volumes with new disposable bailers prior to sample collection, unless the well contained insufficient water.

D&H sampled the DP wells from November 11 through December 10, 2013. Prior to sampling, the DP wells were purged three well volumes, if practicable by hand-bailing with a new disposable bailer per well or by pumping with a pump and new polyethylene tubing or pumping with a dedicated pump.

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 11.04 feet below top of casing (ft TOC) in Sunset/Desert Land Dairy well 257-03 to 131.11 ft TOC in Dominguez #2 well 42-12. Groundwater is encountered at shallower depths near the Mesquite Drain and at greater depths near I-10 where the topographic elevation increases.

Potentiometric surface maps were completed using the monitoring well gauging data for the northern, central, and southern portions of the Dairies and are provided as Figures 2, 3, 4, and 5. Hydrographs were completed for select monitoring wells and are provided in Appendix C. In general, water levels have decreased in most wells in the northern and southern area, and increased in the central area when compared to the last monitoring event conducted in August/September 2013 (See hydrographs presented in Appendix C). The average decrease in water levels across the site was 0.20 ft when compared to the previous event. The long term decreases in water levels have resulted in many wells becoming dry.

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

#### 3.2 Groundwater Analytical Results

##### 3.2.1 Abatement Plan Well Results

Groundwater analyte concentrations were below the NMWQCC standard for nitrate (10 mg/L) in all but 9 of the 21 AP monitoring wells sampled. AP wells DAD-03 and DAD-22 contained sufficient water to be sampled this quarter. The AP wells that had nitrate concentrations above standards are DAD-08, DAD-09, DAD-11, DAD-12, DAD-14, DAD-18, DAD-19, DAD-20 and DAD-21. Both chloride and TDS concentrations exceeded their respective NMWQCC standards in all 21 wells sampled except well DAD-05 which was below standards for both chloride and TDS.

Nitrate concentrations generally increased in most of the DAD wells, with the exception of wells DAD-05, DAD-08, DAD-15, and DAD-19 where nitrate concentrations decreased. Nitrate was below detection limits in well DAD-03. Wells DAD-08 and DAD-19 saw the largest decreases in nitrate concentrations. AP well DAD-08 decreased from 74.9 milligram per liter (mg/L) in September 2013 to 70.7 mg/L in December 2013. Well DAD-19, a vertical delineation well, decreased from 54.6 mg/L to 48.9 mg/L over the same time period. AP well DAD-09 had the largest increase in nitrate concentrations since September 2013, increasing from 12.3 mg/L to 17.4 mg/L for this event. Nitrate concentrations, in the AP wells, ranged from below detection limits (<0.213 mg/L) in well DAD-03 to 70.7 mg/L in well DAD-08 for this event.

Concentrations of chloride and TDS in all wells remain relatively constant compared to levels

measured in the past with the exception of well DAD-05. Last quarter, September 2013, well DAD-05 showed a significant decrease to below standards in chloride and TDS. The chloride and TDS concentrations for both the September 2013 and this November 2013 event are suspect. Chloride concentration in the AP wells range from 72.9 mg/L in well DAD-05 to 2,500 mg/L in well DAD-08 for this event, and TDS ranged from 695 mg/L in well DAD-05 to 6,780 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, 9 and 10. Analytical laboratory reports are included in Appendix B. The following discussions summarize the results by area at the Dairies.

#### Northern Portion

The downgradient extent of the nitrate plume within the northern portion is defined by well DAD-02 with a nitrate concentration of 7.91 mg/L. The upgradient well (northern land application well 86/340-1) had a nitrate concentration of 12.2 mg/L, which is just above the NMWQCC standard for nitrate (10 mg/L). All eastern cross-gradient wells (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 three quarters. Nitrate concentrations in the well nearest to Dominguez 624-05, Day Break (Dominguez #2) 42-02, have been decreasing over the last year, and fell below standards from 14.5 mg/L in September 2013 to 9.62 mg/L for this event.

The chloride and TDS concentrations are above standards in all wells sampled within the northern portion. The highest concentrations of chloride and TDS were observed in the Northern Land Application area well 70-03 at 2,680 mg/L and 6,800 mg/L, respectively.

#### Central Portion

The highest nitrate concentrations were observed in Big Sky Dairy wells 833-08 and 833-09 at concentrations of 86.3 mg/L and 137 mg/L, respectively. The extent of the nitrate plume is defined in the Central Portion. Nitrate concentrations in Buena Vista well 74-03, the upgradient well, increased to above standards this quarter from 5.2 mg/L in September 2013, to 10.7 mg/L in December 2013. This is the first quarter since February 2012 that Buena Vista well 74-03 has been above standards for nitrate. AP well DAD-17 defines the downgradient extent of the plume with a nitrate concentration of 2.45 mg/L, well below NMDEQ standards (10 mg/L). 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, DAD-05 and DAD-16 where nitrate concentrations remain below

standards.

Chloride and TDS concentrations are above standards in all wells within the central portion, except River Valley well 167-07 with a chloride concentration of 233 mg/L. The highest chloride and TDS concentrations were observed at well DAD-08 at 2,500 mg/L and 6,780 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; however, all of the wells in the regional aquifer are below the NMWQCC standard of 10 mg/L.

In the shallow perched aquifer the nitrate plume is not defined downgradient (southwest). Nitrate concentrations in AP wells DAD-09, DAD-20, and DAD-21 are above NMWQCC standards. AP well DAD-22 was able to be sampled this quarter, and was below standards with a nitrate concentration of 6.35 mg/L. Nitrate concentrations in well DAD-22 have continued to decrease since the well was installed in 2011. The well with the highest nitrate concentration in the shallow perched aquifer is Del Oro Dairy well 692-02 with a concentration of 108 mg/L. Nitrate concentrations in Del-Oro well 692-01 are suspect for this quarter.

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 692-05 to 906 mg/L in well 692-02, while TDS ranged from 1,320 mg/L to 3,520 mg/L in Del Oro Dairy wells 692-08 and 692-02, respectively. Upgradient well Del Oro 692-08 had a chloride concentration of 456 mg/L and a TDS concentration of 1,320 mg/L.



#### 4.0 CONCLUSION AND RECOMMENDATIONS

The groundwater monitoring event included the gauging of all DP and DAD wells and sampling of all 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 11.04 to 131.11 feet below the top of casing.
- In general, water levels have decreased in the northern and southern areas and increased slightly in the central area when compared to the last monitoring event conducted in September 2013.
- The groundwater flow direction at the Dairies within the regional groundwater aquifer is east-southeast. The hydraulic gradient is 0.001 ft./ft.
- The perched groundwater aquifer at Del Oro Dairy has a groundwater flow direction toward the southwest.
- Nitrate was below the NMWQCC standards in 12 of the 21 groundwater samples collected from all the AP DAD wells.
- Nitrate concentrations in Del Oro well 692-01 are suspect for this quarter.
- Chloride was above the NMWQCC standard in all monitoring wells sampled, except AP wells DAD-05 and River Valley well 167-07 for the second consecutive quarterly monitoring event.
- TDS was above the NMWQCC standard in all monitoring wells sampled, except AP well DAD-05 for the second consecutive quarterly monitoring event.
- Chloride and TDS results for well DAD-05 are suspect for this quarter.
- 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 <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|---------------------------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| <b>NORTHERN AREA</b>                  |               |                       |                      |                               |                             |                                     |
| <b>Northern Land Application Area</b> |               |                       |                      |                               |                             |                                     |
| 70-03                                 | 6-Nov-2013    | 424580.78             | 1510233.88           | 3871.43                       | 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                          | 6-Nov-2013    | 427320.92             | 1508461.05           | 3866.77                       | 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               |                      |                               |                             |                                     |
| 86/340-01                             | 6-Nov-2013    | 432021.33             | 1503216.90           | 3876.14                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well                                | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|--|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| <b>Former Daybreak Dairy (Del Norte Dairy)</b> |               |                       |                      |                               |                             |                                     |
| 126-04   | 6-Nov-2013    | 423258.23             | 1510546.24           | 3850.31                       | 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               |                      |                               |                             |                                     |
| 126-05   | 6-Nov-2013    | 422293.26             | 1510649.84           | 3842.62                       | 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   | 6-Nov-2013    | 423613.62             | 1509986.47           | 3850.94                       | 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 <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 126-09          | 6-Nov-2013    | 425154.15             | 1510994.31           | 3893.35                       | 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          | 6-Nov-2013    | 421492.11             | 1510198.45           | 3838.88                       | 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               |                      |                               |                             |                                     |
| 126-13          | 6-Nov-2013    | 423431.96             | 1510657.41           | 3857.37                       | 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                    |                      |                               |                             |                                     |

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

| Monitoring Well            | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|----------------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| <b>Mountain View Dairy</b> |               |                       |                      |                               |                             |                                     |
| 70-01                      | 6-Nov-2013    | 423303.43             | 1510585.63           | 3851.84                       | 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               |                      |                               |                             |                                     |
| 70-02                      | 6-Nov-2013    | 423412.73             | 1511192.51           | 3861.25                       | 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                      | 7-Nov-2013    | 422798.94             | 1510922.20           | 3849.81                       | 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                             |
| <b>Buena Vista Dairy I</b> |               |                       |                      |                               |                             |                                     |
| 86-01                      | 6-Nov-2013    | 421534.62             | 1511667.76           | 3864.96                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well          | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|--------------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 86-02                    | 6-Nov-2013    | 421792.08             | 1510881.53           | 3848.08                       | 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               |                      |                               |                             |                                     |
| <b>Bright Star Dairy</b> |               |                       |                      |                               |                             |                                     |
| 340-01                   | 6-Nov-2013    | 421410.13             | 1511423.42           | 3858.48                       | 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                   | 6-Nov-2013    | 420641.08             | 1512051.57           | 3869.76                       | 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 <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|---|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| <b>Former D&amp;J Dairy (Dominguez 2)</b> |               |                       |                      |                               |                             |                                     |
| 42-02                                     | 6-Nov-2013    | 419982.45             | 1511126.19           | 3844.69                       | 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                                     | 6-Nov-2013    | 419710.55             | 1514064.35           | 3898.46                       | 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               |                      |                               |                             |                                     |
| 42-06                                     | 6-Nov-2013    | 420021.61             | 1511465.15           | 3850.15                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 42-07           | 6-Nov-2013    | 420584.8              | 1513076.66           | 3891.52                       | 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   |                       |                      |                               | Dry                         |                                     |
|                 | 18-Jan-2011   |                       |                      |                               | 72.19                       | 3819.33                             |
|                 | 15-Sep-2010   |                       |                      |                               | 71.37                       | 3820.15                             |
|                 | 24-Jun-2010   |                       |                      |                               | 71.64                       | 3819.88                             |
|                 | 22-Mar-2010   |                       |                      |                               | 72.24                       | 3819.28                             |
|                 | 8-Dec-2009    |                       |                      |                               | 71.43                       | 3820.09                             |
|                 | 28-Aug-2009   |                       |                      |                               | 71.26                       | 3820.26                             |
|                 | 26-May-2009   |                       |                      |                               | 71.26                       | 3820.26                             |
|                 | 11-Dec-2008   |                       |                      |                               | 71.31                       | 3820.21                             |
|                 | 27-Sep-2008   |                       |                      |                               | 70.87                       | 3820.65                             |
| 10-Jun-2008     | 70.95         | 3820.57               |                      |                               |                             |                                     |
| 6-Feb-2008      | 71.71         | 3819.81               |                      |                               |                             |                                     |
| 13-Nov-2007     | 71.00         | 3820.52               |                      |                               |                             |                                     |
| 12-Sep-2007     | 71.12         | 3820.40               |                      |                               |                             |                                     |
| 42-08           | 6-Nov-2013    | 419994.93             | 1511197.91           | 3846.53                       | 71.61                       | 3819.91                             |
|                 | 6-Aug-2013    |                       |                      |                               | 28.26                       | 3818.27                             |
|                 | 7-May-2013    |                       |                      |                               | 27.97                       | 3818.56                             |
|                 | 7-Feb-2013    |                       |                      |                               | 28.69                       | 3817.84                             |
|                 | 24-Oct-2012   |                       |                      |                               | 28.43                       | 3818.10                             |
|                 | 31-Jul-2012   |                       |                      |                               | 27.92                       | 3818.61                             |
|                 | 23-Apr-2012   |                       |                      |                               | 27.11                       | 3819.42                             |
|                 | 26-Jan-2012   |                       |                      |                               | 27.51                       | 3819.02                             |
|                 | 8-Dec-2011    |                       |                      |                               | 27.68                       | 3818.85                             |
|                 | 19-Jul-2011   |                       |                      |                               | 27.33                       | 3819.20                             |
|                 | 19-Apr-2011   |                       |                      |                               | 25.24                       | 3821.29                             |
|                 | 18-Jan-2011   |                       |                      |                               | 25.72                       | 3820.81                             |
|                 | 15-Sep-2010   |                       |                      |                               | 25.28                       | 3821.25                             |
|                 | 24-Jun-2010   |                       |                      |                               | 24.37                       | 3822.16                             |
|                 | 22-Mar-2010   |                       |                      |                               | 24.91                       | 3821.62                             |
|                 | 8-Dec-2009    |                       |                      |                               | 25.15                       | 3821.38                             |
|                 | 28-Aug-2009   |                       |                      |                               | 24.91                       | 3821.62                             |
|                 | 26-May-2009   |                       |                      |                               | 24.46                       | 3822.07                             |
|                 | 11-Dec-2008   |                       |                      |                               | 24.75                       | 3821.78                             |
|                 | 27-Sep-2008   |                       |                      |                               | 24.88                       | 3821.65                             |
| 10-Jun-2008     | 24.30         | 3822.23               |                      |                               |                             |                                     |
| 6-Feb-2008      | 25.13         | 3821.40               |                      |                               |                             |                                     |
| 13-Nov-2007     | 25.41         | 3821.12               |                      |                               |                             |                                     |
| 12-Sep-2007     | 25.00         | 3821.53               |                      |                               |                             |                                     |
| 42-09           | 6-Nov-2013    | 419729.17             | 1512255.76           | 3865.25                       | 25.13                       | 3821.40                             |
|                 | 6-Aug-2013    |                       |                      |                               | 48.23                       | 3817.02                             |
|                 | 7-May-2013    |                       |                      |                               | 47.88                       | 3817.37                             |
|                 | 7-Feb-2013    |                       |                      |                               | 48.04                       | 3817.21                             |
|                 | 24-Oct-2012   |                       |                      |                               | 47.79                       | 3817.46                             |
|                 | 31-Jul-2012   |                       |                      |                               | 47.29                       | 3817.96                             |
|                 | 23-Apr-2012   |                       |                      |                               | 46.98                       | 3818.27                             |
|                 | 25-Jan-2012   |                       |                      |                               | 46.93                       | 3818.32                             |
|                 | 8-Dec-2011    |                       |                      |                               | 46.95                       | 3818.30                             |
|                 | 19-Jul-2011   |                       |                      |                               | 46.76                       | 3818.49                             |
|                 | 19-Apr-2011   |                       |                      |                               | 45.54                       | 3819.71                             |
|                 | 18-Jan-2011   |                       |                      |                               | 45.38                       | 3819.87                             |
|                 | 15-Sep-2010   |                       |                      |                               | 44.87                       | 3820.38                             |
|                 | 24-Jun-2010   |                       |                      |                               | 44.21                       | 3821.04                             |
|                 | 22-Mar-2010   |                       |                      |                               | 44.99                       | 3820.26                             |
|                 | 8-Dec-2009    |                       |                      |                               | 44.72                       | 3820.53                             |
|                 | 28-Aug-2009   |                       |                      |                               | 44.70                       | 3820.55                             |
|                 | 26-May-2009   |                       |                      |                               | 44.32                       | 3820.93                             |
|                 | 11-Dec-2008   |                       |                      |                               | 44.50                       | 3820.75                             |
|                 | 27-Sep-2008   |                       |                      |                               | 44.39                       | 3820.86                             |
| 10-Jun-2008     | 44.12         | 3821.13               |                      |                               |                             |                                     |
| 6-Feb-2008      | 44.77         | 3820.48               |                      |                               |                             |                                     |
| 13-Nov-2007     | 44.80         | 3820.45               |                      |                               |                             |                                     |
| 12-Sep-2007     | 44.47         | 3820.78               |                      |                               |                             |                                     |
|                 |               |                       |                      |                               | 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 <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 42-10           | 6-Nov-2013    | 421426.39             | 1514460.4            | 3929.28                       | 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                             |
|                 | 8-Dec-2009    |                       |                      |                               | 109.41                      | 3819.87                             |
|                 | 28-Aug-2009   |                       |                      |                               | 109.67                      | 3819.61                             |
|                 | 26-May-2009   |                       |                      |                               | 109.53                      | 3819.75                             |
|                 | 11-Dec-2008   |                       |                      |                               | 109.00                      | 3820.28                             |
|                 | 27-Sep-2008   |                       |                      |                               | 109.49                      | 3819.79                             |
| 11-Jun-2008     | 109.88        | 3819.40               |                      |                               |                             |                                     |
| 6-Feb-2008      | 108.98        | 3820.30               |                      |                               |                             |                                     |
| 14-Nov-2007     | 109.36        | 3819.92               |                      |                               |                             |                                     |
| 12-Sep-2007     | 109.92        | 3819.36               |                      |                               |                             |                                     |
| 42-11           | 6-Nov-2013    | 420693.98             | 1515270.32           | 3939.31                       | 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               |                      |                               |                             |                                     |
| 42-12           | 6-Nov-2013    | 420972.09             | 1515423.88           | 3945.83                       | 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                             |
|                 | 8-Dec-2009    |                       |                      |                               | 126.60                      | 3819.23                             |
|                 | 28-Aug-2009   |                       |                      |                               | 126.84                      | 3818.99                             |
|                 | 26-May-2009   |                       |                      |                               | 126.68                      | 3819.15                             |
|                 | 11-Dec-2008   |                       |                      |                               | 126.18                      | 3819.65                             |
|                 | 27-Sep-2008   |                       |                      |                               | 126.68                      | 3819.15                             |
| 11-Jun-2008     | 126.88        | 3818.95               |                      |                               |                             |                                     |
| 6-Feb-2008      | 126.16        | 3819.67               |                      |                               |                             |                                     |
| 14-Nov-2007     | 126.55        | 3819.28               |                      |                               |                             |                                     |
| 12-Sep-2007     | 127.04        | 3818.79               |                      |                               |                             |                                     |

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

| Monitoring Well        | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|------------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 42-13                  | 6-Nov-2013    | 419734.06             | 1512534.42           | 3873.10                       | 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               |                      |                               |                             |                                     |
| <b>Dominguez Dairy</b> |               |                       |                      |                               |                             |                                     |
| 624-01                 | 7-Nov-2013    | 418826.21             | 1512131.46           | 3843.72                       | 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                 | 7-Nov-2013    | 417335.25             | 1512201.42           | 3835.45                       | 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 <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 624-04          | 7-Nov-2013    | 418542.24             | 1508104.07           | 3835.69                       | 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          | 7-Nov-2013    | 419777.52             | 1509829.65           | 3835.27                       | 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               |                      |                               |                             |                                     |
| 624-06          | 7-Nov-2013    | 418502.42             | 1513981.08           | 3868.18                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well       | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 624-07                | 7-Nov-2013    | 418012.23             | 1514707.77           | 3872.25                       | 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               |                      |                               |                             |                                     |
| 624-08                | 7-Nov-2013    | 421461.78             | 1507712.04           | 3838.70                       | 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               |                      |                               |                             |                                     |
| <b>Gonzalez Dairy</b> |               |                       |                      |                               |                             |                                     |
| 177-01                | 7-Nov-2013    | 417300.94             | 1512942.63           | 3834.27                       | 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 <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 177-02          | 7-Nov-2013    | 416738.21             | 1513246.51           | 3834.66                       | 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         | 7-Nov-2013    | 416206.71             | 1513777.17           | 3835.75                       | 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                             |
|                 | 177-04        |                       |                      |                               | 7-Nov-2013                  | 416796.99                           |
| 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          | 6-Nov-2013    | 417302.42             | 1514116.55           | 3852.16                       | 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 <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |            |         |                       |  |
|-----------------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|------------|---------|-----------------------|--|
| 177-06                      | 7-Nov-2013    | 417301.84             | 1514765.63           | 3866.02                       | 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                     | 7-Nov-2013    | 415240.93             | 1515476.47           | 3858.91                       | 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        |                       |                      |                               | Apr-11                      | 415258.95                           | 1515471.64 | 3859.96 | Plugged and Abandoned |  |
|                             |               |                       |                      |                               | 17-Jan-2011                 |                                     |            |         | Dry                   |  |
| 15-Sep-2010                 |               | Dry                   |                      |                               |                             |                                     |            |         |                       |  |
| 23-Jun-2010                 |               | Dry                   |                      |                               |                             |                                     |            |         |                       |  |
| 22-Mar-2010                 |               | Dry                   |                      |                               |                             |                                     |            |         |                       |  |
| 8-Dec-2009                  |               | Dry                   |                      |                               |                             |                                     |            |         |                       |  |
| 10-Dec-2008                 |               | Dry                   |                      |                               |                             |                                     |            |         |                       |  |
| 27-Sep-2008                 |               | Dry                   |                      |                               |                             |                                     |            |         |                       |  |
| 10-Jun-2008                 |               | Dry                   |                      |                               |                             |                                     |            |         |                       |  |
| 6-Feb-2008                  |               | Dry                   |                      |                               |                             |                                     |            |         |                       |  |
| 13-Nov-2007                 |               | Dry                   |                      |                               |                             |                                     |            |         |                       |  |
| 13-Sep-2007                 |               | Dry                   |                      |                               |                             |                                     |            |         |                       |  |
| <b>CENTRAL AREA</b>         |               |                       |                      |                               |                             |                                     |            |         |                       |  |
| <b>Buena Vista Dairy II</b> |               |                       |                      |                               |                             |                                     |            |         |                       |  |
| 74-01                       | 6-Nov-2013    | 405434.93             | 1519310.15           | 3841.01                       | 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               |                      |                               |                             |                                     |            |         |                       |  |



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

| Monitoring Well                       | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|---------------------------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| <b>Buena Vista Dairy II Continued</b> |               |                       |                      |                               |                             |                                     |
| 74-02                                 | 6-Nov-2013    | 404574.08             | 1519035.52           | 3820.58                       | 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               |                      |                               |                             |                                     |
| 74-03                                 | 6-Nov-2013    | 407163.61             | 1516711.72           | 3823.36                       | 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                                 | 6-Nov-2013    | 405488.65             | 1519864.48           | 3853.17                       | 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 <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|---------------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 74-05                     | 6-Nov-2013    | 404747.71             | 1519885.3            | 3845.35                       | 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               |                      |                               |                             |                                     |
| <b>River Valley Dairy</b> |               |                       |                      |                               |                             |                                     |
| 167-01                    | 6-Nov-2013    | 402518.37             | 1518459.71           | 3818.94                       | 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               |                      |                               |                             |                                     |
| 167-01A                   | 6-Nov-2013    | 402518.18             | 1518936.72           | 3818.88                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 167-02          | 6-Nov-2013    | 402498.3              | 1519354.81           | 3819.64                       | 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               |                      |                               |                             |                                     |
| 167-03          | 6-Nov-2013    | 402981.73             | 1519415.73           | 3825.66                       | 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          | 6-Nov-2013    | 402032.19             | 1519884.6            | 3827.60                       | 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   |                       |                      |                               | Well Damaged                |                                     |
|                 | 22-Mar-2010   |                       |                      |                               | Well Damaged                |                                     |
|                 | 8-Dec-2009    |                       |                      |                               | Well Damaged                |                                     |
|                 | 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 <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 167-05          | 6-Nov-2013    | 397947.44             | 1520446.03           | 3815.44                       | 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          | 6-Nov-2013    | 404479.35             | 1519603.88           | 3834.84                       | 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               |                      |                               |                             |                                     |
| 167-07          | 6-Nov-2013    | 402562.23             | 1518480.34           | 3819.08                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well      | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|----------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 167-08               | 6-Nov-2013    | 399352.96             | 1519889.65           | 3817.96                       | 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               |                      |                               |                             |                                     |
| 167-09               | 6-Nov-2013    | 398473.95             | 1519259.34           | 3817.00                       | 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               |                      |                               |                             |                                     |
| <b>Big Sky Dairy</b> |               |                       |                      |                               |                             |                                     |
| 833-01               | 6-Nov-2013    | 399617.23             | 1521136.33           | 3839.55                       | 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-2001   |                       |                      |                               | 35.44                       | 3804.11                             |
|                      | 17-Jan-2011   |                       |                      |                               | 35.20                       | 3804.35                             |
|                      | 14-Sep-2010   |                       |                      |                               | 34.76                       | 3804.79                             |
|                      | 22-Jun-2010   |                       |                      |                               | 36.08                       | 3803.47                             |
|                      | 22-Mar-2010   |                       |                      |                               | 35.49                       | 3804.06                             |
|                      | 8-Dec-2009    |                       |                      |                               | 35.25                       | 3804.30                             |
|                      | 28-Aug-2009   |                       |                      |                               | 35.25                       | 3804.30                             |
|                      | 26-May-2009   |                       |                      |                               | 34.69                       | 3804.86                             |
|                      | 10-Dec-2008   |                       |                      |                               | 34.99                       | 3804.56                             |
|                      | 28-Sep-2008   |                       |                      |                               | 34.58                       | 3804.97                             |
| 10-Jun-2008          | 36.13         | 3803.42               |                      |                               |                             |                                     |
| 5-Feb-2008           | 35.51         | 3804.04               |                      |                               |                             |                                     |
| 14-Nov-2007          | 35.70         | 3803.85               |                      |                               |                             |                                     |
| 12-Sep-2007          | 35.79         | 3803.76               |                      |                               |                             |                                     |

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

| Monitoring Well | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 833-02          | 6-Nov-2013    | 401200.32             | 1520639.92           | 3836.04                       | 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          | 6-Nov-2013    | 401392.09             | 1521955.23           | 3867.06                       |                             | 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               |                      |                               |                             |                                     |
| 833-04          | 6-Nov-2013    | 402898.52             | 1520659.33           | 3845.79                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 833-05          | 6-Nov-2013    | 399712.39             | 1522374.73           | 3865.51                       | 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               |                      |                               |                             |                                     |
| 833-06          | 6-Nov-2013    | 402219.48             | 1522652.04           | 3878.20                       | 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          | 6-Nov-2013    | 399298.8              | 1522082.75           | 3860.70                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 833-08          | 6-Nov-2013    | 400535.64             | 1521938.23           | 3861.76                       | 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          | 6-Nov-2013    | 398280.67             | 1520918.52           | 3826.27                       | 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               |                      |                               |                             |                                     |
| 833-10          | 6-Nov-2013    | 396715.89             | 1520283.6            | 3820.76                       | 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               |                      |                               |                             |                                     |



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

| Monitoring Well                 | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|---------------------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| <b>Sunset/Desert Land Dairy</b> |               |                       |                      |                               |                             |                                     |
| 257-01                          | 6-Nov-2013    | 395856.31             | 1520572.16           | 3820.33                       | 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               |                      |                               |                             |                                     |
| 257-02                          | 6-Nov-2013    | 394728.34             | 1521030.29           | 3813.67                       | 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                          | 6-Nov-2013    | 397935.69             | 1518746.14           | 3814.74                       | 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 <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-------------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 257/260-01              | 6-Nov-2013    | 397678.36             | 1519948.22           | 3814.04                       | 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                    |                      |                               |                             |                                     |
| <b>Additional Wells</b> |               |                       |                      |                               |                             |                                     |
| Bruce1                  | 18-Jul-2011   | 388741.02             | 1523777.06           | 3808.92                       | Destroyed                   |                                     |
|                         | 19-Apr-2011   |                       |                      |                               | 11.17                       | 3797.75                             |
|                         | 17-Jan-2011   |                       |                      |                               | 11.13                       | 3797.79                             |
|                         | 15-Sep-2010   |                       |                      |                               | 10.38                       | 3798.54                             |
|                         | 23-Jun-2010   |                       |                      |                               | 10.99                       | 3797.93                             |
|                         | 21-Mar-2010   |                       |                      |                               | 11.50                       | 3797.42                             |
|                         | 8-Dec-2009    |                       |                      |                               | 11.05                       | 3797.87                             |
|                         | 27-Aug-2009   |                       |                      |                               | 10.41                       | 3798.51                             |
|                         | 27-May-2009   |                       |                      |                               | 10.77                       | 3798.15                             |
|                         | 10-Dec-2008   |                       |                      |                               | 11.28                       | 3797.64                             |
|                         | 27-Sep-2008   |                       |                      |                               | 10.93                       | 3797.99                             |
|                         | 10-Jun-2008   |                       |                      |                               | 11.28                       | 3797.64                             |
|                         | 5-Feb-2008    |                       |                      |                               | 11.47                       | 3797.45                             |
| Bruce2                  | 5-Feb-2008    | NM                    | NM                   | NM                            | Destroyed                   |                                     |
|                         | 10-Jun-2008   |                       |                      |                               | 8.33                        | --                                  |
| <b>SOUTHERN AREA</b>    |               |                       |                      |                               |                             |                                     |
| <b>Del Oro Dairy</b>    |               |                       |                      |                               |                             |                                     |
| 692-01                  | 6-Nov-2013    | 373615.88             | 1531529.38           | 3844.13                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 692-02          | 6-Nov-2013    | 372984.72             | 1531192.1            | 3840.84                       | 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               |                      |                               |                             |                                     |
| 692-04          | 6-Nov-2013    | 372982.53             | 1531555.21           | 3842.66                       | 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          | 6-Nov-2013    | 374807.26             | 1532403              | 3854.26                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 692-06          | 6-Nov-2013    | 375054.77             | 1532411.83           | 3856.48                       | 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          | 6-Nov-2013    | 374944.88             | 1532019.81           | 3848.20                       | 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               |                      |                               |                             |                                     |
| 692-08          | 6-Nov-2013    | 375535.69             | 1531378.09           | 3843.09                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well                            | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|--|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| 692-09                                     | 6-Nov-2013    | 373575.83             | 1532395.09           | 3856.32                       | 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               |                      |                               |                             |                                     |
| <b>Anthony Waste Water Treatment Plant</b> |               |                       |                      |                               |                             |                                     |
| MW-1                                       | 7-Nov-2013    | 372097.86             | 1532364.36           | 3843.03                       | 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                                       | 7-Nov-2013    | NM                    | NM                   | 3843.25                       | 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               |                      |                               |                             |                                     |
| MW-3                                       | 7-Nov-2013    | NM                    | NM                   | 3841.24                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well                     | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-------------------------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| <b>ABATEMENT PLAN MONITOR WELLS</b> |               |                       |                      |                               |                             |                                     |
| DAD-01                              | 6-Nov-2013    | 422970.59             | 1512825.76           | 3886.16                       | 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               |                      |                               |                             |                                     |
| DAD-02                              | 7-Nov-2013    | 413002.98             | 1517319.93           | 3875.82                       | 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                              | 11-Dec-2013   | 407721.31             | 1516497.85           | 3820.58                       | 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               |                      |                               |                             |                                     |
| DAD-04                              | 7-Nov-2013    | 404576.66             | 1517413.28           | 3821.47                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| DAD-05          | 7-Nov-2013    | 396712.87             | 1519102.06           | 3816.01                       | 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               |                      |                               |                             |                                     |
| DAD-06          | 7-Nov-2013    | 404273.19             | 1522081.00           | 3887.71                       | 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          | 7-Nov-2013    | 399270.18             | 1524320.88           | 3891.38                       | 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               |                      |                               |                             |                                     |
| DAD-08          | 7-Nov-2013    | 395287.38             | 1522575.07           | 3849.15                       | 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               |                      |                               |                             |                                     |

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

| Monitoring Well    | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|--------------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| DAD-09             | 7-Nov-2013    | 373259.30             | 1530905.70           | 3838.03                       | 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               |                      |                               |                             |                                     |
| DAD-10             | 7-Nov-2013    | 372980.55             | 1532375.33           | 3854.93                       | 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<br>(177-03) | 7-Nov-2013    | 416211.35             | 1513814.71           | 3835.90                       | 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             | 7-Nov-2013    | 419731.54             | 1512274.77           | 3866.72                       | 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 <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>d</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| DAD-13          | 7-Nov-2013    | 417879.08             | 1515673.13           | 3898.44                       | 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          | 7-Nov-2013    | 414923.33             | 1514695.26           | 3841.90                       | 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          | 7-Nov-2013    | 402001.22             | 1523552.04           | 3897.61                       | 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          | 7-Nov-2013    | 400628.77             | 1519350.74           | 3819.28                       | 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          | 7-Nov-2013    | 393991.97             | 1520267.94           | 3817.75                       | 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                             |
| DAD-18          | 7-Nov-2013    | 395714.14             | 1520588.96           | 3821.59                       | 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          | 7-Nov-2013    | 400164.47             | 1522027.92           | 3864.50                       | 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          | 7-Nov-2013    | 371751.45             | 1531188.19           | 3833.27                       | 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                             |

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

| Monitoring Well | Date Measured | Northing <sup>a</sup> | Easting <sup>a</sup> | Casing Elevation <sup>b</sup> | Depth to Water <sup>c</sup> | Ground Water Elevation <sup>b</sup> |
|-----------------|---------------|-----------------------|----------------------|-------------------------------|-----------------------------|-------------------------------------|
| DAD-21          | 7-Nov-2013    | 374013.39             | 1530983.98           | 3839.62                       | 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                             |
| DAD-22          | 7-Nov-2013    | 373029.62             | 1530352.69           | 3827.14                       | 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:  
<sup>a</sup> Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)  
<sup>b</sup> Vertical Control to NAVD88 Datum in feet above mean sea level  
<sup>c</sup> Measured in feet below the top of casing at survey point on north side of well  
<sup>d</sup> Measured in feet  
Wells were gauged on a different date by Magee and Associates Inc.  
Wells were gauged on a different date by EnviroCompliance Inc.  
Measured data were suspect and corrected to reflect appropriate trends in accordance with surrounding wells

**TABLE 2. SUMMARY OF SAMPLE ANALYTICAL METHODS AND COLLECTION REQUIREMENTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

| Target Analytes  | Analytical Method           | Sample Container   | Preservative   | Holding Time |
|--|-----------------------------|--------------------|--|--------------|
| <b>Groundwater Samples</b>   |                             |                    |  |              |
| Nitrate/Nitrite  | EPA 300.0/<br>SM 4500 NO3 E | 250 mL HDPE Bottle | H <sub>2</sub> SO <sub>4</sub> to pH2,<br>Cool to <6°C | 28 Days      |
| Total Kjeldhal Nitrogen  | SM 4500 NORG C              | 250 mL HDPE Bottle | H <sub>2</sub> SO <sub>4</sub> to pH2,<br>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:<br>°C = Degree Celsius<br>ASTM = American Society for Testing and Materials<br>EPA = U.S. Environmental Protection Agency<br>HDPE = High-density polyethylene |                             |                    |  |              |

**TABLE 3. ABATEMENT PLAN MONITORING WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

| Monitoring Well                        | Date Sampled | Nitrate (mg/l) | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) | Sulfate (mg/l) |
|--|--------------|----------------|------------|-----------------|------------|----------------|
| <b>Abatement Plan Monitoring Wells</b> |              |                |            |                 |            |                |
| DAD-01                                 | 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             |
|  | 21-Mar-10    | 6.3            | <5.0       | 500             | 1,780      | NA             |
|  | NMED Split   | 9-Dec-09       | 7.5        | 1.5             | 550        | 2,010          |
| 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                                 | 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          |
| 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 WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

| Monitoring Well | Date Sampled | Nitrate (mg/l)                         | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) | Sulfate (mg/l) |       |
|-----------------|--------------|--|------------|-----------------|------------|----------------|-------|
| DAD-03          | 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      | 1100           |       |
|                 | 20-Jul-11    | <1.00                                  | 3.22       | 1,630           | 4,720      | NA             |       |
|                 | 21-Apr-11    | <0.500                                 | <2.17      | 1,870           | 5,600      | NA             |       |
|                 | 24-Jan-11    | <0.00955                               | 4.20       | 1,590           | 4,660      | NA             |       |
|                 | 16-Sep-10    | 0.217                                  | <10.0      | 1,370           | 4,320      | NA             |       |
|                 | 29-Jun-10    | <0.5                                   | 6.18       | 1,570           | 5,150      | NA             |       |
|                 | 21-Mar-10    | <10                                    | <1.0       | 2,200           | 5,620      | NA             |       |
|                 | NMED Split   | 9-Dec-09                               | <10        | <5.0            | 2,100      | 5,590          | NA    |
|                 |              | 9-Dec-09                               | <0.1       | 0.88            | 1,570      | 5,300          | 1,160 |
| 29-Aug-09       |              | <0.10                                  | <5.0       | 1,400           | 4,420      | NA             |       |
| 12-May-09       |              | <10                                    | <5.0       | 1,200           | 5,000      | NA             |       |
|                 |              |  |            |                 |            |                |       |
| DAD-04          | 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 WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

| Monitoring Well | Date Sampled | Nitrate (mg/l) | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) | Sulfate (mg/l) |
|-----------------|--------------|----------------|------------|-----------------|------------|----------------|
| DAD-05          | 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             |
|                 | NMED Split   | 21-Mar-10      | <2.0       | <1.0            | 630        | 2,340          |
| 9-Dec-09        |              | <2.0           | 1.3        | 710             | 2,420      | NA             |
| 9-Dec-09        |              | <0.1           | 0.95       | 563             | 2,290      | 362            |
| 29-Aug-09       |              | <2.0           | <2.0       | 630             | 2,310      | NA             |
| 13-May-09       |              | <2.0           | <5.0       | 640             | 2,700      | NA             |
| Duplicate       | 13-May-09    | <10            | 1.6        | 618             | 2,260      | NA             |
| DAD-06          | 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             |
|                 | NMED Split   | 21-Mar-10      | 10         | <2.0            | 390        | 1,390          |
| 9-Dec-09        |              | 10             | <1.0       | 380             | 1,380      | NA             |
| 9-Dec-09        |              | 8.6            | 0.36       | 354             | 1,440      | 262            |
| 29-Aug-09       |              | 8.2            | <5.0       | 390             | 1,260      | NA             |
| 14-May-09       |              | 11             | <5.0       | 350             | 1,300      | NA             |
| Duplicate       | 14-May-09    | 8.17           | 0.4        | 338             | 1,250      | NA             |

**TABLE 3. ABATEMENT PLAN MONITORING WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

| Monitoring Well | Date Sampled | Nitrate (mg/l) | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) | Sulfate (mg/l) |
|-----------------|--------------|----------------|------------|-----------------|------------|----------------|
| DAD-07          | 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          | 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 WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

| Monitoring Well                | Date Sampled | Nitrate (mg/l) | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) | Sulfate (mg/l) |
|--------------------------------|--------------|----------------|------------|-----------------|------------|----------------|
| DAD-09                         | 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             |
|                                | 9-Dec-09     | 26             | <5.0       | 300             | 1,190      | NA             |
|                                | NMED Split   | 9-Dec-09       | 22         | 1.6             | 228        | 1,170          |
| 29-Aug-09                      |              | 46             | <5.0       | 640             | 2,320      | NA             |
| 13-May-09                      |              | 44             | <5.0       | 740             | 2,400      | NA             |
|                                |              |                |            |                 |            |                |
| DAD-10<br>Vertical Delineation | 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             |
|                                | 9-Dec-09     | 1.4            | <1.0       | 460             | 1,360      | NA             |
|                                | NMED Split   | 9-Dec-09       | 1.5        | <0.1            | 378        | 1,340          |
| 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 WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

| Monitoring Well                                     | Date Sampled | Nitrate (mg/l) | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) | Sulfate (mg/l) |
|---|--------------|----------------|------------|-----------------|------------|----------------|
| DAD-11<br>Vertical Delineation<br>(formerly 177-03) | 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<br>Vertical Delineation                      | 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  | 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 WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

| Monitoring Well                | Date Sampled | Nitrate (mg/l) | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) | Sulfate (mg/l) |
|--------------------------------|--------------|----------------|------------|-----------------|------------|----------------|
| DAD-14                         | 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                         | 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                         | 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                         | 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            |
| DAD-18<br>Vertical Delineation | 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            |

**TABLE 3. ABATEMENT PLAN MONITORING WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

| Monitoring Well                | Date Sampled | Nitrate (mg/l)      | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) | Sulfate (mg/l) |  |
|--------------------------------|--------------|---------------------|------------|-----------------|------------|----------------|--|
| DAD-19<br>Vertical Delineation | 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                         | 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                         | 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 WELLS GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

| Monitoring Well   | Date Sampled | Nitrate (mg/l)                         | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l)   | Sulfate (mg/l) |
|---|--------------|--|------------|-----------------|--------------|----------------|
| DAD-22  | 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            |
| <b>NMWQCC Standard</b>  |              | <b>10</b>                              | <b>NA</b>  | <b>250</b>      | <b>1,000</b> | <b>600</b>     |
| <p>NOTES:<br/>           Shading indicates exceedence of NMWQCC standard<br/>           NA = Not analyzed<br/>           ND = Non detect<br/>           NMWQCC = New Mexico Water Quality Control Commission<br/>           TDS = Total dissolved solids<br/>           TKN = Total Kjeldahl Nitrogen<br/>           DAD-03 (6-29-10) Roots in sample may have resulted in a measured TKN result.</p> |              |  |            |                 |              |                |

**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) |
|---------------------------------------|--------------|---------------------|------------|-----------------|------------|
| <b>Northern Area</b>                  |              |                     |            |                 |            |
| <b>Northern Land Application Area</b> |              |                     |            |                 |            |
| 70-03                                 | 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                          | 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           |            |
| 86/340-01                             | 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           |            |

**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) |
|--|--------------|---------------------|------------|-----------------|------------|
| <b>Former Daybreak Dairy (Del Norte Dairy)</b> |              |                     |            |                 |            |
| 126-04   | 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           |            |
| 126-05   | 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   | 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-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-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           |            |
| 126-13          | 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           |            |

**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) |
|----------------------------|--------------|---------------------|------------|-----------------|------------|
| <b>Mountain View Dairy</b> |              |                     |            |                 |            |
| 70-01                      | 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           |            |
| 70-02                      | 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                      | 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      |
| <b>Buena Vista Dairy I</b> |              |                     |            |                 |            |
| 86-01                      | 26-Jan-11    | 95.4                | 16.0       | 2,300           | 6,240      |
|                            | 20-Sep-10    | 86.9                | <10.0      | 2,330           | 6,500      |
|                            | 29-Jun-10    | 67                  | <1.0       | 1,800           | 5,010      |
|                            | 25-Mar-10    | 27.0                | 0.28       | 1,770           | 4,814      |
|                            | 15-Dec-09    | 29.8                | ND         | 1,750           | 4,670      |
|                            | 1-Sep-09     | 26.1                | ND         | 1,510           | 4,474      |
|                            | 2-Jun-09     | 46.5                | 4.76       | 1,590           | 4,464      |
|                            | 4-Mar-09     | 42                  | ND         | 1,659           | 4,850      |
| 86-02                      | 26-Jan-11    | 23.4                | 2.24       | 641             | 3,110      |
|                            | 20-Sep-10    | 24.1                | <10.0      | 613             | 2,980      |
|                            | 29-Jun-10    | 21                  | 1.1        | 660             | 3,020      |
|                            | 25-Mar-10    | 16.2                | 0.7        | 740             | 2,740      |
|                            | 15-Dec-09    | 10.7                | 0.28       | 730             | 2,818      |
|                            | 1-Sep-09     | 7.2                 | ND         | 710             | 2,824      |
|                            | 2-Jun-09     | 2.95                | ND         | 700             | 2,802      |
|                            | 4-Mar-09     | 16.4                | ND         | 625             | 2,666      |



**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) |
|---|--------------|---------------------|------------|-----------------|------------|
| <b>Bright Star Dairy</b>                  |              |                     |            |                 |            |
| 340-01                                    | 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                                    | 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           |            |
| <b>Former D&amp;J Dairy (Dominguez 2)</b> |              |                     |            |                 |            |
| 42-02                                     | 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           |            |

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

| Monitoring Well | Date Sampled | Nitrate as N (mg/l) | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) |
|-----------------|--------------|---------------------|------------|-----------------|------------|
| 42-03           | 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           |            |
| 42-06           | 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           | 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           | 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           | 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           |            |
| 42-10           | 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           |            |

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

| Monitoring Well | Date Sampled | Nitrate as N (mg/l) | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) |
|-----------------|--------------|---------------------|------------|-----------------|------------|
| 42-11           | 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    | 0.470               | 2.38       | 285             | 1,300      |
|                 | 1-Oct-10     | 0.620               | <10.0      | 300             | 1,250      |
|                 | 27-Jun-10    | 3.9                 | <1.0       | 290             | 1,080      |
|                 | 6-Mar-10     | 0.51                | <0.3       | 370             | 1,300      |
| 16-Jan-10       | 0.03         | <0.3                | 370        | 1,325           |            |
| 15-Sep-09       | 0.41         | <0.3                | 320        | 1,245           |            |
| 3-Jun-09        | 3.00         | 0.7                 | 300        | 1,080           |            |
| 14-Mar-09       | 0.90         | <0.2                | 310        | 1,225           |            |
| 42-12           | 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           | 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) |
|------------------|--------------|---------------------|------------|-----------------|------------|
| <b>Dominguez</b> |              |                     |            |                 |            |
| 624-01           | 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           | 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           |            |
| 624-04           | 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           |            |

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

| Monitoring Well | Date Sampled | Nitrate as N (mg/l)                        | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) |
|-----------------|--------------|--|------------|-----------------|------------|
| 624-05          | 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           |            |
| 624-06          | 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          | 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          | 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           |            |
| <b>Gonzalez</b> |              |                     |            |                 |            |
| 177-01          | 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           |            |
| 177-02          | 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           |            |

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

| Monitoring Well | Date Sampled | Nitrate as N (mg/l) | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) |
|-----------------|--------------|---------------------|------------|-----------------|------------|
| 177-03A         | 18-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      |
| 177-04          | 4-Nov-11     | <0.500              | 3.50       | 436             | 1,850      |
|                 | 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          | 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                      | 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                     | 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           |            |
| <b>Central Area</b>         |              |                              |            |                 |            |
| <b>Buena Vista Dairy II</b> |              |                              |            |                 |            |
| 74-01                       | 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           |            |

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

| Monitoring Well | Date Sampled | Nitrate as N (mg/l) | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) |
|-----------------|--------------|---------------------|------------|-----------------|------------|
| 74-02           | 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           |            |
| 74-03           | 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           | 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                     | 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           |            |
| <b>River Valley Dairy</b> |              |                     |            |                 |            |
| 167-01                    | 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  |                     |            |                 |            |
| 167-01A                   | 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           |            |

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

| Monitoring Well | Date Sampled | Nitrate as N (mg/l)                        | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) |
|-----------------|--------------|--|------------|-----------------|------------|
| 167-02          | 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           |            |
| 167-03          | 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          | 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          | 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          | 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           |            |
| 167-07          | 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           |            |

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

| Monitoring Well      | Date Sampled | Nitrate as N (mg/l)                        | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) |
|----------------------|--------------|--|------------|-----------------|------------|
| 167-08               | 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           |            |
| 167-09               | 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           |            |
| <b>Big Sky Dairy</b> |              |  |            |                 |            |
| 833-01               | 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          | 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          | 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           |            |
| 833-04          | 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      | 1050            | 3,600      |
|                 | 19-Nov-12    | 50.0                | <1.72      | 1010            | 3,770      |
|                 | 15-Aug-12    | 32.7                | 2.66       | 783             | 2,680      |
|                 | 3-May-12     | 24.1                | <1.72      | 623             | 2,920      |
|                 | 15-Feb-12    | 49.9                | <2.17      | 942             | 3,320      |
|                 | 1-Nov-11     | 43.4                | <2.17      | 867             | 3,040      |
|                 | 21-Jul-11    | 45.3                | 2.52       | 883             | 3,410      |
|                 | 29-Apr-11    | 46.2                | <2.17      | 902             | 3,280      |
|                 | 24-Jan-11    | 40.9                | <2.05      | 755             | 3,040      |
|                 | 24-Sep-10    | <50.0               | <10.0      | 915             | 3,480      |
|                 | 28-Jun-10    | 18                  | <2.0       | 500             | 1,830      |
|                 | 23-Mar-10    | 11.3                | ND         | 560             | 1,648      |
|                 | 14-Dec-09    | 11.2                | 0.42       | 570             | 1,750      |
| 31-Aug-09       | 16.1         | ND                  | 630        | 1,986           |            |
| 1-Jun-09        | 3.03         | ND                  | 580        | 1,968           |            |
| 2-Mar-09        | 14.6         | ND                  | 600        | 1,884           |            |

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

| Monitoring Well | Date Sampled | Nitrate as N (mg/l) | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) |
|-----------------|--------------|---------------------|------------|-----------------|------------|
| 833-05          | 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           |            |
| 833-06          | 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          | 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          | 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          | 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           |            |
| 833-10          | 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           |            |

**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) |
|---------------------------------|--------------|---------------------|------------|-----------------|------------|
| <b>Sunset/Desert Land Dairy</b> |              |                     |            |                 |            |
| 257-01                          | 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           |            |
| 257-02                          | 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                          | 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                  | 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           |            |
| <b>McAnally Enterprises</b> |              |                          |            |                 |            |
| MW-4                        | 13-Mar-09    | 3.5                      | <0.5       | 2,110           | 5,686      |
| <b>Southern Area</b>        |              |                          |            |                 |            |
| <b>Del Oro Dairy</b>        |              |                          |            |                 |            |
| 692-01                      | 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           |            |
| 692-02                      | 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           |            |

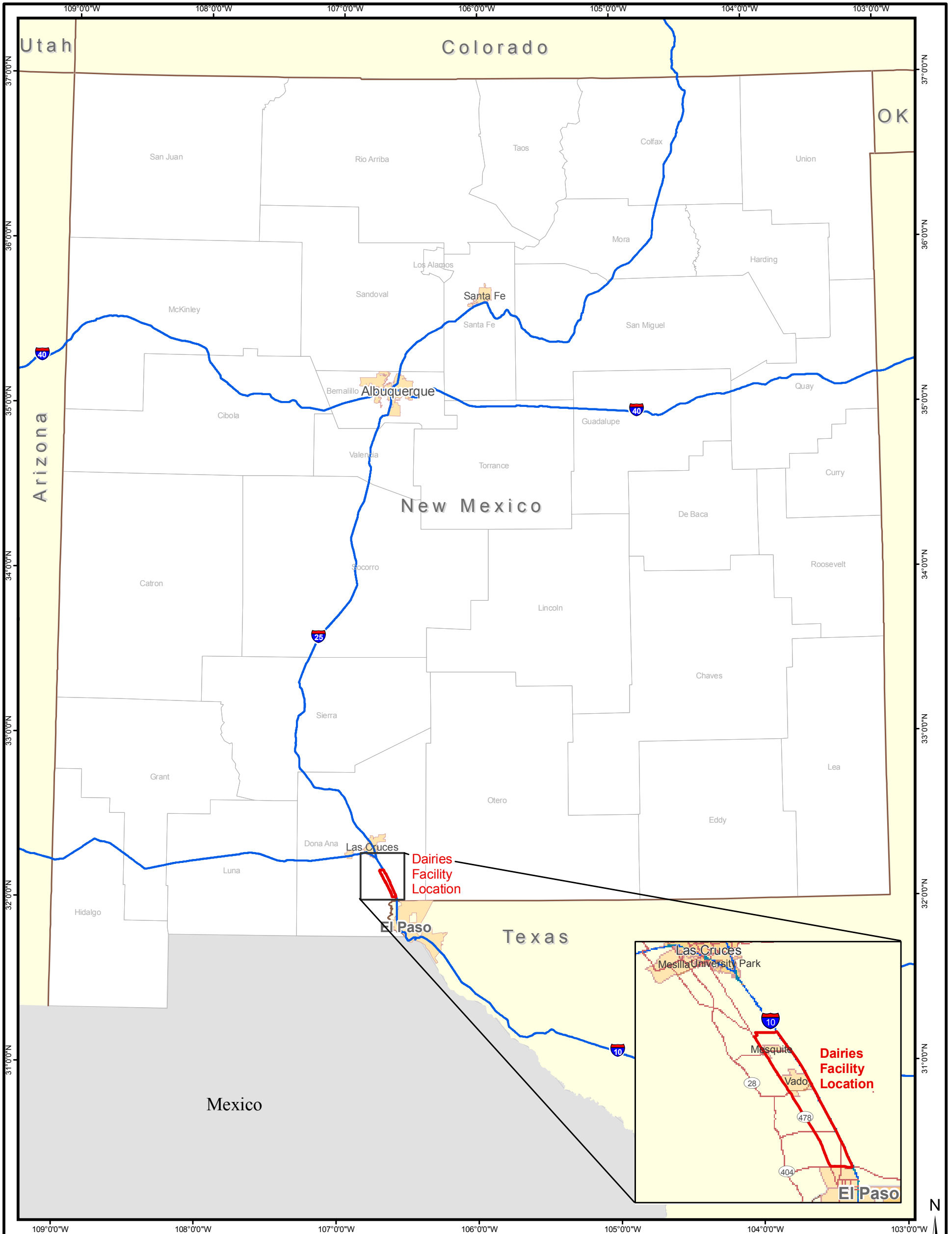
**TABLE 4. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS  
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

| Monitoring Well | Date Sampled | Nitrate as N (mg/l)        | TKN (mg/l) | Chloride (mg/l) | TDS (mg/l) |
|-----------------|--------------|----------------------------|------------|-----------------|------------|
| 692-03          | 30-Mar-10    | Plugged and Abandoned      |            |                 |            |
|                 | 4-May-09     |                            |            |                 |            |
| 692-04          | 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           |            |
| 692-05          | 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          | 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   | 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   | 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           |              |
| 692-09   | 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           |              |
| <b>NMWQCC Standard</b>                               |              | <b>10</b>           | <b>NA</b>  | <b>250</b>      | <b>1,000</b> |
| NOTES:   |              |                     |            |                 |              |
| Data suspect   |              |                     |            |                 |              |
| ND = Non-detect                                      |              |                     |            |                 |              |
| NMWQCC = New Mexico Water Quality Control Commission |              |                     |            |                 |              |
| TDS = Total dissolved solids                         |              |                     |            |                 |              |
| TKN = Total Kjeldahl nitrogen                        |              |                     |            |                 |              |
| Highlight is at or above NMWQCC Standard             |              |                     |            |                 |              |

## **FIGURES**

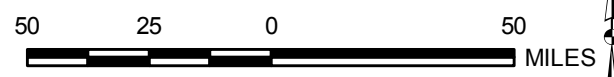


**LEGEND:**


 Facility Boundary

**REFERENCES**

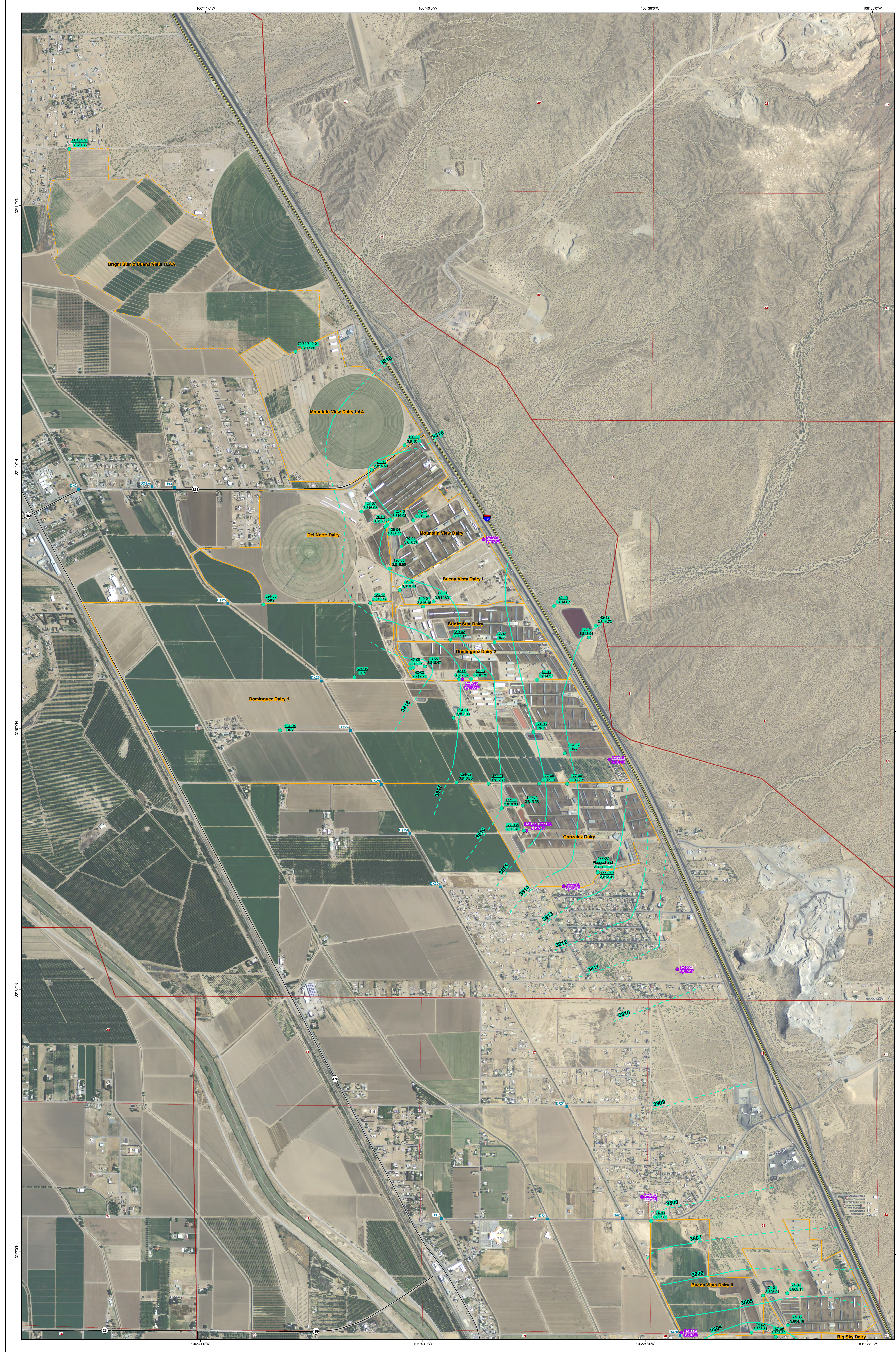
Base Data: ESRI, 2008.



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

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





- 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:  
\* = Point not used in contouring

**REFERENCES**

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

500 250 0 250 500  
 FEET  
 SCALE 1:8,000 1" = 750 FT  
 WHEN PRODUCED AT 34x44IN

N

PROJECT: DOÑA ANA DAIRIES  
 MESQUITE, NEW MEXICO

MAP: POTENTIOMETRIC SURFACE MAP,  
 NOVEMBER 2013, NORTHERN PORTION

|              |          |      |          |
|--------------|----------|------|----------|
| PROJECT No.  | 04044    | DATE | 11/20/13 |
| REVISION No. | 01       | DATE | 11/20/13 |
| DATE         | 11/20/13 | BY   | EA       |
| DATE         | 11/20/13 | BY   | EA       |
| DATE         | 11/20/13 | BY   | EA       |

**EA** ENGINEERING ASSOCIATES

FIGURE 2

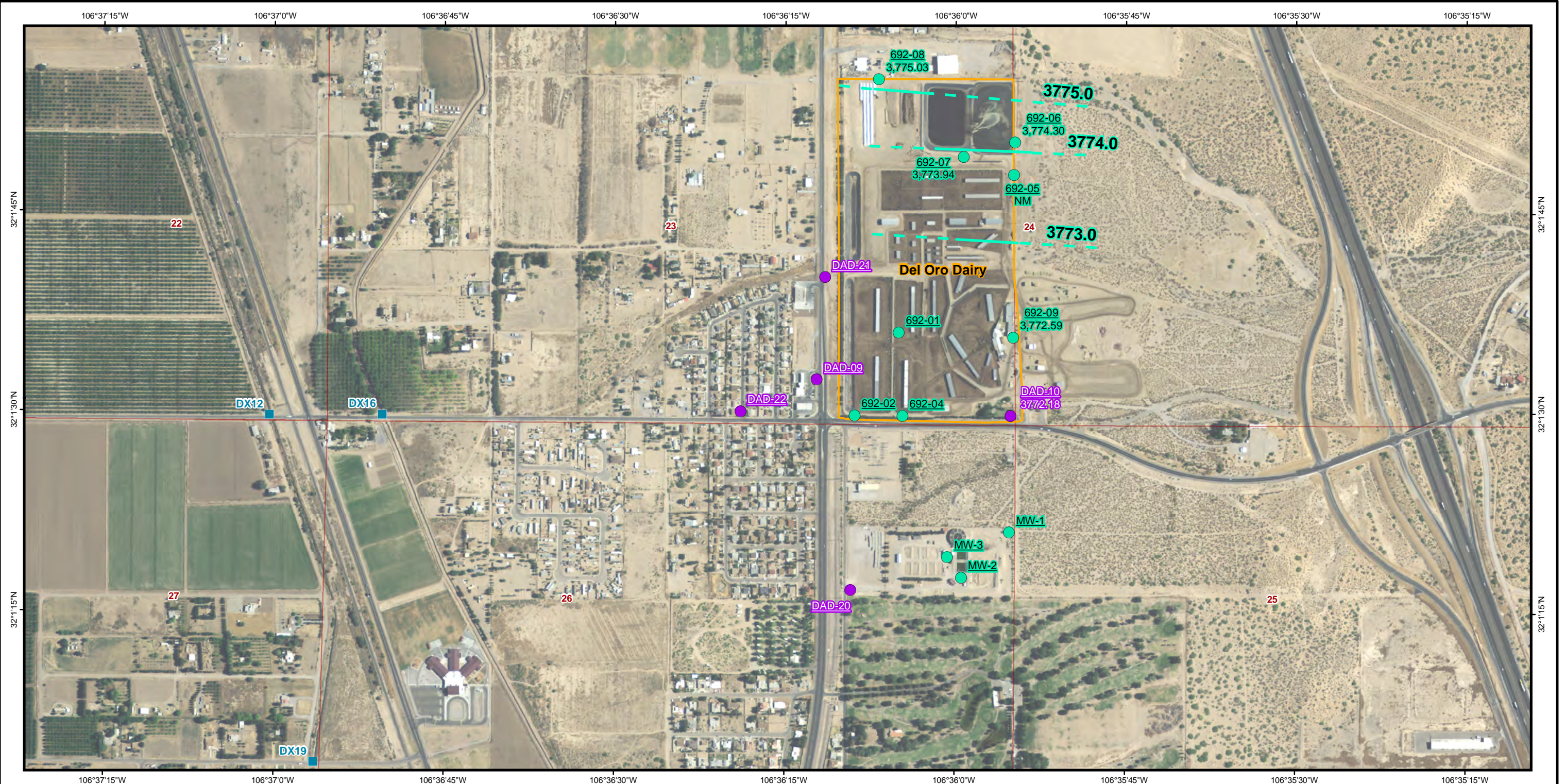
2014 001 - P:\Projects\04044\04044\_01\_Potential Surface Map - Northern Portion.dwg







2014-02-10 P:\gis\Projects\donana\Donna\_Ana\GIS\MapDocs\201312\Fig 4 SouthRegionAq\_Pot\_201312.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
- NM = Not measured

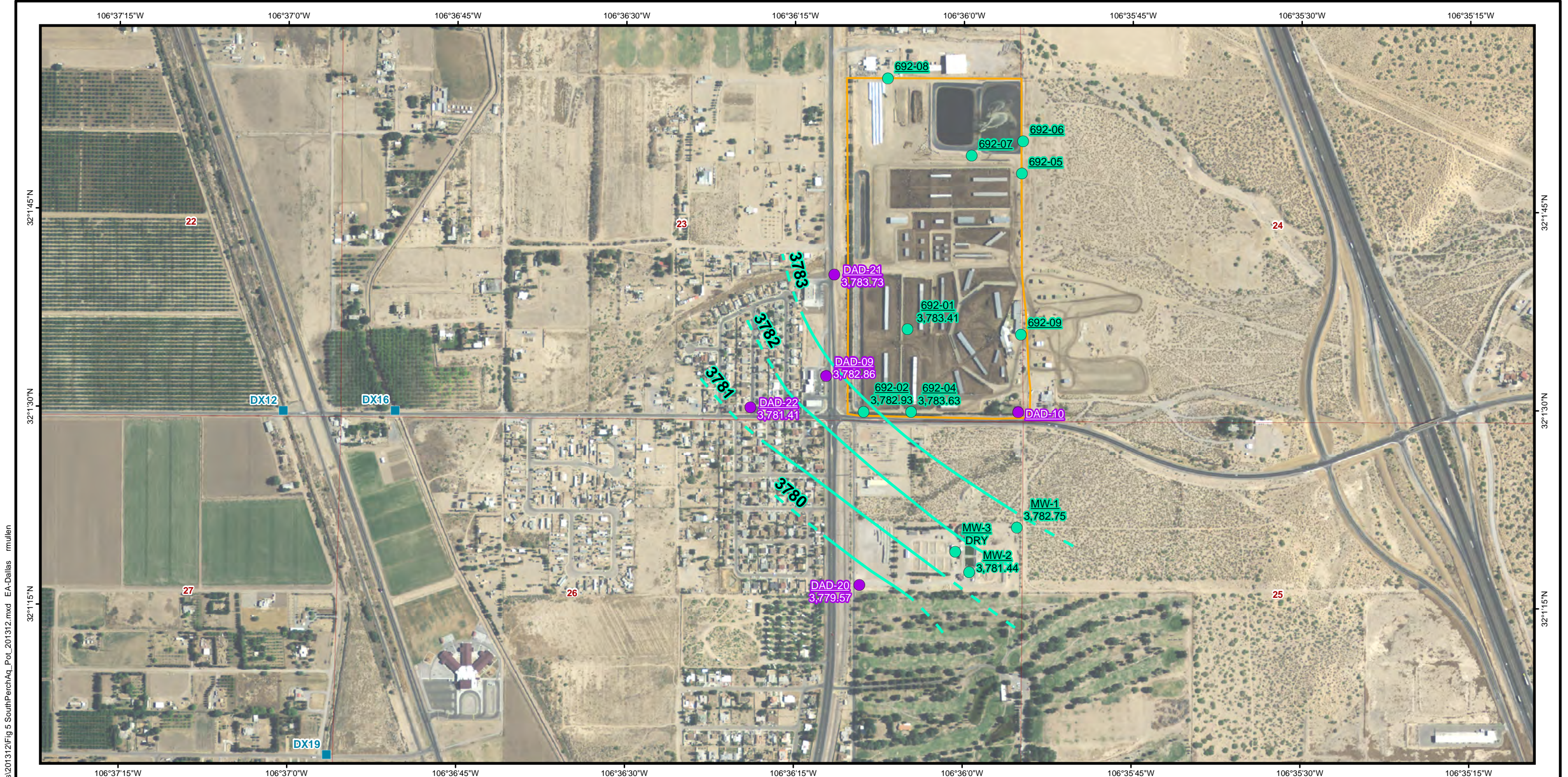
400 200 0 400  
 FEET  
 SCALE 1:9,000 1" = 750 FT  
 WHEN PRODUCED AT 11X17IN



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

|   |                     |     |                             |
|---|---------------------|-----|-----------------------------|
| <b>DOÑA ANA DAIRIES<br/>MESQUITE, NEW MEXICO</b>  |                     |     |                             |
| <b>POTENTIOMETRIC SURFACE MAP,<br/>NOVEMBER 2013, SOUTHERN PORTION<br/>REGIONAL AQUIFER</b> |                     |     |                             |
|   | PROJECT No. 1464103 |     | Fig 4 SouthRegionAq_Pot.mxd |
|   | DESIGN              | NA  | SCALE AS SHOWN              |
|   | GIS                 | RMM | REV 0                       |
|   | CHECK               |     |                             |
| REVIEW  |                     |     |                             |
|   |                     |     | <b>FIGURE 4</b>             |





- 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

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  |             |         |                            |
| <b>DOÑA ANA DAIRIES<br/>MESQUITE, NEW MEXICO</b>   |             |         |                            |
| TITLE  |             |         |                            |
| <b>POTENTIOMETRIC SURFACE MAP,<br/>NOVEMBER 2013, SOUTHERN PORTION<br/>PERCHED AQUIFER</b> |             |         |                            |
|  | PROJECT No. | 1464103 | Fig 5 SouthPerchAq_Pot.mxd |
|  | DESIGN      | NA      | SCALE AS SHOWN             |
|  | GIS         | RMM     | REV 0                      |
|  | CHECK       |         |                            |
| REVIEW   |             |         |                            |
|  |             |         | <b>FIGURE 5</b>            |

2014-01-28 P:\gis\Projects\doña ana\Dallas\_GIS\MapDocs\201312\Fig 5 SouthPerchAq\_Pot\_201312.mxd EA-Dallas rmullen

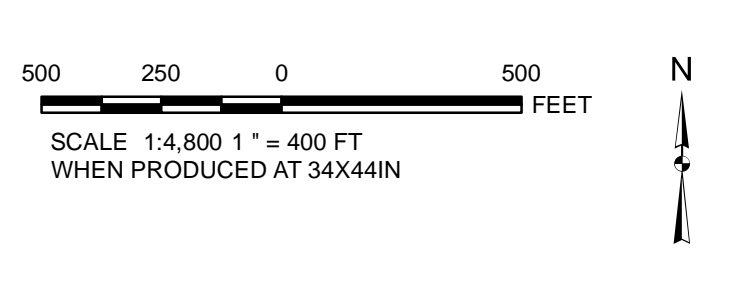




- LEGEND:**
- Interstate Highway
  - State Highway
  - Other Road
  - Land Owned by Dairies
  - Land Application on Non-Dairy Property
  - Public Land Survey System

**Notes:**  
 Units are in milligrams per liter.  
 Cl = Chloride  
 NO<sub>3</sub> = Nitrate as N  
 TDS = Total Dissolved Solids

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



**DOÑA ANA DAIRIES  
 MESQUITE, NEW MEXICO**

**GROUND WATER ANALYTICAL RESULTS,  
 NOVEMBER-JANUARY 2013,  
 NORTHERN PORTION**

|         |                  |        |                       |
|---------|------------------|--------|-----------------------|
| PROJECT | DOÑA ANA DAIRIES | DATE   | NOVEMBER-JANUARY 2013 |
| CLIENT  | DOÑA ANA DAIRIES | SCALE  | 1:4,800               |
| DATE    | NOVEMBER 2013    | FIGURE | FIGURE 6              |

2013-01-09 10:00 AM P:\Projects\2013\20130109\20130109\_01\20130109\_01.dwg (1:4,800)



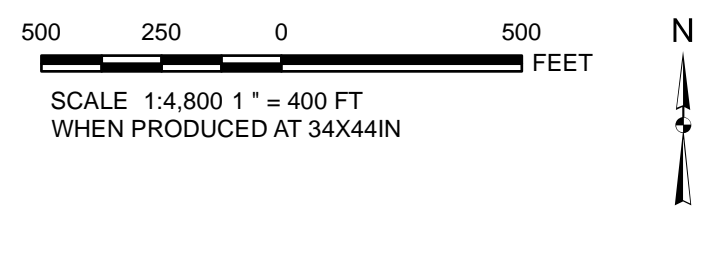


**LEGEND:**

- 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  
 NO<sub>3</sub>-N = Nitrate as N  
 TDS = Total Dissolved Solids

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



PROJECT: DOÑA ANA DAIRIES  
 MESQUITE, NEW MEXICO

GROUND WATER ANALYTICAL RESULTS  
 NOVEMBER 2013 - JANUARY 2014,  
 CENTRAL PORTION

|          |          |          |          |
|----------|----------|----------|----------|
| DATE     | NOV 2013 | NOV 2013 | NOV 2013 |
| TIME     | 10:00 AM | 10:00 AM | 10:00 AM |
| BY       | ...      | ...      | ...      |
| CHECKED  | ...      | ...      | ...      |
| APPROVED | ...      | ...      | ...      |

FIGURE 7

2014-01-28 10:00 AM P:\Projects\2013\2013-2014 Ground Water Analytical Results - Central Portion - E:\Data - 11/28/13





**LEGEND:**

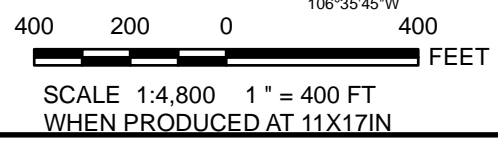
- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells
- Land Owned by Dairies
- Public Land Survey System

**Notes:**  
Units are in milligrams per liter.

Cl = Chloride  
NO<sub>3</sub> = Nitrate as N  
TDS = Total Dissolved Solids

**REFERENCES**

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



|  |                          |    |                                  |
|--|--------------------------|----|----------------------------------|
| <b>PROJECT</b>   |                          |    |                                  |
| <b>DOÑA ANA DAIRIES<br/>MESQUITE, NEW MEXICO</b>   |                          |    |                                  |
| <b>TITLE</b>   |                          |    |                                  |
| <b>GROUNDWATER ANALYTICAL RESULTS<br/>NOVEMBER 2013 - JANUARY 2014,<br/>SOUTHERN PORTION, REGIONAL AQUIFER</b> |                          |    |                                  |
|  | PROJECT No. 1464103.0006 |    | Fig8SouthRegionAq_Analytical.mxd |
|  | DESIGN                   | NA | SCALE AS SHOWN                   |
|  | GIS                      | RM | REV 0                            |
|  | CHECK                    |    |                                  |
| REVIEW   |                          |    | <b>FIGURE 8</b>                  |





**LEGEND:**

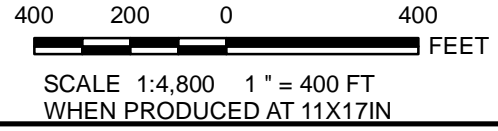
- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells; Anthony
- Land Owned by Dairies
- Public Land Survey System

**Notes:**  
 Units are in milligrams per liter.  
 Nitrate concentration for well 692-01 is suspect.

Cl = Chloride  
 NO<sub>3</sub> = Nitrate as N  
 TDS = Total Dissolved Solids

**REFERENCES**

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



|   |                          |                                     |                 |
|---|--------------------------|-------------------------------------|-----------------|
| <b>PROJECT</b>  |                          |                                     |                 |
| <b>DOÑA ANA DAIRIES<br/>MESQUITE, NEW MEXICO</b>  |                          |                                     |                 |
| <b>TITLE</b>  |                          |                                     |                 |
| <b>GROUNDWATER ANALYTICAL RESULTS<br/>NOVEMBER 2013 - JANUARY 2014,<br/>SOUTHERN PORTION, PERCHED AQUIFER</b> |                          |                                     |                 |
|   | PROJECT No. 1464103.0006 | deloro_analytical_perched200908.mxd |                 |
|   | DESIGN NA                | SCALE AS SHOWN                      | REV 0           |
|   | GIS RM                   |                                     |                 |
|   | CHECK                    |                                     |                 |
| REVIEW  |                          |                                     | <b>FIGURE 9</b> |



**APPENDIX A  
SAMPLING FIELD FORMS**



MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-01 Date Gauged 11/6/13  
 Site Big Sky Time Gauged 10:08  
 Depth to PSH 2 feet Well Diameter 4" inches  
 Depth to Water 2 feet Height of Fluid Column 0 feet  
 Total Depth 36.33 feet Volume in Well 0 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 Well is dry

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-02 Date Gauged 11/6/13  
 Site Big Sky Time Gauged 10:12  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 34.80 feet Height of Fluid Column 22.89 feet  
 Total Depth 57.69 feet Volume in Well 15.10 gallons  
 (3 Well Volumes = 45.32 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:55 11/20/13 Purged Method Baiter

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 10:55 | 9               |                       | 20.4      | 3784        | 7.81 | 240      | 2899       |
| 11:15 | 9               |                       | 20.1      | 3784        | 7.84 | 236      | 2895       |
| 11:29 | 9               |                       | 20.0      | 3767        | 7.82 | 233      | 2884       |
| 12:45 | 9               |                       | 19.9      | 3751        | 7.90 | 230      | 2880       |
| 12:02 | 9               |                       | 19.5      | 3744        | 7.89 | 229      | 2875       |
| 12:10 | 5               |                       | 19.4      | 3743        | 7.92 | 229      | 2872       |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 45.5 gals Field Measurements stabilized within ± 10%       
 Time/Date Sampled 12:13 11/20/13 Purged/Sampled By [Signature]  
 Sample Method Baiter  
 Requested Analyses       
 Comments/Observations

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-03 Date Gauged 11/6/13  
 Site Big Sky Time Gauged 10:25

Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 0 feet Height of Fluid Column 0 feet  
 Total Depth 62.78 feet Volume in Well 0 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 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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-04 Date Gauged 11/6/13  
 Site Big Sky Time Gauged 10:20

Depth to PSH 2 feet Well Diameter 4" inches  
 Depth to Water 43.59 feet Height of Fluid Column 10.13 feet  
 Total Depth 53.72 feet Volume in Well 6.48 gallons  
 (3 Well Volumes = 20.05 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:39 11/20/13 Purged Method Boiler

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 9:39  | 3.0             |                       | 20.1      | 3971        | 7.34 | 257      | 3045       |
| 9:49  | 3.0             |                       | 20.0      | 3934        | 7.31 | 253      | 3037       |
| 9:59  | 3.0             |                       | 20.2      | 3928        | 7.26 | 249      | 3024       |
| 10:10 | 3.0             |                       | 20.2      | 3919        | 7.28 | 247      | 3031       |
| 10:20 | 3.0             |                       | 20.1      | 3919        | 7.23 | 245      | 3025       |
| 10:30 | 3.0             |                       | 20.0      | 3915        | 7.21 | 246      | 3020       |
| 10:45 | 2.0             |                       | 20.0      | 3913        | 7.20 | 245      | 3019       |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 20 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 10:47 11/20/13 Purged/Sampled By [Signature]  
 Sample Method Boiler  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-05 Date Gauged 11-25-13  
 Site BIG SKY Time Gauged 9:15

Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches  
 Depth to Water 65.35 feet Height of Fluid Column 8.5 feet  
 Total Depth 73.85 feet Volume in Well 5.61 gallons  
 (3 Well Volumes = 16.83 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:22 11-25-13 Purged Method BAIL

| Time                 | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|----------------------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| <del>9:43</del> 9:43 | 9               | 16 9                  | 19.0      | 4599        | 7.18 | 175      | 3691       |
| 9:45                 | 1               | 10                    | 19.0      | 4461        | 7.03 | 175      | 3543       |
| 9:48                 | 1               | 11                    | 19.1      | 4435        | 6.95 | 173      | 3459       |
| 9:50                 | 1               | 12                    | 19.1      | 4436        | 6.86 | 173      | 3447       |
| 9:52                 | 1               | 13                    | 18.9      | 4439        | 6.81 | 176      | 3465       |
| 9:54                 | 1               | 14                    | 18.9      | 4452        | 6.78 | 176      | 3473       |
| 9:56                 | 1               | 15                    | 19.0      | 4458        | 6.75 | 176      | 3481       |
| 9:58                 | 1               | 16                    | 19.0      | 4451        | 6.72 | 177      | 3485       |

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

Time/Date Sampled 9:58 11-25-13 Purged/Sampled By JU

Sample Method BAIL

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-06 Date Gauged 11/6/13  
 Site Big Sky Time Gauged 10:31

Depth to PSH 2 feet Well Diameter 4" inches  
 Depth to Water 75.12 feet Height of Fluid Column 9.83 feet  
 Total Depth 84.95 feet Volume in Well 6.48 gallons  
 (3 Well Volumes = 19.46 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:47 11/21/13 Purged Method Bailin

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 13:50 | 3.0             |                       | 22.9      | 4503        | 6.93 | 212      | 3461       |
| 13:57 | 3.0             |                       | 22.2      | 4499        | 6.90 | 212      | 3464       |
| 14:05 | 3.0             |                       | 22.6      | 4499        | 6.89 | 214      | 3469       |
| 14:13 | 3.0             |                       | 22.1      | 4492        | 6.87 | 217      | 3481       |
| 14:21 | 3.0             |                       | 22.4      | 4489        | 6.82 | 215      | 3488       |
| 14:29 | 3.0             |                       | 22.0      | 4490        | 6.80 | 217      | 3489       |
| 14:31 | 1.5             |                       | 22.1      | 4491        | 6.79 | 218      | 3490       |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 19.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 14:35 11/21/13 Purged/Sampled By [Signature]  
 Sample Method Bailin  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-07 Date Gauged 11/6/13  
 Site Big Sky Time Gauged 1108  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 66.62 feet Height of Fluid Column 12.3 feet  
 Total Depth 73.42 feet Volume in Well 8.11 gallons  
 (3 Well Volumes = 24.35 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:10 11/21/13 Purged Method Bailor

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 8:10 | 4.0             |                       | 20.7      | 6911        | 7.38 | 257      | 5421       |
| 8:20 | 4.0             |                       | 20.2      | 6680        | 7.47 | 252      | 5390       |
| 8:30 | 4.0             |                       | 20.7      | 6649        | 7.40 | 249      | 5381       |
| 8:40 | 4.0             |                       | 20.5      | 6622        | 7.37 | 248      | 5362       |
| 8:50 | 4.0             |                       | 19.8      | 6598        | 7.32 | 240      | 5340       |
| 9:00 | 4.0             |                       | 20.1      | 6589        | 7.31 | 239      | 5339       |
| 9:05 | .5              |                       | 19.9      | 6587        | 7.29 | 237      | 5327       |
|      |                 |                       |           |             |      |          |            |

Actual Purge Volume 24.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 9:08 11/21/13 Purged/Sampled By [Signature]  
 Sample Method Bailor  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-08 Date Gauged 11/6/13  
 Site Big Sky Time Gauged 10:51  
 Depth to PSH 2 feet Well Diameter 4" inches  
 Depth to Water 60.79 feet Height of Fluid Column 12.07 feet  
 Total Depth 72.86 feet Volume in Well 7.96 gallons  
 (3 Well Volumes = 23.89 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:43 11/21/13 Purged Method Benton

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 12:45 | 4.0             |                       | 22.8      | 4563        | 7.25 | 237      | 3559       |
| 12:55 | 4.0             |                       | 21.9      | 4562        | 7.27 | 235      | 3560       |
| 13:05 | 4.0             |                       | 22.7      | 4558        | 7.24 | 237      | 3558       |
| 13:15 | 4.0             |                       | 22.6      | 4556        | 7.21 | 234      | 3557       |
| 13:25 | 4.0             |                       | 22.3      | 4554        | 7.19 | 234      | 3554       |
| 13:35 | 4.0             |                       | 22.1      | 4552        | 7.17 | 231      | 3552       |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 24 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 13:38 11/21/13 Purged/Sampled By [Signature]  
 Sample Method Benton  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-09 Date Gauged 11/20/13  
 Site Big Sky Time Gauged 11:40  
 Depth to PSH 2 feet Well Diameter 4" inches  
 Depth to Water 24.79 feet Height of Fluid Column 14.54 feet  
 Total Depth 39.33 feet Volume in Well 9.59 gallons  
 (3 Well Volumes = 28.78 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 14:12 11/20/13 Purged Method Bailon

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 14:13 | 5               |                       | 21.8      | 6609        | 6.85 | 2.37     | 5319       |
| 14:28 | 5               |                       | 20.9      | 6619        | 6.92 | 2.33     | 5318       |
| 14:37 | 5               |                       | 20.9      | 6622        | 6.99 | 2.31     | 5321       |
| 14:43 | 5               |                       | 20.7      | 6620        | 7.26 | 2.27     | 5325       |
| 14:51 | 5               |                       | 19.9      | 6621        | 7.22 | 2.27     | 5326       |
| 14:54 | 3.5             |                       | 19.9      | 6619        | 7.20 | 2.25     | 5328       |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 28.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 14:58 11/20/13 Purged/Sampled By [Signature]  
 Sample Method Bailon  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

Well Casing Volumes

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 833-10 Date Gauged 11/6/13  
 Site Big Sky Time Gauged 11:31  
 Depth to PSH 2 feet Well Diameter 4" inches  
 Depth to Water 21.76 feet Height of Fluid Column 15.36 feet  
 Total Depth 37.12 feet Volume in Well 10.13 gallons  
 (3 Well Volumes = 30.41 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:10 11/20/13 Purged Method \_\_\_\_\_

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 13:10 | 5.0             |                       | 20.5      | 4049        | 7.09 | 235      | 3122       |
| 13:21 | 5.0             |                       | 19.9      | 4051        | 6.97 | 233      | 3123       |
| 13:32 | 5.0             |                       | 20.8      | 4054        | 6.82 | 232      | 3124       |
| 13:40 | 5.0             |                       | 20.4      | 4057        | 6.77 | 231      | 3125       |
| 13:51 | 5.0             |                       | 20.2      | 4054        | 6.75 | 232      | 3128       |
| 14:02 | 5.0             |                       | 19.9      | 4053        | 6.78 | 232      | 3126       |
| 14:05 | 1.0             |                       | 19.8      | 4052        | 6.78 | 233      | 3125       |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 31.0 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 14:08 11/20/13 Purged/Sampled By [Signature]  
 Sample Method \_\_\_\_\_  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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

**TraceAnalysis, Inc.**  
 155 McCulcheon, Ste. H El Paso, TX 79932  
 Tel (915) 585-9443  
 Fax (915) 585-4944

Company Name: \_\_\_\_\_  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip) \_\_\_\_\_  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: \_\_\_\_\_  
 Victor Ayala  
 Invoice to (if different from above): \_\_\_\_\_  
 Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048  
 Project #: 429550  
 Project Name: George Segura 575-233-3620  
 Big Sky Dairy  
 Sampler Signature: *[Signature]*

| LAB # | Field Code | # Containers | Volume/Amount | MATRIX |     |        |     | PRESERVATIVE METHOD |                                |      |     | SAMPLING |       |      |  |
|-------|------------|--------------|---------------|--------|-----|--------|-----|---------------------|--------------------------------|------|-----|----------|-------|------|--|
|       |            |              |               | WATER  | AIR | SLUDGE | HCl | HNO <sub>3</sub>    | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICF | NONE     | DATE  | TIME |  |
| 833-1 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-1 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-2 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-2 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-3 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-3 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-4 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-4 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-5 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     | 11-25-13 | 09:50 |      |  |
| 833-5 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     | 11-25-13 | 09:50 |      |  |
| 833-6 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-6 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-7 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-7 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-8 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |
| 833-8 |            | 1            |               | X      |     |        |     | X                   | X                              | X    |     |          |       |      |  |

ANALYSIS REQUEST

|  |   |
|--|---|
| TX 1005 Extended (C35)                           |   |
| TPH 418.1 / TX1005                               |   |
| 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   |   |

Remarks: ICE  
 TKN @ Lubbock  
 TPS, Cl<sub>2</sub>, NO<sub>3</sub> @ E.P.

Lab Use Only  
 Intact Y / N  
 Headspace Y / N  
 Temp \_\_\_\_\_  
 Log-in Review \_\_\_\_\_

Relinquished By: *[Signature]* Date: 11-25-13 Time: 14:25  
 Received By: *[Signature]* Date: 11-25-13 Time: 14:25

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Dry Weight Basis Required \_\_\_\_\_  
 TRRP Report Required \_\_\_\_\_

LAB Order ID # \_\_\_\_\_

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

**TraceAnalysis, Inc.**  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

Company Name: D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas. 79907  
 Contact Person: Victor Ayala  
 Invoice to (if different from above): Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048  
 Project #: \_\_\_\_\_  
 Project Name: George Segura 575-233-3620  
 Big Sky Dairy  
 Sampler Signature: \_\_\_\_\_

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

| LAB # | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | SAMPLING |      | TIME     |       |      |
|-------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|------|----------|-------|------|
|       |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE |          | DATE  | TIME |
| 833-1 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |      |
| 833-2 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |      |
| 833-2 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |      |
| 833-3 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |      |
| 833-3 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |      |
| 833-4 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |      |
| 833-5 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |      |
| 833-5 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |      |
| 833-6 |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/21/13 | 14:35 |      |
| 833-6 |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/21/13 | 14:35 |      |
| 833-7 |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/21/13 | 9:08  |      |
| 833-7 |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/21/13 | 9:08  |      |
| 833-8 |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/21/13 | 13:38 |      |
| 833-8 |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/21/13 | 13:38 |      |

ANALYSIS REQUEST

|  |   |
|--|---|
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | X |
| Nitrates EPA 300                                 | X |
| Total Kjeldahl Nitrogen SM 4500 NORG C           | X |
| Chloride EPA 300.0                               | X |
| Total Dissolved Solids SM 2540 C MOD             | X |

Remarks: /CE  
 NOT, CH TDS @ EP  
 TKN @ Leback  
 Dry Weight Basis Required  
 TRRP Report Required

Lab Use Only  
 Intact  N  
 Headspace Y / N  
 Temp 18.2 5/6  
 Log-in Review \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: 11/21/13 14:59  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_

6

# TraceAnalysis, Inc.

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

Project Name: **George Segura 575-233-3620**  
 Project #: **Big Sky Dairy**  
 Sampler Signature:   
 Project Location (including state): **Big Sky Dairy, 17800 Stern Drive, Mesquite, NM**

| LAB #      | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                                |      |     |      | Sampling |      |         |       |
|------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|--------------------------------|------|-----|------|----------|------|---------|-------|
|            |            |              |               | WATER  | SOIL | AIR | SLUDGE | HNO <sub>3</sub>    | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME |         |       |
| 833-9      |            | 1            | 250 ml        | X      |      |     |        | X                   |                                |      |     | X    |          |      | 4/20/13 | 14:58 |
| 833-9      |            | 1            | 250 ml        | X      |      |     |        | X                   |                                |      |     | X    |          |      | 4/20/13 | 14:58 |
| 833-10     |            | 1            | 250 ml        | X      |      |     |        | X                   |                                |      |     | X    |          |      | 4/20/13 | 14:08 |
| 833-10     |            | 1            | 250 ml        | X      |      |     |        | X                   |                                |      |     | X    |          |      | 4/20/13 | 14:08 |
| 833 Lagoon |            | 1            | 250 ml        | X      |      |     |        | X                   |                                |      |     | X    |          |      | 4/26/13 | 15:04 |
| 833 Lagoon |            | 1            | 250 ml        | X      |      |     |        | X                   |                                |      |     | X    |          |      | 4/26/13 | 15:04 |

| LAB Order ID # | 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 | Total Kjeldahl Nitrogen SM 4500 NORGC | Chloride EPA 300.0 | Total Dissolved Solids SM 2540 C MOD | ANALYSIS REQUEST |      |
|----------------|----------------|----------------|--------------------|------------------------|-----------|-------------------------------|--|------------------|---------------------------------------|--------------------|--------------------------------------|------------------|------|
|                |                |                |                    |                        |           |                               |  |                  |                                       |                    |                                      | Turn Around Time | Hold |
|                |                |                |                    |                        |           |                               |  | X                | X                                     | X                  | X                                    |                  |      |
|                |                |                |                    |                        |           |                               |  | X                | X                                     | X                  | X                                    |                  |      |
|                |                |                |                    |                        |           |                               |  | X                | X                                     | X                  | X                                    |                  |      |
|                |                |                |                    |                        |           |                               |  | X                | X                                     | X                  | X                                    |                  |      |
|                |                |                |                    |                        |           |                               |  | X                | X                                     | X                  | X                                    |                  |      |

Requested By: *[Signature]* Date: 4/20/13 Time: 15:08  
 Received By: *[Signature]* Date: 4/20/13 Time: 15:08  
 Requested By: *[Signature]* Date: 4/20/13 Time: 15:08  
 Received at Laboratory By: *[Signature]* Date: 4/20/13 Time: 15:08

Lab Use Only  
 Intact  Y  N  
 Headspace  Y  N  
 Temp  2/2    
 Log-in Review    
 Remarks: *Cl, NO3, T-15*  
 Dry Weight Basis Required   
 TRRP Report Required  *[Signature]*





ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 340-01 Date Gauged ~~11-11-13~~ 11-11-13  
 Site BRIGHT STAR Time Gauged ~~11:35~~ 1:35

Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 42.37 feet Height of Fluid Column 5.53 feet  
 Total Depth 47.9 feet Volume in Well 3.64 gallons  
 (3 Well Volumes = 10.94 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1:39 11-11-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TPS DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 1:45 | 3               | 3                     | 22.4      | 4638        | 7.62 | 283      | 3600          |
| 1:47 | 1               | 4                     | 21.8      | 4407        | 7.12 | 280      | 3419          |
| 1:49 | 1               | 5                     | 21.6      | 4222        | 7.08 | 286      | 3264          |
| 1:50 | 1               | 6                     | 21.5      | 4230        | 7.04 | 289      | 3267          |
| 1:52 | 1               | 7                     | 21.4      | 4225        | 7.02 | 292      | 3256          |
| 1:53 | 1               | 8                     | 21.4      | 4223        | 6.98 | 294      | 3266          |
| 1:55 | 1               | 9                     | 21.4      | 4226        | 6.92 | 294      | 3254          |
| 1:57 | 1               | 10                    | 21.3      | 4224        | 6.97 | 295      | 3256          |

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

Time/Date Sampled 1:57 11-11-13 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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 346-02 Date Gauged 11-11-13  
 Site BRIGHT STAR Time Gauged 2:19  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 53.59 feet Height of Fluid Column 3.11 feet  
 Total Depth 56.7 feet Volume in Well 2.05 gallons  
 (3 Well Volumes = 6.15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 2:24 11-11-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 2:27 | 1               | 1                     | 22.4      | 4878        | 8.58 | 244      | 3824          |
| 2:29 | 1               | 2                     | 21.8      | 4851        | 7.90 | 257      | 3904          |
| 2:31 | 1               | 3                     | 21.9      | 4851        | 7.88 | 255      | 3887          |
| 2:33 | 1               | 4                     | 21.8      | 4848        | 7.85 | 254      | 3883          |
| 2:34 | 1               | 5                     | 21.7      | 4849        | 7.85 | 252      | 3888          |
| 2:38 | 1               | 6                     | 21.6      | 4851        | 7.83 | 251      | 3882          |
|      |                 |                       |           |             |      |          |               |
|      |                 |                       |           |             |      |          |               |

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

Time/Date Sampled 2:38 11-11-13 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 70-86/340-1 Date Gauged 11-11-13  
 Site BRIGHT STAR Time Gauged 12:17

Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 49.36 feet Height of Fluid Column 18.33 feet  
 Total Depth 67.69 feet Volume in Well 17.09 gallons  
 (3 Well Volumes = 36.27 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:23 11-11-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 1:08 | 29              | 29                    | 22.1      | 7666        | 7.66 | 292      | 5642       |
| 1:10 | 1               | 30                    | 21.5      | 7056        | 6.76 | 296      | 5704       |
| 1:11 | 1               | 31                    | 21.0      | 7088        | 6.66 | 296      | 5709       |
| 1:13 | 1               | 32                    | 21.3      | 7062        | 6.51 | 294      | 5723       |
| 1:15 | 1               | 33                    | 21.1      | 7669        | 6.47 | 295      | 5727       |
| 1:17 | 1               | 34                    | 21.1      | 7073        | 6.45 | 294      | 5738       |
| 1:19 | 1               | 35                    | 21.0      | 7067        | 6.44 | 294      | 5735       |
| 1:22 | 1               | 36                    | 21.0      | 7062        | 6.42 | 295      | 5730       |

Actual Purge Volume 36 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 1:22 11-11-13 Purged/Sampled By JL

Sample Method BAIL

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 86/340-01 Date Gauged 11-11-13  
 Site BRIGHT STAR Time Gauged 11:10

Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 55.91 feet Height of Fluid Column 15.59 feet  
 Total Depth 71.5 feet Volume in Well 10.28 gallons  
 (3 Well Volumes = 30 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11-13 11-13-13 Purged Method BAIL

| Time                      | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|---------------------------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| <del>11:48</del><br>11:48 | 23              | 23                    | 21.9      | 4514        | 4.95 | 390      | 3561          |
| 11:51                     | 1               | 24                    | 21.2      | 4386        | 5.94 | 333      | 3464          |
| 11:53                     | 1               | 25                    | 21.0      | 4346        | 6.35 | 329      | 3371          |
| 11:55                     | 1               | 26                    | 21.0      | 4358        | 6.32 | 323      | 3359          |
| 11:57                     | 1               | 27                    | 20.4      | 4350        | 6.58 | 327      | 3353          |
| 11:59                     | 1               | 28                    | 20.1      | 4337        | 6.48 | 325      | 3358          |
| 12:02                     | 1               | 29                    | 20.2      | 4346        | 6.48 | 324      | 3376          |
| 12:04                     | 1               | 30                    | 20.2      | 4353        | 6.47 | 321      | 3384          |

Actual Purge Volume 30 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:04 11-11-13 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

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 585-3443  
Fax (915) 585-4944  
1 (888) 588-3443

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

Company Name: D. H. PATEL - ENVIRONMENTAL Phone #: 915-859-8150  
 Address: 1221 TONGUE TRAIL Fax #:  
 Contact Person: VICTOR AVILA E-mail: VAYALAGIHPUMP.COM  
 Invoice to: BRIGHT STAR DIVE, 13250 STEIN DRIVE, ARLINGTONE, TEXAS  
 (If different from above) PO BOX 167, MCKINNEY, TEXAS 75069 Project Name: BRIGHT STAR  
 Project #: 421546 Sampler Signature: Quif

| LAB #<br>(LAB USE ONLY) | FIELD CODE      | # CONTAINERS | Volume / Amount | MATRIX |      |     | PRESERVATIVE METHOD |     |                  |                                |      | SAMPLING |      | TIME  | Turn Around Time if different from standard |      |                             |
|-------------------------|-----------------|--------------|-----------------|--------|------|-----|---------------------|-----|------------------|--------------------------------|------|----------|------|-------|---|------|-----------------------------|
|                         |                 |              |                 | WATER  | SOIL | AIR | SLUDGE              | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE |       |   | DATE | TIME                        |
|                         | 840 / 340-01    | 1            |                 |        |      |     |                     | X   |                  |                                | X    |          |      | 11-11 | 12:04                                       | X    | TKN CM 4500 NITRATE EPA 300 |
|                         | 840 / 340-01    | 1            |                 |        |      |     |                     | X   |                  |                                | X    |          |      | 12:04 | 12:04                                       | X    | CHLORINE EPA 300            |
|                         | 70-840 / 340-01 | 1            |                 |        |      |     |                     | X   |                  |                                | X    |          |      | 13-22 | 13-22                                       | X    | TKN CM 4500 NITRATE EPA 300 |
|                         | 70-840 / 340-01 | 1            |                 |        |      |     |                     | X   |                  |                                | X    |          |      | 13-22 | 13-22                                       | X    | TKN CM 4500 NITRATE EPA 300 |
|                         | 340-01          | 1            |                 |        |      |     |                     | X   |                  |                                | X    |          |      | 13-27 | 13-27                                       | X    | TKN CM 4500 NITRATE EPA 300 |
|                         | 340-01          | 1            |                 |        |      |     |                     | X   |                  |                                | X    |          |      | 15-57 | 15-57                                       | X    | TKN CM 4500 NITRATE EPA 300 |
|                         | 340-02          | 1            |                 |        |      |     |                     | X   |                  |                                | X    |          |      | 14-21 | 14-21                                       | X    | TKN CM 4500 NITRATE EPA 300 |
|                         | 340-02          | 1            |                 |        |      |     |                     | X   |                  |                                | X    |          |      | 14-21 | 14-21                                       | X    | TKN CM 4500 NITRATE EPA 300 |
|                         | LACRIN          | 1            |                 |        |      |     |                     | X   |                  |                                | X    |          |      | 14-04 | 14-04                                       | X    | TKN CM 4500 NITRATE EPA 300 |
|                         | LACRIN          | 1            |                 |        |      |     |                     | X   |                  |                                | X    |          |      | 11-06 | 11-06                                       | X    | TKN CM 4500 NITRATE EPA 300 |

## 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 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"/> | PCBs 8082 / 608                                 |
| <input type="checkbox"/> | Pesticides 8081 / 608                           |
| <input type="checkbox"/> | BOD, TSS, pH                                    |
| <input type="checkbox"/> | Moisture Content                                |
| <input type="checkbox"/> | Cl, F1, S04, NO3, NO2, Alkalinity               |
| <input type="checkbox"/> | Na, Ca, Mg, K, TDS, EC                          |
| <input type="checkbox"/> | NITRATE EPA 300                                 |
| <input type="checkbox"/> | TKN CM 4500 NITRATE                             |
| <input type="checkbox"/> | CHLORINE EPA 300                                |
| <input type="checkbox"/> | TDS 2540 C                                      |

Relinquished by:      Company:      Date: 11/11/13 Time: 3:30  
 Received by:      Company:      Date:      Time:       
 INST OBS COR INST OBS COR INST OBS COR  
 INST OBS COR INST OBS COR INST OBS COR

REMARKS:     

LAB USE ONLY  
 Intact Y/N  
 Headspace Y/N/NA  
 Log-in-Review       
 Dry Weight Basis Required  
 TRRP Report Required  
 Check If Special Reporting Limits Are Needed

Carrier #

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-01 Date Gauged 11-19-13  
 Site BUENA VISTA 11 Time Gauged 11:50  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches  
 Depth to Water 36.03 feet Height of Fluid Column 9.17 feet  
 Total Depth 45.2 feet Volume in Well 6.05 gallons  
<sup>3</sup>  
 (~~40~~ Well Volumes = 18 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:55 11-19-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 12:10 | 11              | 11                    | 23.1      | 5121        | 7.96 | 66       | 4027       |
| 12:12 | 1               | 12                    | 22.6      | 5098        | 7.64 | 76       | 4011       |
| 12:14 | 1               | 13                    | 22.1      | 5081        | 7.49 | 82       | 3999       |
| 12:16 | 1               | 14                    | 22.1      | 5073        | 7.34 | 87       | 3982       |
| 12:18 | 1               | 15                    | 22.2      | 5076        | 7.25 | 91       | 3988       |
| 12:20 | 1               | 16                    | 21.9      | 5080        | 7.19 | 96       | 3991       |
| 12:21 | 1               | 17                    | 21.7      | 5082        | 7.16 | 99       | 3993       |
| 12:23 | 1               | 18                    | 21.7      | 5086        | 7.12 | 101      | 3996       |

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

Time/Date Sampled 12:23 11-19-13 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 E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 74-02 Date Gauged 11/6/13  
 Site Buena Vista II Time Gauged 8:20

Depth to PSH 2 feet Well Diameter 4" inches  
 Depth to Water 17.07 feet Height of Fluid Column 3.02 feet  
 Total Depth 20.09 feet Volume in Well 1.99 gallons  
 (3 Well Volumes = 5.97 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:35 11/20/13 Purged Method Bailer

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 8:39 | 1.0             |                       | 20.2      | 3498        | 7.47 | 288      | 2889       |
| 8:43 | 1.0             |                       | 20.1      | 3684        | 7.44 | 286      | 2893       |
| 8:47 | 1.0             |                       | 20.0      | 3740        | 7.37 | 280      | 2897       |
| 8:51 | 1.0             |                       | 19.9      | 3778        | 7.17 | 267      | 2901       |
| 8:54 | 1.0             |                       | 19.8      | 3785        | 9.14 | 244      | 2899       |
| 8:58 | 1.0             |                       | 19.9      | 3887        | 9.10 | 202      | 2900       |
|      |                 |                       |           |             |      |          |            |
|      |                 |                       |           |             |      |          |            |

Actual Purge Volume 6.0 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 9:01 11/20/13 Purged/Sampled By [Signature]  
 Sample Method Bailer  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 74-03 Date Gauged 11/6/13  
 Site Buena Vista Time Gauged 7:34

Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 15.53 feet Height of Fluid Column 4.63 feet  
 Total Depth 20.16 feet Volume in Well 3.05 gallons  
 (3 Well Volumes = 9.16 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:35 11/20/16 Purged Method Baker

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 7:37 | 1.5             |                       | 21.5      | 5999        | 6.28 | 294      | 4848       |
| 7:43 | 1.5             |                       | 20.4      | 5948        | 6.30 | 288      | 4829       |
| 7:50 | 1.5             |                       | 20.9      | 5953        | 6.29 | 287      | 4817       |
| 7:57 | 1.5             |                       | 21.3      | 5976        | 6.30 | 285      | 4814       |
| 8:04 | 1.5             |                       | 20.2      | 5990        | 6.31 | 284      | 4809       |
| 8:12 | 1.5             |                       | 19.9      | 5992        | 6.32 | 282      | 4804       |
| 8:16 | .5              |                       | 19.8      | 5990        | 6.33 | 283      | 4807       |
|      |                 |                       |           |             |      |          |            |

Actual Purge Volume 9.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 8:22 11/20/13 Purged/Sampled By [Signature]  
 Sample Method Baker  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

Well Casing Volumes  
 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 11-19-13  
 Site BUENA VISTA II Time Gauged 12:30  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 48.11 feet Height of Fluid Column 10.04 feet  
 Total Depth 58.15 feet Volume in Well 6.62 gallons  
 (~~10~~ Well Volumes = 19.87 gallons)  
 3

GROUNDWATER SAMPLING DATA

Time/date Purged 12:35 11-19-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 12:56 | 13              | 13                    | 22.0      | 3317        | 7.92 | 170      | 2407      |
| 12:58 | 1               | 14                    | 21.9      | 3227        | 7.60 | 175      | 2432      |
| 1:00  | 1               | 15                    | 21.7      | 3222        | 7.43 | 177      | 2443      |
| 1:03  | 1               | 16                    | 21.6      | 3218        | 7.40 | 176      | 2446      |
| 1:05  | 1               | 17                    | 21.6      | 3215        | 7.38 | 178      | 2447      |
| 1:07  | 1               | 18                    | 21.5      | 3212        | 7.35 | 179      | 2446      |
| 1:09  | 1               | 19                    | 21.4      | 3214        | 7.33 | 177      | 2449      |
| 1:11  | 1               | 20                    | 21.1      | 3211        | 7.31 | 177      | 2451      |

Actual Purge Volume 20 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 1:11 11-19-13 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 74-05 Date Gauged 11-19-13  
 Site BUGNA ULSTA # Time Gauged 13:17  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 41.27 feet Height of Fluid Column 15.64 feet  
 Total Depth 56.91 feet Volume in Well 10.32 gallons  
 3 (~~10~~) Well Volumes = 30.96 gallons

GROUNDWATER SAMPLING DATA

Time/date Purged 13:25 11-19-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TPS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 14:07 | 24              | 24                    | 22.5      | 2990        | 7.57 | 172      | 2247       |
| 14:09 | 1               | 25                    | 21.9      | 2994        | 7.28 | 175      | 2243       |
| 14:11 | 1               | 26                    | 21.8      | 2990        | 7.17 | 177      | 2235       |
| 14:14 | 1               | 27                    | 21.6      | 2984        | 7.05 | 178      | 2242       |
| 14:16 | 1               | 28                    | 21.5      | 2988        | 6.93 | 179      | 2240       |
| 14:18 | 1               | 29                    | 21.4      | 2994        | 6.93 | 179      | 2244       |
| 14:20 | 1               | 30                    | 21.4      | 2997        | 6.91 | 178      | 2245       |
| 14:22 | 1               | 31                    | 21.3      | 2998        | 6.90 | 179      | 2247       |

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

Time/Date Sampled 14:22 11-19-13 Purged/Sampled By N

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



# 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

**Project #:** Fernie 575-233-4646  
**Project Name:** Buena Vista Dairy #2  
**Sampler Signature:** *Gully*

**Project Location (including state):** Buena Vista Dairy #2, 16910 Stem Drive, Mesquite, NM

| LAB #     | Field Code | # Containers | Volume/Amount | MATRIX |      |     | PRESERVATIVE METHOD |     |                  |                                | SAMPLING |          |       |
|-----------|------------|--------------|---------------|--------|------|-----|---------------------|-----|------------------|--------------------------------|----------|----------|-------|
|           |            |              |               | WATER  | SOIL | AIR | SLUDGE              | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH     | ICE      | NONE  |
| 74-1      |            | 1            | 200           | X      |      |     |                     | X   |                  | X                              |          | 11-19-13 | 12:33 |
| 74-1      |            | 1            |               | X      |      |     |                     | X   |                  | X                              |          |          | 12:53 |
| 74-2      |            | 1            |               | X      |      |     |                     | X   |                  | X                              |          |          |       |
| 74-2      |            | 1            |               | X      |      |     |                     | X   |                  | X                              |          |          |       |
| 74-3      |            | 1            |               | X      |      |     |                     | X   |                  | X                              |          |          |       |
| 74-3      |            | 1            |               | X      |      |     |                     | X   |                  | X                              |          | 13:11    |       |
| 74-4      |            | 1            |               | X      |      |     |                     | X   |                  | X                              |          | 13:11    |       |
| 74-4      |            | 1            |               | X      |      |     |                     | X   |                  | X                              |          | 14:22    |       |
| 74-5      |            | 1            |               | X      |      |     |                     | X   |                  | X                              |          | 14:22    |       |
| 74-5      |            | 1            |               | X      |      |     |                     | X   |                  | X                              |          |          |       |
| 74-Lagoon |            | 1            |               | X      |      |     |                     | X   |                  | X                              |          |          |       |
| 74-Lagoon |            | 1            |               | X      |      |     |                     | X   |                  | X                              |          |          |       |

**ANALYSIS REQUEST**

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

Turn Around Time

Hold

Reinquisitioned By: *Gully* Date: 11-19-13 Time: 14:43  
 Received By: *Danny Johnson* Date: 11-19-13 Time: 14:43

Lab Use Only  
 Intact  IN  
 Headspace  IN  
 Temp *12-2-12*  
 Log-in Review

Remarks: *ICE*  
*TPS, Ch No7 @ E.P.*  
*TKN @ Lubbock*

TRRP Report Required

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

# TraceAnalysis, Inc.

Company Name: Phone #: 915-859-8150  
Cell #:

D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln., El Paso, Texas 79907

Contact Person: Victor Ayala  
E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

Invoice to (if different from above):  
Buena Vista Dairy #2, P.O. Box 346, Mesquite, NM 88048  
Fermie 575-233-4646

Project Name: Buena Vista Dairy #2

Sampler Signature:

Project Location (including state):  
Buena Vista Dairy #2, 16910 Stern Drive, Mesquite, NM

155 McCutcheon, Ste. H El Paso, TX 79932  
Tel (915) 885-3443  
Fax (915) 885-4944

## 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 8270   |      |
| 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             |      |

| LAB #<br>(LAB USE ONLY) | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | DATE     | SAMPLING TIME |
|-------------------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|----------|---------------|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE |          |               |
| 74-2                    |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |     | 11/20/13 | 9:01          |
| 74-2                    |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |     | 11/20/13 | 9:01          |
| 74-3                    |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |     | 11/20/13 | 8:22          |
| 74-3                    |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |     | 11/20/13 | 8:30          |
| 74-3                    |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |     | 11/20/13 | 9:15          |
| 74-3                    |            | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |     | 11/20/13 | 9:15          |

Relinquished By: *[Signature]* Date: 11/20/13 Time: 15:08  
 Received By: *[Signature]* Date: 11/20/13 Time: 15:08  
 Lab Use Only: Intact  Y  N  
 Headspace  Y  N  
 Temp *22.2°C*  
 Log-in Review   
 Remarks: *Cl, NO<sub>3</sub>, TDS*  
 Dry Weight Basis Required   
 TRRP Report Required  *[Signature]*

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 126-04 Date Gauged 11/6/13  
 Site Del Norte Time Gauged 9:13  
 Depth to PSH 8 feet Well Diameter 4 inches  
 Depth to Water 34.32 feet Height of Fluid Column 4.18 feet  
 Total Depth 38.50 feet Volume in Well 2.75 gallons  
 (3 Well Volumes = 8.27 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:54 11/13/13 Purged Method Benton

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | IDS DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 10:56 | 2               |                       | 18.9      | 3589        | 6.99 | 238      | 2747          |
| 11:01 | 2               |                       | 20.1      | 3505        | 6.86 | 234      | 2668          |
| 11:08 | 2               |                       | 20.5      | 3501        | 6.79 | 233      | 2667          |
| 11:14 | 2               |                       | 20.1      | 3511        | 6.81 | 230      | 2671          |
| 11:21 | .5              |                       | 20.1      | 3518        | 6.78 | 227      | 2678          |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |

Actual Purge Volume 8.3 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 11:25 11/13/13 Purged/Sampled By [Signature]  
 Sample Method Benton  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 126-09 Date Gauged 11/6/13  
 Site DBL North Time Gauged 8:55  
 Depth to PSH 8 feet Well Diameter 2" inches  
 Depth to Water 26.67 feet Height of Fluid Column 4.83 feet  
 Total Depth 31.50 feet Volume in Well 82 gallons  
 (3 Well Volumes = 2.46 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:38 11/13/13 Purged Method Bailor

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TPS DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 12:40 | .5              |                       | 18.6      | 4690        | 7.37 | 247      | 3689          |
| 12:44 | .5              |                       | 18.8      | 4682        | 7.12 | 240      | 3648          |
| 12:49 | .5              |                       | 19.1      | 4668        | 7.09 | 237      | 3651          |
| 12:55 | .5              |                       | 18.9      | 4674        | 7.07 | 233      | 3655          |
| 12:01 | .5              |                       | 18.4      | 4674        | 7.02 | 229      | 3649          |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |

Actual Purge Volume 2.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 13:10 11/13/13 Purged/Sampled By [Signature]  
 Sample Method Bailor  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 126-07 Date Gauged 11/6/13  
 Site DZL Norte Time Gauged 9:33  
 Depth to PSH 8 feet Well Diameter 2" inches  
 Depth to Water 34.89 feet Height of Fluid Column 4.36 feet  
 Total Depth 39.25 feet Volume in Well .74 gallons  
 (3 Well Volumes = 2.22 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:30 11/13/13 Purged Method Bailen

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L)        |
|------|-----------------|-----------------------|-----------|-------------|------|----------|------------------|
| 9:30 | .5              |                       | 18.7      | 3412        | 7.10 | 2.77     | 26.04            |
| 9:34 | .5              |                       | 18.5      | 3421        | 6.98 | 2.39     | 26.08            |
| 9:39 | .5              |                       | 19.0      | 3434        | 7.02 | 2.21     | <del>26.14</del> |
| 9:42 | .5              |                       | 18.6      | 3441        | 7.06 | 2.11     | 26.20            |
|      |                 |                       |           |             |      |          |                  |
|      |                 |                       |           |             |      |          |                  |
|      |                 |                       |           |             |      |          |                  |
|      |                 |                       |           |             |      |          |                  |

Actual Purge Volume 2.0 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 9:45 11/13/13 Purged/Sampled By JF  
 Sample Method Bailen  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 126-09 Date Gauged 11/6/13  
 Site DEL Norte Time Gauged 8:10  
 Depth to PSH 2 feet Well Diameter 2" inches  
 Depth to Water 76.91 feet Height of Fluid Column 5.49 feet  
 Total Depth 82.40 feet Volume in Well 0.93 gallons  
 (3 Well Volumes = 2.79 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11/13/13 Purged Method Bail

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 8:20 | <del>5</del>    |                       | 19.7      | 4541        | 6.72 | 414      | 3391       |
| 8:27 | .5              |                       | 20.0      | 4427        | 6.64 | 394      | 3429       |
| 8:30 | <del>5</del>    |                       | 20.7      | 4419        | 6.69 | 398      | 3421       |
| 8:33 | .5              |                       | 20.1      | 4424        | 6.71 | 394      | 3427       |
| 8:36 | .5              |                       | 20.1      | 4419        | 6.70 | 392      | 3425       |
| 8:40 | 0               |                       | 20.1      | 4419        | 6.70 | 392      | 3425       |
|      |                 |                       |           |             |      |          |            |
|      |                 |                       |           |             |      |          |            |

Actual Purge Volume 2.5 gals Field Measurements stabilized within  $\pm 10\%$   
 Time/Date Sampled 8:40 11/13/13 Purged/Sampled By *[Signature]*  
 Sample Method Bailon  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations Bailed almost dry

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



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 126-12 Date Gauged 11/6/13  
 Site DBL North Time Gauged 10:00  
 Depth to PSH 8 feet Well Diameter 4" inches  
 Depth to Water 22.39 feet Height of Fluid Column 7.51 feet  
 Total Depth 29.90 feet Volume in Well 4.95 gallons  
 (3 Well Volumes = 14.86 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:31 11/12/13 Purged Method Bailor

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 13:39 | 3               |                       | 18.7      | 3482        | 7.68 | 275      | 2663       |
| 13:50 | 3               |                       | 18.9      | 3382        | 7.50 | 274      | 2574       |
| 14:07 | 3               |                       | 19.1      | 3377        | 7.47 | 272      | 2571       |
| 14:19 | 3               |                       | 19.2      | 3382        | 7.45 | 271      | 2573       |
| 14:34 | 3               |                       | 19.1      | 3383        | 7.41 | 272      | 2569       |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 14:30 11/13/13 Purged/Sampled By [Signature]  
 Sample Method Bailor  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 126-13 Date Gauged 11/13/13  
 Site DZLN North Time Gauged 9:42  
 Depth to PSH 8 feet Well Diameter 2<sup>1/2</sup> inches  
 Depth to Water 41.35 feet Height of Fluid Column 17.43 feet  
 Total Depth 58.78 feet Volume in Well 2.96 gallons  
 (3 Well Volumes = 8.88 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11/13/13 Purged Method Bailor

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 10:00 | 2               |                       | 18.5      | 4409        | 7.29 | 162      | 3456       |
| 10:14 | 2               |                       | 18.8      | 4391        | 6.75 | 178      | 3432       |
| 10:25 | 2               |                       | 19.1      | 4418        | 6.79 | 176      | 3438       |
| 10:32 | 2               |                       | 19.1      | 4407        | 6.72 | 178      | 3432       |
| 10:39 | .5              |                       | 19.7      | 4404        | 6.69 | 180      | 3435       |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 8.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 10:42 11/13/13 Purged/Sampled By [Signature]  
 Sample Method Bailor  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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





ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-01 Date gauged 11/8/13  
 Site Del Oro Time gauged 14:02  
 Depth to PSH 0 Feet Well diameter 4" Inches  
 Depth to water 60.72 Feet Height of fluid column N/A Feet  
 Total depth 0 Feet Volume in well N/A Gallons  
 (3 well volumes = N/A gallons)

GROUNDWATER SAMPLING DATA

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

| Time  | Purge Volume (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|--------------------|-----------|-------------|------|----------|-----------|
| 11:49 | 1                  | 21.5      | 4262        | 7.01 | 188      | 3269      |
| 11:53 | 1                  | 21.2      | 4260        | 6.86 | 177      | 3287      |
| 11:56 | 1                  | 21.7      | 4254        | 6.73 | 163      | 3294      |
| 11:59 | 1                  | 21.5      | 4259        | 6.78 | 117      | 3317      |
| 12:02 | 1                  | 21.1      | 4239        | 6.88 | 116      | 3288      |
| 12:05 | 1                  | 21.6      | 4259        | 6.77 | 104      | 3317      |
| 12:08 | 1                  | 21.2      | 4244        | 6.80 | 76       | 3299      |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |

Actual purge volume 7.0 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 12:10 12/4/13 Purged/sampled by IC

Sample method Pump

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

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

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM


FLUID LEVEL DATA

Well ID 629-02 Date Gauged 11/6/13  
 Site DELOZO Dairy Time Gauged 14:20  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 57.91 feet Height of Fluid Column 8.38 feet  
 Total Depth 66.29 feet Volume in Well 5.53 gallons  
 (3 Well Volumes = 16.59 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:15 12/3/13 Purged Method Bailor

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 12:18 | 3               |                       | 21.8      | 5284        | 5.20 | 298      | 3987       |
| 12:27 | 3               |                       | 21.5      | 5249        | 6.01 | 291      | 4024       |
| 12:36 | 3               |                       | 21.1      | 5235        | 6.54 | 282      | 4102       |
| 12:45 | 3               |                       | 20.9      | 5231        | 6.60 | 274      | 4128       |
| 12:54 | 3               |                       | 20.5      | 5229        | 6.58 | 272      | 4131       |
| 13:01 | 1.5             |                       | 20.6      | 5231        | 6.60 | 270      | 4133       |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 16.5 gals Field Measurements stabilized within ± 10%       
 Time/Date Sampled 13:04 12/3/13 Purged/Sampled By   
 Sample Method Bailor  
 Requested Analyses       
 Comments/Observations

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 629-04 Date Gauged 11/6/13  
 Site Del Oro Dam Time Gauged 14:14  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 59.03 feet Height of Fluid Column 1.55 feet  
 Total Depth 60.58 feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:15 12/3/13 Purged Method Baiter

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

*NO Purge ONLY Samples*

Actual Purge Volume 0 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 13:19 12/3/13 Purged/Sampled By [Signature]  
 Sample Method Baiter  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations No Enough Water to Purge ONLY Sample

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-05 Date gauged N/A  
 Site De/000 Time gauged \_\_\_\_\_  
 Depth to PSH 0 Feet Well diameter 4" Inches  
 Depth to water N/A Feet Height of fluid column 0 Feet  
 Total depth N/A Feet Volume in well 0 Gallons

(3 well volumes = 0 gallons)

GROUNDWATER SAMPLING DATA

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

| Time  | Purge Volume (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|--------------------|-----------|-------------|------|----------|-----------|
| 13:09 | 1                  | 21.2      | 2241        | 7.85 | 193      | 1653      |
| 13:12 | 1                  | 21.7      | 2226        | 7.38 | 211      | 1638      |
| 13:15 | 1                  | 21.6      | 2233        | 7.19 | 212      | 1635      |
| 13:18 | 1                  | 21.0      | 2236        | 7.10 | 215      | 1650      |
| 13:20 | 1                  | 21.6      | 2233        | 7.18 | 213      | 1643      |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |

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

Time/date sampled 12/4/13 13:22 Purged/sampled by DC

Sample method Pump

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

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

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-06 Date Gauged 11/6/13  
 Site Del Oro Dairy Time Gauged 13:41  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 82.18 feet Height of Fluid Column 7.86 feet  
 Total Depth 90.04 feet Volume in Well 5.18 gallons  
 (3 Well Volumes = 15.56 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10x5 12/3/13 Purged Method Bailer

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 10:23 | 3               |                       | 22.0      | 4693        | 6.40 | 298      | 4205       |
| 10:31 | 3               |                       | 21.7      | 4638        | 6.10 | 336      | 3887       |
| 10:39 | 3               |                       | 20.9      | 4527        | 5.33 | 395      | 3850       |
| 10:46 | 3               |                       | 20.7      | 4524        | 5.30 | 412      | 3847       |
| 10:54 | 3               |                       | 20.9      | 4521        | 5.29 | 419      | 3845       |
| 10:57 | 1.5             |                       | 20.8      | 4520        | 5.28 | 420      | 3844       |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 15.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 10:59 12/3/13 Purged/Sampled By [Signature]  
 Sample Method Bailer  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

Well ID 692-07 **FLUID LEVEL DATA**  
 Site Del Oro Date gauged 11/6/13  
 Time gauged 13:50  
 Depth to PSH N/A Feet Well diameter 4" Ø Inches  
 Depth to water 72.26 Feet Height of fluid column Ø Feet  
 Total depth Ø Feet Volume in well Ø Gallons

(3 well volumes = N/A gallons)

GROUNDWATER SAMPLING DATA

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

| Time  | Purge Volume (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|--------------------|-----------|-------------|------|----------|-----------|
| 12:35 | 1                  | 22        | 2617        | 7.91 | 178      | 1970      |
| 12:38 | 1                  | 21.8      | 2620        | 7.85 | 185      | 1939      |
| 12:40 | 1                  | 21.3      | 2597        | 7.56 | 193      | 1942      |
| 12:44 | 1                  | 20.2      | 2621        | 7.57 | 218      | 1951      |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |

TDS

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

Time/date sampled 12:57 12/4/13 Purged/sampled by IC

Sample method Pump

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

Comments/observations Sample after 4 gal, seems well  
was not recharging or going dry! No water coming  
out!!

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



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

Well ID: 692-08 ~~627-08~~      Fluid Level Data  
 Date gauged: ~~12/4/13~~ 11/6/13  
 Site: Del Oro      Time gauged: 14:31  
 Depth to PSH: 0 Feet      Well diameter: 4" Inches  
 Depth to water: 68.06 Feet      Height of fluid column: N/A Feet  
 Total depth: No TD Feet      Volume in well: N/A Gallons  
 (3 well volumes = N/A gallons)

GROUNDWATER SAMPLING DATA

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

| Time  | Purge Volume (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|--------------------|-----------|-------------|------|----------|-----------|
| 10:58 | 1                  | 26.1      | 2267        | 7.97 | 234      | 1674      |
| 11:02 | 1                  | 26.1      | 2147        | 7.56 | 238      | 1578      |
| 11:06 | 1                  | 26.7      | 2162        | 7.56 | 246      | 1583      |
| 11:09 | 1                  | 26.1      | 2154        | 7.07 | 145      | 1577      |
| 11:12 | 1                  | 21.5      | 2147        | 7.04 | 82       | 1579      |
| 11:15 | 1                  | 21.1      | 2160        | 7.06 | 74       | 1593      |
| 11:18 | 1                  | 21        | 2161        | 7.05 | 75       | 1602      |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |
|       |                    |           |             |      |          |           |

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

Time/date sampled: 12/4/13 11:21      Purged/sampled by: IC

Sample method: Pump

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

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

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



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-09 Date gauged 11/6/13  
 Site Del Oro Time gauged 13:28  
 Depth to PSH N/A Feet Well diameter 4" Inches  
 Depth to water 83.73 Feet Height of fluid column Ø Feet  
 Total depth N/A Feet Volume in well Ø Gallons

(3 well volumes = Ø gallons)

GROUNDWATER SAMPLING DATA

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

| Time  | Purge Volume (gal) | Temp (°C)       | SpC (µs/cm)     | pH              | ORP (mV) | DO (mg/L) |
|-------|--------------------|-----------------|-----------------|-----------------|----------|-----------|
|       | <del>1</del>       | <del>22.4</del> | <del>2233</del> | <del>7.53</del> |          |           |
| 13:46 | 1                  | 22.4            | 2233            | 7.53            | 213      | 1637      |
| 13:49 | 1                  | 21.5            | 2240            | 7.39            | 213      | 1658      |
| 13:52 | 1                  | 22.2            | 2241            | 7.32            | 194      | 1647      |
| 13:55 | 1                  | 22.1            | 2255            | 7.31            | 195      | 1665      |
| 13:58 | 1                  | 22.0            | 2251            | 7.27            | 192      | 1657      |
|       |                    |                 |                 |                 |          |           |
|       |                    |                 |                 |                 |          |           |
|       |                    |                 |                 |                 |          |           |
|       |                    |                 |                 |                 |          |           |
|       |                    |                 |                 |                 |          |           |

Actual purge volume 5 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_  
 Time/date sampled 14:02 12/4/13 Purged/sampled by Jc  
 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

# TraceAnalysis, Inc.

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Tel (806) 794-1296  
Fax (806) 794-1288

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

Company Name:  
D&H Petroleum & Environmental Services  
Address: (Street, City, Zip)  
1221 Tower Trail Ln, El Paso TX 79907

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

Contact Person: Victor Ayala  
Invoice to (if different from above): Jerry Settles 575-882-4331  
Del Oro Dairy, PO Box 1846, Anthony, TX 88021  
Project Name: Del Oro Dairy  
Sampler Signature: *[Signature]*

| LAB #  | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | SAMPLING |      |      |         |       |  |
|--------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|------|------|---------|-------|--|
|        |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE | DATE | TIME    |       |  |
| 692-01 |            | 1            |               | X      |      |     |        | X                   |                  | X                              |      |          |      |      |         |       |  |
| 692-01 |            | 1            | 250 mL        | X      |      |     |        | X                   |                  | X                              |      |          |      |      | 12/3/13 | 13:04 |  |
| 692-02 |            | 1            | 250 mL        | X      |      |     |        | X                   |                  | X                              |      |          |      |      | 12/3/13 | 13:04 |  |
| 692-02 |            | 1            | 250 mL        | X      |      |     |        | X                   |                  | X                              |      |          |      |      | 12/3/13 | 13:19 |  |
| 692-04 |            | 1            | 250 mL        | X      |      |     |        | X                   |                  | X                              |      |          |      |      | 12/3/13 | 13:19 |  |
| 692-04 |            | 1            |               | X      |      |     |        | X                   |                  | X                              |      |          |      |      |         |       |  |
| 692-05 |            | 1            |               | X      |      |     |        | X                   |                  | X                              |      |          |      |      | 12/3/13 | 10:59 |  |
| 692-05 |            | 1            | 250 mL        | X      |      |     |        | X                   |                  | X                              |      |          |      |      | 12/3/13 | 10:59 |  |
| 692-06 |            | 1            |               | X      |      |     |        | X                   |                  | X                              |      |          |      |      |         |       |  |
| 692-06 |            | 1            |               | X      |      |     |        | X                   |                  | X                              |      |          |      |      |         |       |  |
| 692-07 |            | 1            |               | X      |      |     |        | X                   |                  | X                              |      |          |      |      |         |       |  |
| 692-07 |            | 1            |               | X      |      |     |        | X                   |                  | X                              |      |          |      |      |         |       |  |
| 692-08 |            | 1            |               | X      |      |     |        | X                   |                  | X                              |      |          |      |      |         |       |  |
| 692-08 |            | 1            |               | X      |      |     |        | X                   |                  | X                              |      |          |      |      |         |       |  |
| 692-09 |            | 1            |               | X      |      |     |        | X                   |                  | X                              |      |          |      |      |         |       |  |
| 692-09 |            | 1            |               | X      |      |     |        | X                   |                  | X                              |      |          |      |      |         |       |  |

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 | X |
| Nitrate as Nitrogen EPA 300.0                    | X |
| Chloride EPA Method 300.0                        | X |
| Sulfate EPA Method 300.0                         | X |
| Total Dissolved Solids SM 2540 C MOD             | X |
| Total Kjeldahl Nitrogen SM 4500 NORGC            | X |
| Phosphorus SM 4500                               | X |
| Turn Around Time                                 |   |

Lab Use Only  
Initial: Y N  
Headspace Y / N  
Temp 18.2 5/5  
Log-in Review \_\_\_\_\_

Remarks: ICE  
C2, TDS, NO3 @ EP.  
TKN @ Lubbock

Dry Weight Basis Required  
TRRP Report Required

Received By: *[Signature]* Date: 12/3/13 Time: 14:13  
Relinquished By: *[Signature]* Date: 12/3/13 Time: 14:13  
Received at Laboratory By: *[Signature]* Date: 12-3-13 Time: 14:13  
Relinquished By: *[Signature]* Date: 12/3/13 Time: 14:13

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Paso, TX 79932  
Tel (915) 585-3443  
Fax (915) 585-4944

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # \_\_\_\_\_

Company Name: \_\_\_\_\_ Phone #: 915-859-8150  
 D&H Petroleum & Environmental Services Cell #: \_\_\_\_\_  
 Address: (Street, City, Zip) Fax #: \_\_\_\_\_  
 1221 Tower Trail Ln, El Paso TX 79907 E-mail: vajala@dhpump.com

Contact Person: Victor Ayala  
 Invoice to (if different from above): Jerry Settles 575-882-4331  
 Del Oro Dairy, PO Box 1846, Anthony, TX 88021  
 Project #: 429549 Project Name: Del Oro Dairy  
 Sampler Signature: \_\_\_\_\_

Project Location (including state): Del Oro Dairy, 1025 East O'Hara, Anthony, NM

| LAB #<br>(LAB USE ONLY) | Field Code | # Containers | Volume/Amount | MATRIX |      |     | PRESERVATIVE METHOD |     |                  |                                | SAMPLING |     | TIME    |       |
|-------------------------|------------|--------------|---------------|--------|------|-----|---------------------|-----|------------------|--------------------------------|----------|-----|---------|-------|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE              | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH     | ICE |         | NONE  |
| 692-01                  |            | 1            | 250 ml        | X      |      |     |                     | X   | X                | X                              |          |     | 12/4/13 | 12:10 |
| 692-01                  |            | 1            | 250 ml        | X      |      |     |                     | X   | X                | X                              |          |     | 12/4/13 | 12:10 |
| <del>692-02</del>       |            | 1            |               | X      |      |     |                     | X   | X                | X                              |          |     |         |       |
| <del>692-02</del>       |            | 1            |               | X      |      |     |                     | X   | X                | X                              |          |     |         |       |
| <del>692-04</del>       |            | 1            |               | X      |      |     |                     | X   | X                | X                              |          |     |         |       |
| <del>692-04</del>       |            | 1            |               | X      |      |     |                     | X   | X                | X                              |          |     |         |       |
| 692-05                  |            | 1            | 250 ml        | X      |      |     |                     | X   | X                | X                              |          |     | 12/4/13 | 13:22 |
| 692-05                  |            | 1            | 250 ml        | X      |      |     |                     | X   | X                | X                              |          |     | 12/4/13 | 13:22 |
| <del>692-06</del>       |            | 1            |               | X      |      |     |                     | X   | X                | X                              |          |     |         |       |
| <del>692-06</del>       |            | 1            |               | X      |      |     |                     | X   | X                | X                              |          |     |         |       |
| 692-07                  |            | 1            | 250 ml        | X      |      |     |                     | X   | X                | X                              |          |     | 12/4/13 | 12:57 |
| 692-07                  |            | 1            |               | X      |      |     |                     | X   | X                | X                              |          |     |         | 12:57 |
| 692-08                  |            | 1            |               | X      |      |     |                     | X   | X                | X                              |          |     |         | 11:21 |
| 692-08                  |            | 1            |               | X      |      |     |                     | X   | X                | X                              |          |     |         | 11:21 |
| 692-09                  |            | 1            |               | X      |      |     |                     | X   | X                | X                              |          |     |         | 14:02 |
| 692-09                  |            | 1            |               | X      |      |     |                     | X   | X                | X                              |          |     |         | 14:02 |

Relinquished By: \_\_\_\_\_ Date: 12/4/13 Time: 14:23  
 Received at Laboratory By: MUC Date: 12-4-13 Time: 14:25  
 Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Lab Use Only  
 Intact Y / N  
 Headspace Y / N  
 Temp 24.4  
 Log-in Review \_\_\_\_\_

Remarks: on ice

(6)

Dry Weight Basis Required  
 TRRP Report Required



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 624-01 Date Gauged 11-19-13  
 Site Dominquez #1 Time Gauged 8:30  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches  
 Depth to Water 86.99 feet Height of Fluid Column 19.46 feet  
 Total Depth 46.65 feet Volume in Well 12.97 gallons  
 (3 Well Volumes = 38.92 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:37 11-19-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 9:06 | 32              | 32                    | 21.7      | 6044        | 7.96 | 241      | 4836       |
| 9:08 | 1               | 33                    | 21.1      | 5410        | 7.53 | 242      | 4291       |
| 9:09 | 1               | 34                    | 20.9      | 5254        | 7.43 | 246      | 4156       |
| 9:11 | 1               | 35                    | 20.8      | 5171        | 7.24 | 238      | 4085       |
| 9:12 | 1               | 36                    | 20.8      | 5153        | 7.14 | 235      | 4068       |
| 9:14 | 1               | 37                    | 20.7      | 5145        | 7.14 | 233      | 4065       |
| 9:15 | 1               | 38                    | 20.7      | 5146        | 7.13 | 233      | 4063       |
| 9:17 | 1               | 39                    | 20.7      | 5144        | 7.13 | 231      | 4064       |

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

Time/Date Sampled 9:17 11-19-13 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



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 624-02 Date Gauged 11-19-13  
 Site DUMWATER #1 Time Gauged 9:50  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches  
 Depth to Water 19.04 feet Height of Fluid Column 18.36 feet  
 Total Depth 37.40 feet Volume in Well 12.11 gallons  
 (3 Well Volumes = 36 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:00 11-19-13 Purged Method BAL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm)             | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------------------|------|----------|------------|
| 10:34 | 29              | 29                    | 20.2      | <del>4899</del><br>5001 | 7.55 | 216      | 3944       |
| 10:36 | 1               | 30                    | 20.2      | 4962                    | 7.21 | 218      | 3912       |
| 10:38 | 1               | 31                    | 19.9      | 4973                    | 7.09 | 217      | 3921       |
| 10:40 | 1               | 32                    | 19.6      | 4991                    | 7.04 | 216      | 3941       |
| 10:43 | 1               | 33                    | 19.6      | 4994                    | 6.98 | 216      | 3942       |
| 10:45 | 1               | 34                    | 19.0      | 4973                    | 6.86 | 215      | 3930       |
| 10:47 | 1               | 35                    | 19.2      | 4973                    | 6.85 | 215      | 3927       |
| 10:49 | 1               | 36                    | 19.1      | 4975                    | 6.81 | 214      | 3926       |

Actual Purge Volume 36 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:49 11-19-13 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 gal/ft

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 624-04 Date Gauged 11-19-13  
 Site DOMINGUEZ #1 Time Gauged 9:25  
 Depth to PSH 0 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) |
|------|-----------------|-----------------------|-----------|-------------|----|----------|-----------|
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |

DRY

Actual Purge Volume \_\_\_\_\_ gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_  
 Sample Method \_\_\_\_\_  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations DRY well

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 625-05 Date Gauged 11-19-13  
 Site A DOMINGUEZ #1 Time Gauged 9:32

Depth to PSH 0 feet Well Diameter 4" 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 DRY well

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



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 624-06 Date Gauged 11-19-13  
 Site DOMINGUEZ #1 Time Gauged 11:03  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water \_\_\_\_\_ feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth 52.3 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) |
|------|-----------------|-----------------------|-----------|-------------|----|----------|-----------|
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |
|      |                 |                       |           |             |    |          |           |

DRY

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

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations DRY WELL

Well Casing Volumes

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 624-07 Date Gauged 11-19-13  
 Site DOMINGUEZ #1 Time Gauged 10:56  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 0 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth 55.70 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 DRY well

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 624-08 Date Gauged 11-19-13  
 Site DOMINGUEZ #1 Time Gauged 9:40  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water \_\_\_\_\_ 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 DRY well

Well 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

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Fax (915) 585-4944

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

Invoice to (if different from above): Isaac Dominguez 575-649-7040  
Project #: \_\_\_\_\_ Project Name: Dominguez Dairy #1  
Project Location (including state): Dominguez Dairy #1, PO Box 21, Mesquite, NM 88048  
Sampler Signature: Juf

| LAB #<br>(LAB USE ONLY) | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | Sampling |      | Turn Around Time |       |  |
|-------------------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|----------|------|------------------|-------|--|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE     | DATE |                  | TIME  |  |
| 624-01                  |            | 1            | 200           | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      | 11-19-13         | 09:17 |  |
| 624-01                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  | 09:17 |  |
| 624-02                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  | 10:49 |  |
| 624-02                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  | 10:49 |  |
| 624-04                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  |       |  |
| 624-04                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  |       |  |
| 624-05                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  |       |  |
| 624-05                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  |       |  |
| 624-06                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  |       |  |
| 624-06                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  |       |  |
| 624-07                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  |       |  |
| 624-07                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  |       |  |
| 624-08                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  |       |  |
| 624-08                  |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  |       |  |
| 624 Lagoon              |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  | 11:10 |  |
| 624 Lagoon              |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   |          |      |                  | 11:10 |  |

ANALYSIS REQUEST

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

LAB Order ID # \_\_\_\_\_

Remarks: ICE  
NO<sub>2</sub>, NO<sub>3</sub>, TDS @ Lubbock  
TKN @ Lubbock  
El. PASO

Lab Use Only  
Intact Y/N  
Headspace Y/N  
Temp 12-2 2/2  
Log-in Review \_\_\_\_\_

Received By: \_\_\_\_\_ Date: 11-19-13 Time: 14:43  
Received at Laboratory By: Danny of Ho Date: 11-19-13 Time: 14:43

Relinquished By: Juf Date: 11-19-13 Time: 14:43  
Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-02 Date Gauged 11-26-13  
 Site Domi Time Gauged 10:42  
 Depth to PSH 0 feet Well Diameter 4 inches  
 Depth to Water 26.35 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth Pump feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = 25 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:46 / 11-26-13 Purged Method Well pump

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L)       |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------------|
| 10:48 | 5               | 5                     | 19.2      | 3504        | 7.19 | 144      | 2675            |
| 10:48 | 5               | 10                    | 19.8      | 3410        | 6.95 | 145      | 2593            |
| 10:50 | 5               | 15                    | 19.9      | 3400        | 6.85 | 144      | 2586            |
| 10:52 | 5               | 20                    | 19.9      | 3393        | 6.88 | 130      | <del>2579</del> |
| 10:54 | 5               | 25                    | 21.2      | 3402        | 6.97 | 131      | 2583            |
|       |                 |                       |           |             |      |          |                 |
|       |                 |                       |           |             |      |          |                 |
|       |                 |                       |           |             |      |          |                 |

Actual Purge Volume 25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 10:56 / 11-26-13 Purged/Sampled By [Signature]  
 Sample Method Well pump  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations Clear water no odor

Well Casing Volumes

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 11-26-13  
 Site Dominquez #2 Time Gauged 7:45  
 Depth to PSH 0 feet Well Diameter 4 inches  
 Depth to Water 83.89 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth  pump  feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11-26-13 / 7:50 Purged Method Well Pump

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 7:56 | 5               | 5                     | 20.3      | 5514        | 7.02 | 332      | 4385          |
| 8:09 | 5               | 10                    | 21.0      | 5512        | 7.12 | 248      | 4373          |
| 8:13 | 5               | 15                    | 22.8      | 5541        | 7.11 | 225      | 4383          |
| 8:18 | 5               | 20                    | 24.3      | 5547        | 6.78 | 204      | 4385          |
| 8:22 | 5               | 25                    | 22.2      | 5506        | 6.75 | 195      | 4377          |
|      |                 |                       |           |             |      |          |               |
|      |                 |                       |           |             |      |          |               |

Actual Purge Volume 25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 8:25 / 11-26-13 Purged/Sampled By H. [Signature]

Sample Method Well Pump

Requested Analyses \_\_\_\_\_

Comments/Observations Water clear color no odor

Well 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 42-06 Date Gauged 11-26-13  
 Site Dominquez #2 Time Gauged 12:11  
 Depth to PSH 0 feet Well Diameter \_\_\_\_\_ inches  
 Depth to Water 31.65 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth pump feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:20 / 11-26-13 Purged Method Well pump

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 1221 | 5               | 5                     | 22.2      | 3587        | 7.18 | 168      | 2731          |
| 1225 | 5               | 10                    | 22.1      | 3508        | 7.05 | 151      | 2658          |
| 1228 | 5               | 15                    | 22.0      | 3418        | 7.03 | 148      | 2580          |
| 1232 | 5               | 20                    | 22.0      | 3491        | 7.48 | 164      | 2632          |
| 1235 | 5               | 25                    | 21.8      | 3384        | 7.25 | 164      | 2564          |
|      |                 |                       |           |             |      |          |               |
|      |                 |                       |           |             |      |          |               |
|      |                 |                       |           |             |      |          |               |

Actual Purge Volume 25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 1239 / 11-26-13 Purged/Sampled By [Signature]  
 Sample Method Well pump  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

Well Casing Volumes

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



**MONITOR WELL DEVELOPMENT FIELD FORM**

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**FLUID LEVEL DATA**

Well ID 42-07 Date Gauged 11-26-13  
 Site Dominquez #2 Time Gauged 12:51  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 0 feet Height of Fluid Column 0 feet  
 Total Depth \_\_\_\_\_ feet Volume in Well 0 gallons  
 (3 Well Volumes = 0 gallons)

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**GROUNDWATER SAMPLING DATA**

Time/date Purged N/A Purged Method N/A

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

*DRY*

Actual Purge Volume 0 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled N/A Purged/Sampled By [Signature]  
 Sample Method N/A  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations Well is dry. No sample

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Well Casing Volumes  
 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 42-08 Date Gauged 11-26-13  
 Site Dominquez #2 Time Gauged 11:05  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 28.26 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth 144 feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:11 / 11-26-13 Purged Method Well pump

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 11:12 | 5               | 5                     | 19.8      | 2357        | 7.44 | 1.21     | 1741          |
| 11:22 | 5               | 10                    | 23.1      | 2629        | 7.40 | 1.45     | 1967          |
| 11:31 | 5               | 15                    | 23.9      | 2743        | 7.92 | 156      | 2048          |
| 11:39 | 5               | 20                    | 23.2      | 2723        | 7.48 | 158      | 2039          |
| 11:46 | 5               | 25                    | 22.6      | 2669        | 7.20 | 153      | 2000          |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |

Actual Purge Volume 25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 11:49 / 11-26-13 Purged/Sampled By [Signature]  
 Sample Method Well pump  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations Water clear no odor

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID: 42-09 Date Gauged: 11-26-13  
 Site: Dominquez #2 Time Gauged: 9:45  
 Depth to PSH: \_\_\_\_\_ feet Well Diameter: \_\_\_\_\_ inches  
 Depth to Water: 48.25 feet Height of Fluid Column: \_\_\_\_\_ feet  
 Total Depth:  pump  feet Volume in Well: \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged: 9:51 / 11-26-13 Purged Method: Well pump

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 9:53  | 5               | 5                     | 21.0      | 4831        | 7.22 | 69       | 3796       |
| 10:09 | 5               | 10                    | 22.8      | 4668        | 7.09 | 116      | 3632       |
| 10:16 | 5               | 15                    | 22.9      | 4658        | 6.73 | 95       | 3631       |
| 10:21 | 5               | 20                    | 22.9      | 4664        | 7.11 | 113      | 3628       |
| 10:27 | 5               | 25                    | 22.2      | 4665        | 7.02 | 123      | 3643       |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume: 25 gals Field Measurements stabilized within ± 10%: \_\_\_\_\_  
 Time/Date Sampled: 10:30 / 11-26-13 Purged/Sampled By: [Signature]  
 Sample Method: Well pump  
 Requested Analyses: \_\_\_\_\_  
 Comments/Observations: Water murky

Well Casing Volumes  
 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 42-70 Date Gauged 11-26-13  
 Site Dominquez #2 Time Gauged 1420  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches.  
 Depth to Water 115.20 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth pump feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged ~~14:21~~ 14:21 / 11-26-13 Purged Method Well pump

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 1423 | 5               | 5                     | 23.6      | 2336        | 7.22 | 90       | 1719          |
| 1426 | 5               | 10                    | 26.0      | 2308        | 6.83 | 94       | 1684          |
| 1428 | 5               | 15                    | 25.4      | 2291        | 6.96 | 116      | 1686          |
| 1431 | 5               | 20                    | 25.3      | 2294        | 6.99 | 123      | 1680          |
| 1433 | 5               | 25                    | 25.8      | 2287        | 6.99 | 127      | 1678          |
|      |                 |                       |           |             |      |          |               |
|      |                 |                       |           |             |      |          |               |
|      |                 |                       |           |             |      |          |               |

Actual Purge Volume 25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 1436 / 11-26-13 Purged/Sampled By [Signature]  
 Sample Method Well pump  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-11 Date Gauged 11-26-13  
 Site Dominquez #2 Time Gauged 1320  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 125.39 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth 125.39 feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1325 / 11-26-13 Purged Method Well pump

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 1328 | 5               | 5                     | 26.4      | 2090        | 7.40 | 241      | 1522          |
| 1331 | 5               | 10                    | 26.5      | 1921        | 7.35 | 234      | 1383          |
| 1335 | 5               | 15                    | 27.0      | 2006        | 7.18 | 196      | 1455          |
| 1339 | 5               | 20                    | 27.8      | 2025        | 7.03 | 165      | 1476          |
| 1343 | 5               | 25                    | 27.6      | 2045        | 6.95 | 191      | 1485          |
|      |                 |                       |           |             |      |          |               |
|      |                 |                       |           |             |      |          |               |
|      |                 |                       |           |             |      |          |               |

Actual Purge Volume 25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 1345 / 11-26-13 Purged/Sampled By [Signature]  
 Sample Method Well pump  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-12 Date Gauged 11-26-13  
 Site Dominquez #2 Time Gauged 1353  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 113.11 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth psp feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1355 / 11-26-13 Purged Method Well pump

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 1356 | 5               | 5                     | 24.5      | 1963        | 7.34 | 230      | 1427       |
| 1359 | 5               | 10                    | 27.2      | 1930        | 7.10 | 202      | 1396       |
| 1402 | 5               | 15                    | 27.6      | 1937        | 7.01 | 169      | 1402       |
| 1404 | 5               | 20                    | 27.8      | 1941        | 7.0  | 167      | 1402       |
| 1407 | 5               | 25                    | 27.6      | 1944        | 6.96 | 158      | 1404       |
|      |                 |                       |           |             |      |          |            |
|      |                 |                       |           |             |      |          |            |
|      |                 |                       |           |             |      |          |            |

Actual Purge Volume 25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 1409 / 11-26-13 Purged/Sampled By [Signature]  
 Sample Method Well pump  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-13 Date Gauged 11-26-13  
 Site Dominquez Time Gauged 8:39

Depth to PSH \_\_\_\_\_ feet Well Diameter 4 inches  
 Depth to Water 56.32 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth  pump  feet Volume in Well \_\_\_\_\_ gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:52/11-26-13 Purged Method Well pump

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 8:52 | 5               | 5                     | 17.2      | 5142        | 7.06 | 197      | 4089      |
| 9:04 | 5               | 10                    | 21.8      | 5165        | 7.36 | 136      | 4067      |
| 9:17 | 5               | 15                    | 23.6      | 5132        | 6.80 | 710      | 4031      |
| 9:23 | 5               | 20                    | 23.1      | 5138        | 6.80 | 99       | 4039      |
| 9:29 | 5               | 25                    | 22.5      | 5148        | 6.84 | 139      | 4042      |
|      |                 |                       |           |             |      |          |           |
|      |                 |                       |           |             |      |          |           |
|      |                 |                       |           |             |      |          |           |


Actual Purge Volume 25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 9:32/11-26-13 Purged/Sampled By [Signature]  
 Sample Method Well Pump  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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





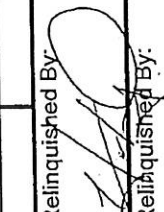
155 McCutcheon, Ste. H El Paso, TX 79932  
 Tel (915) 585-3443 Fax (915) 585-4944  
**TraceAnalysis, Inc.**  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

Company Name: \_\_\_\_\_  
 D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip) \_\_\_\_\_  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: \_\_\_\_\_  
 Victor Ayala  
 Invoice to (if different from above): \_\_\_\_\_  
 Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048  
 Project #: 429541  
 Project Name: \_\_\_\_\_  
 Dominguez Dairy #2  
 Sampler Signature: 

**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 |
| Total Kjeldahl Nitrogen SM 4500 NORG C           | X |
| Chloride EPA 300.0                               | X |
| Total Dissolved Solids SM 2540 C MOD             | X |
| Turn Around Time                                 |   |
| Hold   |   |

| LAB # | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | DATE     | SAMPLING TIME |
|-------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|---------------|
|       |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH |          |               |
|       | 42-12      | 1            |               | X      |      |     |        | X                   |                  |                                |      | 11-26-13 | 1409          |
|       | 42-12      | 1            |               | X      |      |     |        | X                   |                  |                                |      | 1409     | 9:32          |
|       | 42-13      | 1            |               | X      |      |     |        | X                   |                  |                                |      | 9:32     | 9:14          |
|       | 42-13      | 1            |               | X      |      |     |        | X                   |                  |                                |      | 11-26-13 | 9:14          |
|       | 42 Lagoon  | 1            |               | X      |      |     |        | X                   |                  |                                |      |          |               |
|       | 42 Lagoon  | 1            |               | X      |      |     |        | X                   |                  |                                |      |          |               |

Relinquished By:  Date: 11-26-13 Time: 1553  
 Received at Laboratory By: Mike Jeff Date: 11-26-13 Time: 15:50  
 Relinquished By: 100 TAO 11:30 Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Intact Y / N  
 Headspace Y / N  
 Temp \_\_\_\_\_  
 Log-in Review \_\_\_\_\_

Remarks: ON ICE  
 Dry Weight Basis Required \_\_\_\_\_  
 TRRP Report Required \_\_\_\_\_



**MONITOR WELL DEVELOPMENT FIELD FORM**

**FLUID LEVEL DATA**

Well ID DAD-01 Date Gauged 12-11-13  
 Site \_\_\_\_\_ Time Gauged 10:30  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 70.47 feet Height of Fluid Column 5.8 feet  
 Total Depth 76.27 feet Volume in Well .986 gallons  
 (3 Well Volumes = 2.958 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 10:38 12-11-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TD5<br>DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------------|
| 10:41 | 1               | 1                     | 14.4      | 3101        | 7.90 | 218      | 2347             |
| 10:44 | 1               | 2                     | 21.9      | 2961        | 7.32 | 221      | 2208             |
| 10:47 | 1               | 3                     | 21.4      | 2885        | 7.15 | 221      | 2154             |
|       |                 |                       |           |             |      |          |                  |
|       |                 |                       |           |             |      |          |                  |
|       |                 |                       |           |             |      |          |                  |
|       |                 |                       |           |             |      |          |                  |
|       |                 |                       |           |             |      |          |                  |

Actual Purge Volume 3 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 10:47 12-11-13 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 DA0-02 Date Gauged 12-11-13  
 Site \_\_\_\_\_ Time Gauged 11:14  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 65.89 feet Height of Fluid Column 1.99 feet  
 Total Depth 67.88 feet Volume in Well 3383 gallons  
 (3 Well Volumes = 1.0149 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:19 12-11-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | <sup>705</sup> DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|--------------------------|
| 11:24 | 1               | 1                     | 23.4      | 2497        | 7.32 | 223      | 1853                     |
|       |                 |                       |           |             |      |          |                          |
|       |                 |                       |           |             |      |          |                          |
|       |                 |                       |           |             |      |          |                          |
|       |                 |                       |           |             |      |          |                          |
|       |                 |                       |           |             |      |          |                          |
|       |                 |                       |           |             |      |          |                          |
|       |                 |                       |           |             |      |          |                          |

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 11:24 12-11-13 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-03 Date Gauged 12-11-13  
 Site \_\_\_\_\_ Time Gauged 11:55  
 Depth to PSH \_\_\_\_\_ feet Well Diameter NA inches  
 Depth to Water 12.67 feet Height of Fluid Column NA feet  
 Total Depth NA feet Volume in Well NA gallons  
 (3 Well Volumes = \_\_\_\_\_ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:01 12-11-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 12:03 | 1               | 1                     | 23.6      | 4812        | 7.29 | 20       | 3752       |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |

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

Time/Date Sampled 12:03 12-11-12 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses \_\_\_\_\_

Comments/Observations HAD TO BREAK ROOTS BLOCKING PATH FOR GAUGE. COULD NOT BREAK ALL ROOTS BUT ENOUGH TO PURGE AND SAMPLE. PURGING 1 GALLON AND USING METER.

Well Casing Volumes  
 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-04 Date Gauged 12-11-13  
 Site \_\_\_\_\_ Time Gauged 12:22  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 17.02 feet Height of Fluid Column 1.08 feet  
 Total Depth 18.01 feet Volume in Well .1836 gallons  
 (3 Well Volumes = .5508 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:28 12-11-13 Purged Method BAIL

| Time         | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C)   | SpC (µs/cm) | pH          | ORP (mV)  | TDS<br>DO (mg/L) |
|--------------|-----------------|-----------------------|-------------|-------------|-------------|-----------|------------------|
| <u>12:31</u> | <u>.5</u>       | <u>.5</u>             | <u>20.3</u> | <u>2734</u> | <u>7.94</u> | <u>45</u> | <u>2858</u>      |
|              |                 |                       |             |             |             |           |                  |
|              |                 |                       |             |             |             |           |                  |
|              |                 |                       |             |             |             |           |                  |
|              |                 |                       |             |             |             |           |                  |
|              |                 |                       |             |             |             |           |                  |
|              |                 |                       |             |             |             |           |                  |
|              |                 |                       |             |             |             |           |                  |

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

Time/Date Sampled 12:31 12-11-13 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-05 Date Gauged 12-12-13  
 Site \_\_\_\_\_ Time Gauged 9:35

Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 15.65 feet Height of Fluid Column 7.85 feet  
 Total Depth 23.50 feet Volume in Well 1.33 gallons  
 (3 Well Volumes = 4.0035 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:41 12-12-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm)          | pH   | ORP (mV) | TDS (mg/L) |
|------|-----------------|-----------------------|-----------|----------------------|------|----------|------------|
| 9:44 |                 | 1                     | 17.7      | 944.5                | 8.40 | 147      | 667.3      |
| 9:47 |                 | 2                     | 18.0      | <del>1179</del> 1179 | 7.96 | 157      | 1180       |
| 9:50 |                 | 3                     | 18.0      | 1595                 | 7.86 | 160      | 1156       |
| 9:53 |                 | 4                     | 17.9      | 1607                 | 7.77 | 161      | 1163       |
|      |                 |                       |           |                      |      |          |            |
|      |                 |                       |           |                      |      |          |            |
|      |                 |                       |           |                      |      |          |            |
|      |                 |                       |           |                      |      |          |            |

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

Time/Date Sampled 9:53 12-12-13 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 12-11-13

Site \_\_\_\_\_ Time Gauged 12:50

Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches

Depth to Water 0 feet Height of Fluid Column \_\_\_\_\_ feet

Total Depth 83.53 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<br>BO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|----|----------|------------------|
|      |                 |                       |           |             |    |          |                  |
|      |                 |                       |           |             |    |          |                  |
|      |                 |                       |           |             |    |          |                  |
|      |                 |                       |           |             |    |          |                  |
|      |                 |                       |           |             |    |          |                  |
|      |                 |                       |           |             |    |          |                  |
|      |                 |                       |           |             |    |          |                  |
|      |                 |                       |           |             |    |          |                  |
|      |                 |                       |           |             |    |          |                  |

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

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations DRY WELL

**Well Casing Volumes**

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 12-11-13  
 Site \_\_\_\_\_ Time Gauged 13:05  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 91.91 feet Height of Fluid Column 8.79 feet  
 Total Depth 100.70 feet Volume in Well 1.4943 gallons  
 (3 Well Volumes = 4.48 gallons)

GROUNDWATER SAMPLING DATA

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

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm)             | pH   | ORP (mV) | TDS DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------------------|------|----------|---------------|
| 13:15 | 1               | 1                     | 21.7      | 3561                    | 7.64 | 119      | 2734          |
| 13:19 | 1               | 2                     | 22.5      | 3525                    | 7.32 | 119      | 2678          |
| 13:24 | 1               | 3                     | 22.1      | 3530                    | 7.13 | 124      | 2640          |
| 13:28 | 1               | 4                     | 21.1      | <del>3542</del><br>3542 | 6.90 | 128      | 2642          |
| 13:30 | .5              | 4.5                   | 21.1      | 3535                    | 6.88 | 130      | 2566          |
|       |                 |                       |           |                         |      |          |               |
|       |                 |                       |           |                         |      |          |               |
|       |                 |                       |           |                         |      |          |               |

Actual Purge Volume 4.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 13:30 12-11-13 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-08 Date Gauged 12-12-13

Site \_\_\_\_\_ Time Gauged 12:06

Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches

Depth to Water 51.93 feet Height of Fluid Column 3.09 feet

Total Depth 55.02 feet Volume in Well .5253 gallons

(3 Well Volumes = 1.5759 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 12:12 12-12-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 12:14 | 1               | 1                     | 18.4      | 9529        | 7.29 | 181      | 8033          |
| 12:16 | .5              | 1.5                   | 18.5      | 4642        | 7.13 | 180      | 8130          |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |

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

Time/Date Sampled 12:16 12-12-13 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-09 Date Gauged 12-16-13

Site \_\_\_\_\_ Time Gauged 12:34

Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches

Depth to Water 55.86 feet Height of Fluid Column 6.15 feet

Total Depth 62.01 feet Volume in Well 1.0955 gallons

(3 Well Volumes = 3.1365 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:39 12-16-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 12:42 | 1               | 1                     | 21.5      | 1967        | 7.46 | 253      | 1439       |
| 12:44 | 1               | 2                     | 20.9      | 2009        | 7.24 | 254      | 1546       |
| 12:46 | 1               | 3                     | 21.2      | 2016        | 7.11 | 256      | 1523       |
| 12:47 | .25             | 3.25                  | 21.1      | 2029        | 7.06 | 257      | 1529       |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 3.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 12:47 12-16-13 Purged/Sampled By JV

Sample Method \_\_\_\_\_

Requested Analyses BAIL

Comments/Observations \_\_\_\_\_

Well Casing Volumes

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 12-16-13  
 Site \_\_\_\_\_ Time Gauged 11:20  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 81.71 feet Height of Fluid Column 12.69 feet  
 Total Depth 44.4 feet Volume in Well 2.1573 gallons  
 (3 Well Volumes = 6.47 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:30 12-16-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C)       | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------------|-------------|------|----------|------------|
| 11:35 | 1               | 1                     | 19.9            | 2350        | 8.38 | 266      | 1738       |
| 11:38 | 1               | 2                     | 19.9            | 2429        | 7.77 | 268      | 1807       |
| 11:42 | 1               | 3                     | <del>20.1</del> | 2422        | 7.54 | 271      | 1801       |
| 11:45 | 1               | 4                     | 20.1<br>20.3    | 2440        | 7.30 | 273      | 1814       |
| 11:48 | 1               | 5                     | 20.0            | 2441        | 7.38 | 267      | 1816       |
| 11:52 | 1               | 6                     | 20.1            | 2454        | 7.41 | 265      | 1823       |
| 11:55 | .5              | 6.5                   | 20.1            | 2458        | 7.44 | 261      | 1829       |
|       |                 |                       |                 |             |      |          |            |

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

Time/Date Sampled 11:55 12-16-13 Purged/Sampled By JN

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-11 Date Gauged 12-13-13

Site \_\_\_\_\_ Time Gauged 9:30

Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches

Depth to Water 21.32 feet Height of Fluid Column 26.08 feet

Total Depth 47.4 feet Volume in Well 17.2128 gallons

(3 Well Volumes = 51.6384 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:00 AM 12-13-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
|      | 47              | 47                    | 24.9      | 5437        | 6.6  | 287      | 4705          |
|      | 1               | 48                    | 25.0      | 5916        | 6.68 | 274      | 4684          |
|      | 1               | 49                    | 25.1      | 5890        | 6.54 | 254      | 4658          |
|      | 1               | 50                    | 25.1      | 5897        | 6.55 | 240      | 4666          |
|      | 1               | 51                    | 25.2      | 5898        | 6.53 | 236      | 4672          |
|      | 1               | 52                    | 25.2      | 5884        | 6.54 | 227      | 4657          |
|      |                 |                       |           |             |      |          |               |
|      |                 |                       |           |             |      |          |               |

Actual Purge Volume 57 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:39 12-13-13 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses \_\_\_\_\_

Comments/Observations IT TOOK A WHILE TO GET PUMP SET UP.

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-12 Date Gauged 12-12-13  
 Site \_\_\_\_\_ Time Gauged 9:15  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 51.15 feet Height of Fluid Column 28.27 feet  
 Total Depth 79.42 feet Volume in Well 4.8059 gallons  
 (3 Well Volumes = 14.41 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:22 12-13-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 9:40 | 8               | 8                     | 19.8      | 4633        | 7.21 | 270      | 3619          |
| 9:43 | 1               | 9                     | 19.9      | 4349        | 7.29 | 261      | 3401          |
| 9:46 | 1               | 10                    | 19.9      | 4321        | 7.12 | 256      | 3360          |
| 9:50 | 1               | 11                    | 20.0      | 4274        | 7.04 | 253      | 3314          |
| 9:53 | 1               | 12                    | 20.1      | 4228        | 6.96 | 251      | 3286          |
| 9:55 | 1               | 13                    | 20.1      | 4262        | 6.80 | 249      | 3324          |
| 9:58 | 1               | 14                    |           | 4297        | 6.78 | 243      | 3322          |
| 9:59 | .5              | 14.5                  |           | 4281        | 6.75 | 269      | 338           |

Actual Purge Volume 14.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:59 12-13-13 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 12-13-13  
 Site \_\_\_\_\_ Time Gauged 10:11  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 85.71 feet Height of Fluid Column 6.3 feet  
 Total Depth 92.01 feet Volume in Well 1.071 gallons  
 (3 Well Volumes = 3.213 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:20 12-13-13 Purged Method 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                     | 21.4      | 3180        | 7.57 | 245      | 2400           |
| 10:28                     | 1               | 2                     | 21.9      | 3116        | 7.22 | 249      | 2345           |
| <del>10:31</del><br>10:31 | 1               | 3                     | 21.4      | 3142        | 7.05 | 249      | 2362           |
| 10:32                     | .25             | 3.25                  | 21.1      | 3164        | 6.95 | 248      | 2370           |
|                           |                 |                       |           |             |      |          |                |
|                           |                 |                       |           |             |      |          |                |
|                           |                 |                       |           |             |      |          |                |
|                           |                 |                       |           |             |      |          |                |

Actual Purge Volume 3.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 10:32 12-13-13 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 DAW-14 Date Gauged 12-13-13  
 Site \_\_\_\_\_ Time Gauged 11:05  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 28.79 feet Height of Fluid Column 13.63 feet  
 Total Depth 42.42 feet Volume in Well 2.3171 gallons  
 (3 Well Volumes = 6.95 gallons)

**GROUNDWATER SAMPLING DATA**

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

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 11:13 | 1               | 1                     | 19.5      | 4949        | 7.68 | 229      | 3899       |
| 11:15 | 1               | 2                     | 19.6      | 5082        | 7.52 | 229      | 4020       |
| 11:18 | 1               | 3                     | 19.7      | 5103        | 7.38 | 231      | 4037       |
| 11:21 | 1               | 4                     | 19.9      | 5112        | 7.33 | 230      | 4042       |
| 11:25 | 1               | 5                     | 19.9      | 5095        | 7.28 | 230      | 4031       |
| 11:27 | 1               | 6                     | 19.5      | 5100        | 7.26 | 233      | 4034       |
| 11:29 | 1               | 7                     | 19.3      | 5115        | 7.34 | 232      | 4047       |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 7 gals Field Measurements stabilized within ± 10%   
 Time/Date Sampled 11:29 12-13-13 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



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID DAD-15 Date gauged 1-2-2014  
 Site \_\_\_\_\_ Time gauged 10:02  
 Depth to PSH N/A Feet Well diameter 2 Inches  
 Depth to water 95.14 Feet Height of fluid column 14.36 Feet  
 Total depth 109.50 Feet Volume in well 2.44 Gallons

(3 well volumes = 7 gallons)

GROUNDWATER SAMPLING DATA

Time/date purged 10:15/1-2-14 Purge Method Bailer

| Time  | Purge Volume (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|--------------------|-----------|-------------|------|----------|------------|
| 10:27 | 1                  | 21.9      | 2880        | 7.58 | 195      | 2173       |
| 10:36 | 2                  | 21.5      | 2833        | 7.23 | 62       | 2151       |
| 10:43 | 3                  | 21.4      | 2857        | 7.04 | 23       | 2153       |
| 10:49 | 4                  | 22.2      | 2814        | 6.97 | 33       | 2122       |
| 10:58 | 5                  | 21.8      | 2830        | 7.06 | 40       | 2131       |
| 11:07 | 6                  | 19.8      | 2871        | 7.25 | 42       | 2154       |
| 11:17 | 7                  | 20.6      | 2828        | 7.14 | 85       | 2133       |
|       |                    |           |             |      |          |            |
|       |                    |           |             |      |          |            |
|       |                    |           |             |      |          |            |
|       |                    |           |             |      |          |            |

Actual purge volume 7 gal. Field measurements stabilized within ± 10%? \_\_\_\_\_

Time/date sampled 11:18/1-2-14 Purged/sampled by Hector Diaz

Sample method Bailer

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

Comments/observations Cloudy/no odor

Well Casing Volumes

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-16 Date Gauged 12-12-13  
 Site \_\_\_\_\_ Time Gauged 11:25

Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches

Depth to Water 18.41 feet Height of Fluid Column 13.79 feet

Total Depth 32.7 feet Volume in Well 2.3443 gallons

(3 Well Volumes = 7.0329 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 11:32 12-12-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 11:36 | 1               | 1                     | 18.4      | 3413        | 7.46 | 159      | 2601          |
| 11:39 | 1               | 2                     | 18.3      | 3454        | 7.56 | 150      | 3634          |
| 11:41 | 1               | 3                     | 18.7      | 3477        | 7.41 | 113      | 2655          |
| 11:44 | 1               | 4                     | 18.7      | 3482        | 7.35 | 96       | 2658          |
| 11:46 | 1               | 5                     | 18.4      | 3501        | 7.27 | 87       | 2677          |
| 11:49 | 1               | 6                     | 18.5      | 3502        | 7.14 | 80       | 2678          |
| 11:52 | 1               | 7                     | 18.5      | 2449        | 7.17 | 77       | 2673          |
|       |                 |                       |           |             |      |          |               |

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

Time/Date Sampled 11:52 12-12-13 Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

**Well Casing Volumes**

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



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-17 Date Gauged 12-12-13  
 Site \_\_\_\_\_ Time Gauged 8:55  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches.  
 Depth to Water 20.27 feet Height of Fluid Column 18.13 feet  
 Total Depth 38.4 feet Volume in Well 3.0821 gallons  
 (3 Well Volumes = 9.2463 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:03 12-12-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS BE (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 9:09 | 3               | 3                     | 18.8      | 3715        | 7.34 | 209      | 2881          |
| 9:12 | 1               | 4                     | 18.7      | 3375        | 7.46 | 207      | 2566          |
| 9:15 | 1               | 5                     | 18.3      | 3145        | 7.31 | 206      | 2343          |
| 9:18 | 1               | 6                     | 18.4      | 3211        | 7.21 | 203      | 2426          |
| 9:21 | 1               | 7                     | 18.4      | 3040        | 7.21 | 202      | 2298          |
| 9:25 | 1               | 8                     | 18.3      | 3101        | 7.16 | 202      | 2342          |
| 9:28 | 1               | 9                     | 18.1      | 3094        | 7.07 | 201      | 2329          |
| 9:31 | 0.25            | 9.25                  | 18.1      | 3088        | 7.01 | 202      | 2317          |

Actual Purge Volume 9.25 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 9:31 12-12-13 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 12-12-13  
 Site \_\_\_\_\_ Time Gauged 9:58

Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 23.27 feet Height of Fluid Column 33.63 feet  
 Total Depth 56.9 feet Volume in Well 5.711 gallons

(3 Well Volumes = 17.153 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:23 12-12-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 10:46 | 10              | 10                    | 15.6      | 4353        | 7.43 | 95       | 3386      |
| 10:44 | 1               | 11                    | 15.7      | 4403        | 7.04 | 79       | 3428      |
| 10:52 | 1               | 12                    | 15.3      | 4407        | 6.97 | 82       | 3513      |
| 10:55 | 1               | 13                    | 15.5      | 4459        | 6.97 | 90       | 3502      |
| 10:58 | 1               | 14                    | 15.5      | 4451        | 6.93 | 92       | 3508      |
| 11:02 | 1               | 15                    | 15.4      | 4449        | 6.93 | 92       | 3501      |
| 11:05 | 1               | 16                    | 15.4      | 4443        | 6.91 | 99       | 3498      |
| 11:08 | 1               | 17                    | 15.5      | 4439        | 6.90 | 93       | 3495      |

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

Time/Date Sampled 11:08 12-12-13 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses \_\_\_\_\_

Comments/Observations STARTED TO ~~SLIGHTLY~~ SLIGHTLY RAIN. WAITED TO LET PASS TO BEGIN BAIL PROCESS.

Well Casing Volumes

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 JAD-14 Date Gauged 12-12-13  
 Site \_\_\_\_\_ Time Gauged 12:34  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 63.97 feet Height of Fluid Column 35.28 feet  
 Total Depth 99.25 feet Volume in Well 5.976 gallons  
 (3 Well Volumes = 17.928 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:42 12-12-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | <sup>703</sup> BO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|--------------------------|
| 13:15 | 11              | 11                    | 17.7      | 5151        | 7.49 | 213      | 4034                     |
| 13:18 | 1               | 12                    | 17.6      | 4911        | 7.16 | 208      | 3875                     |
| 13:21 | 1               | 13                    | 17.8      | 4904        | 7.16 | 204      | 3864                     |
| 13:24 | 1               | 14                    | 17.8      | 4894        | 6.88 | 200      | 3871                     |
| 13:28 | 1               | 15                    | 17.8      | 4815        | 6.85 | 202      | 3793                     |
| 13:31 | 1               | 16                    | 17.7      | 4955        | 6.86 | 201      | 3909                     |
| 13:34 | 1               | 17                    | 17.6      | 4998        | 6.81 | 201      | 3946                     |
| 13:38 | 1               | 18                    | 17.7      | 5013        | 6.75 | 201      | 3952                     |

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

Time/Date Sampled 13:38 12-12-13 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-20 Date Gauged 12-16-13  
 Site \_\_\_\_\_ Time Gauged 12:54  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 53.34 feet Height of Fluid Column 15.66 feet  
 Total Depth 69.0 feet Volume in Well 2.6622 gallons  
 (3 Well Volumes = 7.98 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:02 12-16-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L)           |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|----------------------|
| 13:05 | 1               | 1                     | 20.8      | 2645        | 7.39 | 251      | 2781                 |
| 13:08 | 1               | 2                     | 21.1      | 3660        | 7.07 | 253      | 2746                 |
| 13:11 | 1               | 3                     | 21.6      | 3573        | 7.03 | 249      | 2722                 |
| 13:15 | 1               | 4                     | 21.4      | 3565        | 7.02 | 247      | 2713                 |
| 13:18 | 1               | 5                     | 21.4      | 3543        | 7.04 | 246      | 2695                 |
| 13:21 | 1               | 6                     | 21.5      | 3565        | 7.06 | 246      | <del>2739</del> 2739 |
| 13:24 | 1               | 7                     | 21.6      | 3564        | 6.97 | 246      | 2742                 |
| 13:26 | 1               | 8                     | 21.5      |             |      | 245      |                      |

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

Time/Date Sampled 13:26 12-16-13 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 12-16-13  
 Site \_\_\_\_\_ Time Gauged 12:03  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 54.43 feet Height of Fluid Column 15.4 feet  
 Total Depth 69.03 feet Volume in Well 2.618 gallons  
 (3 Well Volumes = 7.854 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:08 12-16-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 12:10 | 1               | 1                     | 21.2      | 3206        | 7.34 | 247      | 2428          |
| 12:13 | 1               | 2                     | 21.3      | 3209        | 7.10 | 249      | 2421          |
| 12:15 | 1               | 3                     | 21.2      | 3197        | 7.04 | 252      | 2413          |
| 12:17 | 1               | 4                     | 21.3      | 3189        | 7.0  | 253      | 2407          |
| 12:20 | 1               | 5                     | 21.4      | 3182        | 6.97 | 251      | 2399          |
| 12:22 | 1               | 6                     | 21.3      | 3177        | 6.94 | 254      | 2401          |
| 12:25 | 1               | 7                     | 21.3      | 3170        | 6.93 | 255      | 2395          |
| 12:27 | 1               | 8                     | 21.1      | 3171        | 6.91 | 255      | 2391          |

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

Time/Date Sampled 12:27 12-16-13 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-22 Date Gauged 12-13-13  
 Site \_\_\_\_\_ Time Gauged 12:05  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 46.10 feet Height of Fluid Column 3.82 feet  
 Total Depth 50.00 feet Volume in Well 6494 gallons  
 (3 Well Volumes = 1.94 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:12 12-13-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 12:15 | 1               | 1                     | 20.8      | 4025        | 8.17 | 219      | 3101          |
| 12:18 | 1               | 2                     |           | 3998        | 7.76 | 221      | 3113          |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |

Actual Purge Volume 2 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 12:18 12-13-13 Purged/Sampled By JV  
 Sample Method \_\_\_\_\_  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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









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

Company Name: **Oil & Petroleum - Environmental**  
 Address: **1221 Tower Trail W. El Paso, TX 79907**  
 Contact Person: **VICTOR AYALA**  
 Invoice to: **DONA ANA DAIRIES CONSORTIUM**  
 Project #: **429539**  
 Project Location: **VARIOUS DAIRIES, DONA ANA COUNTY, NM**  
 Phone #: **915-859-8150**  
 Fax #: \_\_\_\_\_  
 E-mail: **VAYALA@DHIRMP.COM**  
 Project Name: **DONA ANA DAIRIES**  
 Sampler Signature: **[Signature]**

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | PRESERVATIVE METHOD |                  |                                |      | MATRIX | SAMPLING |      |          |       |
|-------------------------|------------|--------------|---------------|---------------------|------------------|--------------------------------|------|--------|----------|------|----------|-------|
|                         |            |              |               | HCL                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH |        | ICE      | NONE | DATE     | TIME  |
|                         | DAD-19     | 1            | 250           | X                   |                  | X                              |      | WATER  |          |      | 12-12-13 | 13:30 |
|                         | DAD-19     | 1            | 250           |                     |                  |                                |      | AIR    | X        | X    | 12-12-13 | 13:30 |
|                         |            |              |               |                     |                  |                                |      | SOIL   |          |      |          |       |
|                         |            |              |               |                     |                  |                                |      | SLUDGE |          |      |          |       |

## ANALYSIS REQUEST (Circle or Specify Method No.)

|                          |  |
|--------------------------|--|
| <input type="checkbox"/> | MTBE 8021B / 602 / 8260B / 624                     |
| <input type="checkbox"/> | BTEX 8021B / 602 / 8260B / 624                     |
| <input type="checkbox"/> | TPH 418.1 / TX1005 / DRO / TVHC                    |
| <input type="checkbox"/> | PAH 8270C / 625                                    |
| <input type="checkbox"/> | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7 |
| <input type="checkbox"/> | TCLP Metals Ag As Ba Cd Cr Pb Se Hg                |
| <input type="checkbox"/> | TCLP Volatiles                                     |
| <input type="checkbox"/> | TCLP Semi Volatiles                                |
| <input type="checkbox"/> | TCLP Pesticides                                    |
| <input type="checkbox"/> | RCI  |
| <input type="checkbox"/> | GCMS Vol. 8260B / 624                              |
| <input type="checkbox"/> | GCMS Semi. Vol. 8270C/625                          |
| <input type="checkbox"/> | PCBs 8082 / 608                                    |
| <input type="checkbox"/> | Pesticides 8081A / 608                             |
| <input type="checkbox"/> | BOD, TSS, pH                                       |
| <input type="checkbox"/> | Moisture Content                                   |
| <input type="checkbox"/> | Total Kjeldahl nitrogen SM 4500 NORG C             |
| <input type="checkbox"/> | Nitrate EPA 300.0                                  |
| <input type="checkbox"/> | Chloride EPA 300.0                                 |
| <input type="checkbox"/> | Total Dissolved Solids SM 2540 C MOD               |
| <input type="checkbox"/> | Turn Around Time if different from standard        |

LAB USE ONLY

REMARKS: **On Ice**  
**TKW in Lubbock**

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

Carrier # **Cady J**





# TraceAnalysis, Inc.

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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 AYALA**

E-mail: **VAYALA@DHPUMP.COM**

Invoice to: **DONA ANA DAIRIES CONSORTIUM**

Project Name: **LINDA ARNSTRONG 575-233-3620**

Project #: **429539**

Project Name: **DONA ANA DAIRIES**

Project Location: **VARIOUS DAIRIES, ANTHONY, NM**

Sampler Signature: *[Signature]*

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |     |        |   | PRESERVATIVE METHOD            |      |     |      | SAMPLING |       |  |
|-------------------------|------------|--------------|---------------|--------|-----|--------|---|--------------------------------|------|-----|------|----------|-------|--|
|                         |            |              |               | WATER  | AIR | SLUDGE |   | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE     | TIME  |  |
|                         | DAD-11     | 1            | 20            |        |     |        | X | X                              | X    | X   |      |          | 10:39 |  |
|                         | DAD-11     | 1            |               |        |     |        | X | X                              | X    | X   |      |          | 10:39 |  |
|                         | DAD-10     | 1            |               |        |     |        | X | X                              | X    | X   |      |          | 11:55 |  |
|                         | DAD-10     | 1            |               |        |     |        | X | X                              | X    | X   |      |          | 11:55 |  |
|                         | DAD-09     | 1            |               |        |     |        | X | X                              | X    | X   |      |          | 12:47 |  |
|                         | DAD-09     | 1            |               |        |     |        | X | X                              | X    | X   |      |          | 12:47 |  |
|                         | DAD-21     | 1            |               |        |     |        | X | X                              | X    | X   |      |          | 12:27 |  |
|                         | DAD-20     | 1            |               |        |     |        | X | X                              | X    | X   |      |          | 12:27 |  |
|                         | DAD-20     | 1            |               |        |     |        | X | X                              | X    | X   |      |          | 13:26 |  |

|                                     |                      |                       |                    |                                 |                      |                       |                    |
|-------------------------------------|----------------------|-----------------------|--------------------|---------------------------------|----------------------|-----------------------|--------------------|
| Relinquished by: <i>[Signature]</i> | Company: <b>D-H</b>  | Date: <b>12-16-13</b> | Time: <b>14:15</b> | Received by: <i>[Signature]</i> | Company: <b>TRAP</b> | Date: <b>12-16-13</b> | Time: <b>14:15</b> |
| Relinquished by: <i>[Signature]</i> | Company: <b>TRAP</b> | Date: <b>12-16-13</b> | Time: <b>16:30</b> | Received by: <i>[Signature]</i> | Company: <b>TRAP</b> | Date: <b>12-16-13</b> | Time: <b>16:30</b> |
| Relinquished by: <i>[Signature]</i> | Company: <b>TRAP</b> | Date: <b>12-16-13</b> | Time: <b>16:30</b> | Received by: <i>[Signature]</i> | Company: <b>TRAP</b> | Date: <b>12-16-13</b> | Time: <b>16:30</b> |

## ANALYSIS REQUEST (Circle or Specify Method No.)

|  |   |
|--|---|
| MTBE 8021B / 602 / 8260B / 624                     |   |
| BTEX 8021B / 602 / 8260B / 624                     |   |
| TPH 418.1 / TX1005 / DRO / TVHC                    |   |
| PAH 8270C / 625                                    |   |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7 |   |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg                |   |
| TCLP Volatiles                                     |   |
| TCLP Semi Volatiles                                |   |
| TCLP Pesticides                                    |   |
| RCI  |   |
| GC/MS Vol. 8260B / 824                             |   |
| GC/MS Semi. Vol. 8270C/625                         |   |
| PCBs 8082 / 608                                    |   |
| Pesticides 8081A / 608                             |   |
| BOD, TSS, pH                                       |   |
| Moisture Content                                   |   |
| Total kjeldhal nitrogen SM 4500 NORG C             | X |
| Nitrate EPA 300.0                                  | X |
| Chloride EPA 300.0                                 | X |
| Total Dissolved Solids SM 2540 C MOD               | X |
| Turn Around Time if different from standard        |   |

REMARKS: **C1, NO<sub>2</sub>, TDS**

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed


|              |                  |
|--------------|------------------|
| LAB USE ONLY | INST <b>222</b>  |
| LAB USE ONLY | OBS <b>2</b>     |
| LAB USE ONLY | COR <b>2</b>     |
| LAB USE ONLY | INST <b>1415</b> |
| LAB USE ONLY | OBS <b>1415</b>  |
| LAB USE ONLY | COR <b>1415</b>  |

Carrier # *[Signature]*

LAB Order ID # \_\_\_\_\_



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



| LAB #  | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | Sampling |      | TIME   |       |  |
|--------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|----------|------|--------|-------|--|
|        |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE     | DATE |        | TIME  |  |
| BAD-09 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-09 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-10 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-10 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-11 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-11 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-12 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-12 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-13 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-13 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-14 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-14 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-15 |            | 1            | 250ml         | X      |      |     |        | X                   |                  |                                |      | X   |          |      | 1-2-14 | 11:18 |  |
| DAD-15 |            | 1            | 250ml         | X      |      |     |        | X                   |                  |                                |      | X   |          |      | 2-2-14 | 11:18 |  |
| BAD-16 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |
| BAD-16 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X   |          |      |        |       |  |

Project Name: Linda Armstrong 575-233-3620  
 Dona Ana Dairies Consortium  
 Sampler Signature: 

Company Name: TraceAnalysis, Inc.  
 155 McCutcheon, Ste. H El Paso, TX 79932  
 Tel (915) 585-3443 Fax (915) 585-4844  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
 E-mail: vajala@dhpump.com

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): Dona Ana Dairies, PO Box 10, Mesquite, NM 88048  
 Project #: 429539  
 Project Location (including state): Various Dairies, Dona Ana County, NM

Relinquished By:  Date: 1-2-2014 12:15  
 Received By:  Date: 1-2-14 12:15  
 Time: 12:15

Relinquished By:  Date: 1-2-2014 12:15  
 Received at Laboratory By:  Date: 1-2-14 12:15  
 Time: 12:15

Remarks: C5, NO3, TDS in SP  
 Lab Use Only  
 Headspace Y/N  
 Temp 47.2  
 Log-in Review  
 Dry Weight Basis Required  
 TRRP Report Required



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-01 Date Gauged 11-18-13  
 Site PONZALE Time Gauged 1:45  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches  
 Depth to Water 18.03 feet Height of Fluid Column 7.37 feet  
 Total Depth 25.4 feet Volume in Well 4.8642 gallons  
 (3 Well Volumes = 14.59 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1:50 11-18-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 1:56 | 8               | 8                     | 22.3      | 5981        | 7.96 | 177      | 4774      |
| 1:57 | 1               | 9                     | 21.4      | 5960        | 7.49 | 177      | 4763      |
| 1:58 | 1               | 10                    | 21.5      | 5966        | 7.40 | 175      | 4767      |
| 1:59 | 1               | 11                    | 21.1      | 6034        | 7.29 | 172      | 4829      |
| 2:00 | 1               | 12                    | 21.2      | 5999        | 7.18 | 169      | 4799      |
| 2:01 | 1               | 13                    | 21.2      | 6001        | 7.18 | 168      | 4790      |
| 2:02 | 1               | 14                    | 21.2      | 6008        | 7.17 | 167      | 4794      |
| 2:03 | .5              | 14.5                  | 21.2      | 6005        | 7.17 | 166      | 4798      |

Actual Purge Volume 14.5 gals Field Measurements stabilized within ± 10%   
 Time/Date Sampled 2:03 11-18-13 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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-02 Date Gauged 11-18-13  
 Site GONZALES Time Gauged 2:15  
 Depth to PSH 0 feet Well Diameter 4 1/2 inches  
 Depth to Water 18.83 feet Height of Fluid Column 6.67 feet  
 Total Depth 25.5 feet Volume in Well 4.4022 gallons  
 (3 Well Volumes = 13.2066 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 2:20 11-18-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 2:26 | 6               | 6                     | 22.2      | 4685        | 7.69 | 181      | 3642      |
| 2:27 | 1               | 7                     | 22.0      | 4639        | 7.43 | 183      | 3615      |
| 2:28 | 1               | 8                     | 21.9      | 4620        | 7.34 | 182      | 3631      |
| 2:29 | 1               | 9                     | 21.6      | 4668        | 7.26 | 181      | 3631      |
| 2:30 | 1               | 10                    | 21.8      | 4653        | 7.19 | 181      | 3626      |
| 2:31 | 1               | 11                    | 21.7      | 4661        | 7.17 | 182      | 3624      |
| 2:32 | 1               | 12                    | 21.5      | 4666        | 7.15 | 181      | 3624      |
| 2:34 | 1               | 13                    | 21.4      | 4664        | 7.14 | 181      | 3623      |

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

Time/Date Sampled 2:34 11-18-13 Purged/Sampled By W

Sample Method BAIL

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

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



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 117-03 Date Gauged 11-18-13  
 Site GONZALEZ Time Gauged 11:55  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 21.04 feet Height of Fluid Column 26.36 feet  
 Total Depth 47.4 feet Volume in Well 17.39 gallons  
 (3 Well Volumes = 52 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:59 11-18-13 Purged Method BAL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 12:47 | 45              | 45                    | 25.3      | 4768        | 7.65 | 170      | 3707      |
| 12:49 | 1               | 46                    | 25.3      | 4788        | 7.13 | 171      | 3729      |
| 12:51 | 1               | 47                    | 24.9      | 4818        | 7.00 | 171      | 3746      |
| 12:53 | 1               | 48                    | 24.5      | 4812        | 6.93 | 172      | 3747      |
| 12:55 | 1               | 49                    | 24.7      | 4787        | 6.90 | 172      | 3728      |
| 12:57 | 1               | 50                    | 24.5      | 4829        | 6.83 | 171      | 3765      |
| 12:59 | 1               | 51                    | 24.4      | 4823        | 6.80 | 171      | 3758      |
| 1:00  | 1               | 52                    | 24.4      | 4826        | 6.78 | 172      | 3756      |

Actual Purge Volume 52 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 1:00 11-18-13 Purged/Sampled By N

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 gal/ft

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-04 Date Gauged 11-18-13  
 Site BRUNZALTZ Time Gauged 10:38  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 25.05 feet Height of Fluid Column 21.25 feet  
 Total Depth 46.3 feet Volume in Well 14.025 gallons  
 (3 Well Volumes = 42.075 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:43 11-18-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 11:29 | 35              | 35                    | 20.4      | 6004        | 7.65 | 119      | 4814      |
| 11:31 | 1               | 36                    | 20.8      | 5999        | 7.32 | 123      | 4805      |
| 11:33 | 1               | 37                    | 20.7      | 6098        | 7.14 | 127      | 4894      |
| 11:35 | 1               | 38                    | 20.6      | 6040        | 7.03 | 129      | 4837      |
| 11:36 | 1               | 39                    | 20.8      | 6124        | 7.00 | 131      | 4914      |
| 11:37 | 1               | 40                    | 20.8      | 6097        | 6.98 | 132      | 4888      |
| 11:39 | 1               | 41                    | 20.7      | 6092        | 6.92 | 135      | 4884      |
| 11:40 | 1               | 42                    | 20.7      | 6088        | 6.90 | 135      | 4879      |

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

Time/Date Sampled 11:40 11-18-13 Purged/Sampled By BAIL JN

Sample Method BAIL

Requested Analyses \_\_\_\_\_

Comments/Observations \_\_\_\_\_

Well Casing Volumes

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



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-05 Date Gauged 11-18-13  
 Site CUNZALEZ Time Gauged 9:33  
 Depth to PSH 8 feet Well Diameter 4" inches  
 Depth to Water 37.16 feet Height of Fluid Column 11.74 feet  
 Total Depth 48.9 feet Volume in Well 7.7484 gallons  
 (3 Well Volumes = 23.24 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:45 11-18-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 10:16 | 16              | 16                    | 20.5      | 5679        | 8.15 | 189      | 4542      |
| 10:18 | 1               | 17                    | 20.0      | 5648        | 7.80 | 189      | 4540      |
| 10:20 | 1               | 18                    | 20.3      | 6742        | 7.37 | 180      | 4551      |
| 10:22 | 1               | 19                    | 20.2      | 5966        | 7.46 | 177      | 4776      |
| 10:25 | 1               | 20                    | 20.2      | 5874        | 7.34 | 174      | 4669      |
| 10:27 | 1               | 21                    | 20.4      | 5880        | 7.28 | 174      | 4709      |
| 10:29 | 1               | 22                    | 20.1      | 5872        | 7.27 | 173      | 4711      |
| 10:31 | 1               | 23                    | 20.1      | 5868        | 7.25 | 174      | 4708      |

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

Time/Date Sampled 10:31 11-18-13 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





ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-06 Date Gauged 11-18-13  
 Site CONZALEZ Time Gauged 9:10 AM  
 Depth to PSH 8 feet Well Diameter 4" inches  
 Depth to Water 51.67 feet Height of Fluid Column .13 feet  
 Total Depth 51.8 feet Volume in Well .0858 gallons  
 (3 Well Volumes = .2574 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 NOT GROUND WATER. BAL WOULD NOT PICK UP WATER.

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

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 177-07 Date Gauged 11-18-13  
 Site \_\_\_\_\_ Time Gauged 1:07  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches  
 Depth to Water 45.71 feet Height of Fluid Column 8.44 feet  
 Total Depth 54.2 feet Volume in Well 5.6034 gallons  
 (3 Well Volumes = 16.81 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1:13 11-18-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 1:28 | 9               | 9                     | 20.9      | 4749        | 7.92 | 195      | 3720      |
| 1:30 | 1               | 10                    | 20.6      | 4719        | 7.62 | 197      | 3688      |
| 1:31 | 1               | 11                    | 20.5      | 4710        | 7.45 | 196      | 3687      |
| 1:33 | 1               | 12                    | 20.5      | 4701        | 7.33 | 196      | 3680      |
| 1:34 | 1               | 13                    | 20.5      | 4709        | 7.25 | 194      | 3685      |
| 1:36 | 1               | 14                    | 20.4      | 4713        | 7.19 | 193      | 3692      |
| 1:37 | 1               | 15                    | 20.4      | 4710        | 7.14 | 192      | 3688      |
| 1:38 | 1               | 16                    | 20.5      | 4709        | 7.14 | 189      | 3689      |

Actual Purge Volume 16 gals Field Measurements stabilized within ± 10%   
 Time/Date Sampled 1:38 11-18-13 Purged/Sampled By M  
 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



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

**TraceAnalysis, Inc.**  
 Company Name: \_\_\_\_\_  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 Address: (Street, City, Zip) vajala@dhpump.com  
 1221 Tower Trail Ln, El Paso TX 79907  
 E-mail: \_\_\_\_\_

Contact Person: \_\_\_\_\_  
 Victor Ayala  
 Invoice to (if different from above): \_\_\_\_\_  
 Gonzalez Dairy, PO Box 199, Mesquite, NM 88048  
 Project #: \_\_\_\_\_  
 Project Name: Joe Gonzalez 575-233-4801  
 Gonzalez Dairy Inc.  
 Sampler Signature: *July*

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

| LAB #    | Field Code | # Containers | Volume/Amount | MATRIX |     |        | PRESERVATIVE METHOD |                  |                                |      | Sampling |          |       |
|----------|------------|--------------|---------------|--------|-----|--------|---------------------|------------------|--------------------------------|------|----------|----------|-------|
|          |            |              |               | WATER  | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE     | DATE  |
| 177-01   |            | 1            | 250           | X      |     |        | X                   | X                | X                              | X    | X        | 11-18-13 | 14:03 |
| 177-01   |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        | 14:03    | 14:03 |
| 177-02   |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        | 14:34    | 14:34 |
| 177-02   |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        | 14:34    | 14:34 |
| 177-03   |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        | 13:00    | 13:00 |
| 177-03   |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        | 13:00    | 13:00 |
| 177-04   |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        | 11:40    | 11:40 |
| 177-04   |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        | 11:40    | 11:40 |
| 177-05   |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        | 10:31    | 10:31 |
| 177-05   |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        | 10:31    | 10:31 |
| 177-06   |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        | 13:38    | 13:38 |
| 177-06   |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        | 13:38    | 13:38 |
| 177-07 R |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        |          |       |
| 177-07 R |            | 1            |               | X      |     |        | X                   | X                | X                              | X    | X        |          |       |

Relinquished By: *July* Date: 11/18/13 Time: 14:47  
 Received By: *[Signature]* Date: 11/18/13 Time: 14:07

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**ANALYSIS REQUEST**

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

Remarks: NO<sub>3</sub>, Cr, TDS at 57  
 15012  
 Dry Weight Basis Required  
 TRRP Report Required







ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 70-01 Date Gauged 11/6/13  
 Site Mountain View Time Gauged 9:17  
 Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 35.67 feet Height of Fluid Column 9.93 feet  
 Total Depth 45.60 feet Volume in Well 6.55 gallons  
 (3 Well Volumes = 19.66 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:15 11/14/13 Purged Method Benton

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 8:20 | 3               |                       | 18.2      | 41.81       | 7.21 | 208      | 3242       |
| 8:28 | 3               |                       | 18.2      | 41.74       | 7.14 | 206      | 3238       |
| 8:37 | 3               |                       | 18.5      | 41.58       | 7.02 | 207      | 3228       |
| 8:46 | 3               |                       | 18.7      | 41.50       | 6.99 | 208      | 3221       |
| 8:55 | 3               |                       | 18.6      | 41.49       | 6.94 | 208      | 3223       |
| 9:04 | 3               |                       | 18.4      | 41.50       | 6.95 | 209      | 3225       |
| 9:10 | 1.5             |                       | 18.2      | 41.52       | 6.94 | 209      | 3226       |
|      |                 |                       |           |             |      |          |            |

Actual Purge Volume 19.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 9:15 11/14/13 Purged/Sampled By [Signature]  
 Sample Method Benton  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 70-03 Date Gauged 11/6/13  
 Site mountain view Time Gauged 7:50  
 Depth to PSH 8 feet Well Diameter 4" inches  
 Depth to Water 55.93 feet Height of Fluid Column 5.32 feet  
 Total Depth 61.25 feet Volume in Well 3.51 gallons  
 (3 Well Volumes = 10.53 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:28 11/14/13 Purged Method Bailer

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 7:30 | 2               |                       | 18.5      | 10.40       | 7.16 | 226      | 8862       |
| 7:35 | 2               |                       | 19.6      | 10.62       | 7.10 | 219      | 9051       |
| 7:41 | 2               |                       | 19.4      | 10.55       | 7.01 | 214      | 9001       |
| 7:47 | 2               |                       | 19.2      | 10.60       | 7.03 | 200      | 9009       |
| 7:52 | 2               |                       | 19.3      | 10.57       | 7.00 | 198      | 9011       |
| 7:56 | .5              |                       | 19.3      | 10.54       | 6.92 | 197      | 9012       |
|      |                 |                       |           |             |      |          |            |
|      |                 |                       |           |             |      |          |            |

Actual Purge Volume 10.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 8:00 11/14/13 Purged/Sampled By [Signature]  
 Sample Method Bailer  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 70-02 Date Gauged 11/6/13  
 Site Mountain View Time Gauged 9:48

Depth to PSH 0 feet Well Diameter 4" inches  
 Depth to Water 45.31 feet Height of Fluid Column 4.29 feet  
 Total Depth 49.60 feet Volume in Well 2.83 gallons  
 (3 Well Volumes = 8.49 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:25 11/14/13 Purged Method Bailor

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS <del>DO</del> (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|--------------------------|
| 9:29 | 2               |                       | 19.7      | 4937        | 7.62 | 239      | 3902                     |
| 9:34 | 2               |                       | 19.9      | 4940        | 7.57 | 237      | 3897                     |
| 9:39 | 2               |                       | 19.6      | 4949        | 7.54 | 238      | 3895                     |
| 9:45 | 2               |                       | 19.5      | 4951        | 7.50 | 237      | 3896                     |
| 9:50 | 5               |                       | 19.8      | 4948        | 7.48 | 237      | 3893                     |
|      |                 |                       |           |             |      |          |                          |
|      |                 |                       |           |             |      |          |                          |
|      |                 |                       |           |             |      |          |                          |

Actual Purge Volume 8.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 9:52 11/14/13 Purged/Sampled By [Signature]  
 Sample Method Bailor  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

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



ATTACHMENT E  
MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 20-04 Date Gauged 11/7/13  
 Site Mountain View Time Gauged 13:53

Depth to PSH 0 feet Well Diameter 2" inches  
 Depth to Water 34.05 feet Height of Fluid Column 13.73 feet  
 Total Depth 47.78 feet Volume in Well 2.33 gallons

(3 Well Volumes = 7.00 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:44 w/14/13 Purged Method Bailor

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 10:49 | 1.5             |                       | 19.8      | 4024        | 7.82 | 234      | 3111       |
| 10:01 | 1.5             |                       | 19.7      | 4030        | 7.79 | 228      | 3113       |
| 11:14 | 1.5             |                       | 19.9      | 4029        | 7.60 | 224      | 3115       |
| 11:21 | 1.5             |                       | 20.3      | 4027        | 7.59 | 224      | 3112       |
| 11:29 | 1               |                       | 20.6      | 4025        | 7.58 | 224      | 3110       |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |
|       |                 |                       |           |             |      |          |            |

Actual Purge Volume 7 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 11:31 w/14/13 Purged/Sampled By [Signature]  
 Sample Method Bailor  
 Requested Analyses \_\_\_\_\_  
 Comments/Observations \_\_\_\_\_

Well Casing Volumes  
 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 167-01 Date Gauged 12-10-13  
 Site RIVER VALLEY Time Gauged 10:16  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches  
 Depth to Water 17.24 feet Height of Fluid Column 89.91 feet  
 Total Depth 107.15 feet Volume in Well 59.34 gallons  
 (3 Well Volumes = 178.02 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) |
|-----------------------------------|-----------------|-----------------------|-----------|-------------|----|----------|-----------|
|                                   |                 |                       |           |             |    |          |           |
| NOT SCHEDULED TO BE SAMPLED       |                 |                       |           |             |    |          |           |
| per email 10/4/13 - Teri McMillon |                 |                       |           |             |    |          |           |
|                                   |                 |                       |           |             |    |          |           |
|                                   |                 |                       |           |             |    |          |           |
|                                   |                 |                       |           |             |    |          |           |

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

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By JV

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations WELL WAS COVERED WITH BRANCHES, BUSHES AND TRASH. HAD TO REMOVE WITH SHOVEL.

Well Casing Volumes

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 167-01A Date Gauged 12-10-13  
 Site RIVER VALLEY Time Gauged 11:00  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 18.02 feet Height of Fluid Column 7.24 feet  
 Total Depth 25.24 feet Volume in Well 1.2308 gallons  
 (3 Well Volumes = 3.69 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:00 12-10-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 11:08 | 1               | 1                     | 18.2      | 4131        | 7.78 | 85       | 3213      |
| 11:10 | 1               | 2                     | 19.0      | 4126        | 7.62 | 82       | 3207      |
| 11:13 | 1               | 3                     | 18.9      | 4107        | 7.48 | 84       | 3176      |
| 11:15 | .75             | 3.75                  | 19.1      | 4098        | 7.31 | 84       | 3179      |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |

Actual Purge Volume 3.75 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:15 12-10-13 Purged/Sampled By JU

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 167-02 Date Gauged 12-10-13  
 Site River Valley Time Gauged 11:22

Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches  
 Depth to Water 8 feet Height of Fluid Column \_\_\_\_\_ feet  
 Total Depth 20.94 feet Volume in Well \_\_\_\_\_ gallons  
 (10 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) |
|------|-----------------|------------------------|-----------|-------------|----|----------|-----------|
|      |                 |                        |           |             |    |          |           |
|      |                 |                        |           |             |    |          |           |
|      |                 |                        |           |             |    |          |           |
|      |                 |                        |           |             |    |          |           |
|      |                 |                        |           |             |    |          |           |
|      |                 |                        |           |             |    |          |           |
|      |                 |                        |           |             |    |          |           |
|      |                 |                        |           |             |    |          |           |

**DRY**

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

Time/Date Sampled \_\_\_\_\_ Purged/Sampled By \_\_\_\_\_

Sample Method \_\_\_\_\_

Requested Analyses \_\_\_\_\_

Comments/Observations DRY WELL

Well Casing Volumes

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 12-10-13  
 Site RIVER VALLEY Time Gauged 11:35  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches  
 Depth to Water 24.93 feet Height of Fluid Column 15.84 feet  
 Total Depth 40.77 feet Volume in Well 10.46 gallons  
 (10 Well Volumes = 31.4028 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:40 12-10-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 12:24 | 25              | 25                    | 20.7      | 3553        | 7.58 | 113      | 2711      |
| 12:28 | 1               | 26                    | 20.2      | 3536        | 7.28 | 114      | 2717      |
| 12:31 | 1               | 27                    | 20.3      | 3528        | 7.16 | 118      | 2691      |
| 12:33 | 1               | 28                    | 19.9      | 3470        | 7.34 | 120      | 2655      |
| 12:35 | 1               | 29                    | 19.8      | 3510        | 7.15 | 122      | 2685      |
| 12:38 | 1               | 30                    | 19.9      | 3522        | 7.09 | 125      | 2735      |
| 12:40 | 1               | 31                    | 19.9      | 3529        | 7.09 | 122      | 2729      |
| 12:41 | .5              | 31.5                  | 19.8      | 3535        | 7.08 | 124      | 2734      |

Actual Purge Volume 31.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:41 12-10-13 Purged/Sampled By N

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 167-04 Date Gauged 12-10-13  
 Site: RIVER VALLEY Time Gauged 12:46

Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 26.67 feet Height of Fluid Column 2.62 feet  
 Total Depth 29.29 feet Volume in Well .4454 gallons  
 (10 Well Volumes = 1.33 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:52 12-10-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 12:54 | 1               | 1                     | 19.3      | 6001        | 7.49 | 155      | 4794      |
| 12:55 | .5              | 1.5                   | 19.4      | 5900        | 7.15 | 152      | 4729      |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |

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

Time/Date Sampled 12:55 12-10-13 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 12-10-13  
 Site RIVER VALLEY Time Gauged 13:31

Depth to PSH \_\_\_\_\_ feet Well Diameter \_\_\_\_\_ inches  
 Depth to Water 16.53 feet Height of Fluid Column 5.27 feet  
 Total Depth 21.82 feet Volume in Well .8793 gallons  
 (3 Well Volumes = 2.61 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:36 12-10-13 Purged Method BAIL

| Time                    | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C)   | SpC (µs/cm) | pH          | ORP (mV)   | DO (mg/L)   |
|-------------------------|-----------------|-----------------------|-------------|-------------|-------------|------------|-------------|
| <u>13:39</u>            | <u>1</u>        | <u>1</u>              | <u>18.8</u> | <u>5063</u> | <u>7.41</u> | <u>188</u> | <u>4000</u> |
| <u>13:41</u>            | <u>1</u>        | <u>2</u>              | <u>19.1</u> | <u>5017</u> | <u>7.26</u> | <u>187</u> | <u>3969</u> |
| <u><del>13:43</del></u> | <u>.75</u>      | <u>2.75</u>           | <u>19.3</u> | <u>5007</u> | <u>7.18</u> | <u>187</u> | <u>3961</u> |
|                         |                 |                       |             |             |             |            |             |
|                         |                 |                       |             |             |             |            |             |
|                         |                 |                       |             |             |             |            |             |
|                         |                 |                       |             |             |             |            |             |
|                         |                 |                       |             |             |             |            |             |

Actual Purge Volume 2.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_

Time/Date Sampled 13:43 12-10-13 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 167-06 Date Gauged 12-10-13  
 Site RIVER VALLEY Time Gauged 9:33  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 31.12 feet Height of Fluid Column 4.57 feet  
 Total Depth 35.69 feet Volume in Well .07769 gallons  
 (3 Well Volumes = 2.33 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:40 12-10-13 Purged Method BAIL

| Time | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 9:43 | 1               | 1                     | 20.3      | 4220        | 7.85 | 200      | 3301      |
| 9:46 | 1               | 2                     | 20.1      | 4220        | 7.31 | 203      | 3295      |
| 9:47 | .5              | 2.5                   | 20.4      | 4184        | 7.06 | 208      | 3242      |
|      |                 |                       |           |             |      |          |           |
|      |                 |                       |           |             |      |          |           |
|      |                 |                       |           |             |      |          |           |
|      |                 |                       |           |             |      |          |           |
|      |                 |                       |           |             |      |          |           |

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

Time/Date Sampled 9:48 12-10-13 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 12-10-13  
 Site RIVER VALLEY Time Gauged 10:25  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 17.34 feet Height of Fluid Column 7.75 feet  
 Total Depth 25.09 feet Volume in Well 1.3175 gallons  
 (10 Well Volumes = 3.95 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:30 12-10-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 10:32 | 1               | 1                     | 19.8      | 2223        | 8.36 | -81      | 1658      |
| 10:34 | 1               | 2                     | 19.4      | 2283        | 7.90 | -142     | 1694      |
| 10:36 | 1               | 3                     | 19.0      | 2449        | 7.64 | -133     | 1824      |
| 10:38 | 1               | 4                     |           | 2353        | 7.52 | -130     | 1743      |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |

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

Time/Date Sampled 10:38 12-10-13 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 167-08 Date Gauged 12-11-13

Site RIVER VALLEY Time Gauged 9:26

Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches

Depth to Water 17.65 feet Height of Fluid Column 13.18 feet

Total Depth 30.83 feet Volume in Well 2.2406 gallons

(3 Well Volumes = 6.72 gallons)

**GROUNDWATER SAMPLING DATA**

Time/date Purged 9:31 12-11-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 9:30  | 1               | 1                     | 16.3      | 4627        | 7.70 | 234      | 3854      |
| 9:41  | 1               | 2                     | 17.4      | 4738        | 7.39 | 219      | 3725      |
| 9:45  | 1               | 3                     | 17.8      | 4679        | 7.36 | 210      | 3677      |
| 9:49  | 1               | 4                     | 16.9      | 4674        | 7.27 | 198      | 3678      |
| 9:54  | 1               | 5                     | 17.4      | 4749        | 7.19 | 189      | 3743      |
| 9:59  | 1               | 6                     | 16.7      | 4794        | 7.14 | 185      | 3788      |
| 10:03 | .75             | 6.75                  | 16.5      | 4776        | 7.13 | 167      | 3775      |
|       |                 |                       |           |             |      |          |           |

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

Time/Date Sampled 10:03 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses \_\_\_\_\_

Comments/Observations TOOK LONGER TO BAIL DUE TO THE VARYING SIZE OF SMALLER SIZED 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 gal/ft

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-09 Date Gauged 12-10-13  
 Site RIVER VALLEY Time Gauged 13:15

Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 16.12 feet Height of Fluid Column 7.61 feet  
 Total Depth 18.73 feet Volume in Well 4437 gallons  
 (10 Well Volumes = 1.33 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:18 12-10-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 13:20 | 1               | 1                     | 18.6      | 4462        | 7.84 | 188      | 3491      |
| 13:21 | .5              | 1.5                   | 18.7      | 4495        | 7.30 | 189      | 3515      |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |

Actual Purge Volume 1.5 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 13:21 12-10-13 Purged/Sampled By W  
 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





# TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Ave, Site 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) 585-5443  
Fax (915) 585-4944

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

Company Name: **D + H Petroleum AND ENVIRONMENTAL**

Address: **1221 TOWER TRAIL LN, EL PASO, TX 79907**

Contact Person: **VICTOR AYALA**

Invoice to: **RIVER VALLEY DAIRY, PO BOX 1929, ANTHONY, NM 88621**

Project #: **479544**

Project Location: **RIVER VALLEY DAIRY, 1460 LA CHUGA RD, NISBETE (include state)**

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

Fax #:

E-mail: **VA.YALAO@DH.PUMP.COM**

Project Name: **RIVER VALLEY DAIRY**

Sampler Signature: *JLV*

## ANALYSIS REQUEST (Circle or Specify Method No.)

|  |   |
|--|---|
| MTBE 8021B / 602 / 8260B / 624                     |   |
| BTEX 8021B / 602 / 8260B / 624                     |   |
| TPH 418.1 / TX1005 / DRO / TVHC                    |   |
| PAH 8270C / 625                                    |   |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7 |   |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg                |   |
| TCLP Volatiles                                     |   |
| TCLP Semi Volatiles                                |   |
| TCLP Pesticides                                    |   |
| RCI  |   |
| GC/MS Vol. 8260B / 624                             |   |
| GC/MS Semi. Vol. 8270C/625                         |   |
| PCB's 8082 / 608                                   |   |
| Pesticides 8081A / 608                             |   |
| BOD, TSS, pH                                       |   |
| Moisture Content                                   |   |
| Total Kjeldahl nitrogen SM 4500 NORG C             | X |
| Nitrate EPA 300.0                                  | X |
| Chloride EPA 300.0                                 | X |
| Total Dissolved Solids SM 2540 C MOD               | X |
| Turn Around Time if different from standard        |   |

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |     |        | PRESERVATIVE METHOD |                  |                                |      | DATE | SAMPLING TIME  |
|-------------------------|------------|--------------|---------------|--------|-----|--------|---------------------|------------------|--------------------------------|------|------|----------------|
|                         |            |              |               | WATER  | AIR | SLUDGE | HCL                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH |      |                |
|                         | 167-08     | 1            | 250           |        |     |        | X                   |                  |                                |      | X    | 12-11-13 10:00 |
|                         | 167-08     | 1            | 250           |        |     |        |                     |                  |                                |      | X    | 12-11-13 10:00 |

REMARKS:

LAB USE ONLY

Received by: *JLV* Company: **D+H** Date: **12-11-13** Time: **14:18**

Received by: *JLV* Company: **D+H** Date: **12-11-13** Time: **14:18**

Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Received by: \_\_\_\_\_ Company: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Carrier # **CA17**

Dry Weight Basis Required

TRRP Report Required

Check If Special Reporting Limits Are Needed



155 McCutcheon, Ste. H El Paso, TX 79932  
 Paso, TX 79932  
 Tel (915) 585-3443  
 Fax (915) 585-4944  
 Phone #: 915-859-8150  
 Cell #: \_\_\_\_\_  
 Fax #: \_\_\_\_\_  
 E-mail: [vajala@dhpump.com](mailto:vajala@dhpump.com)

# 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  
**Invoice to (if different from above):** River Valley Dairy, PO Box 1929, Anthony, NM 88021  
**Project #:** 429544  
**Project Name:** River Valley Dairy, LLC  
**Sampler Signature:** *[Signature]*

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

| LAB #      | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | SAMPLING |      |          |       |  |
|------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|------|----------|-------|--|
|            |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE | DATE     | TIME  |  |
| 167-08     |            | 1            |               | X      |      |     |        | X                   |                  |                                |      |          |      |          |       |  |
| 167-08     |            | 1            |               | X      |      |     |        | X                   |                  |                                |      |          |      | 12-10-13 | 13:21 |  |
| 167-09     |            | 1            |               | X      |      |     |        | X                   |                  |                                |      |          |      | 13:21    |       |  |
| 167-09     |            | 1            |               | X      |      |     |        | X                   |                  |                                |      |          |      | 10:46    |       |  |
| 167 Lagoon |            | 1            |               | X      |      |     |        | X                   |                  |                                |      |          |      | 10:46    |       |  |
| 167 Lagoon |            | 1            |               | X      |      |     |        | X                   |                  |                                |      |          |      |          |       |  |

**ANALYSIS REQUEST**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| MTBE 8021B/602                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| BTEX 8021B/602                                   |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TPH 418.1 / TX1005                               |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TX 1005 Extended (C35)                           |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PAH 8270C  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| PAH 8270 (Low Level Analysis)                    |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Nitrates EPA 300                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| TKN SM 4500 NOR G C                              |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Chloride EPA 300                                 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Total Dissolved Solids SM 2540 C MOD             |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

Turn Around Time \_\_\_\_\_

Hold \_\_\_\_\_

Remarks: *on file*  
*addition to tick in workbook*  
*FL*

Lab Use Only  
 Intact  N  
 Headspace  Y /  N  
 Temp \_\_\_\_\_  
 Log-in Review \_\_\_\_\_

Relinquished By: *[Signature]* Date: 12-10-13 Time: 14:25  
 Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

Dry Weight Basis Required   
 TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-01 Date Gauged 11-25-13  
 Site \_\_\_\_\_ Time Gauged ~~11:00~~ 11:00  
 Depth to PSH ~~22.0~~ 22.32 feet Well Diameter 2" inches  
 Depth to Water 22.32 feet Height of Fluid Column 3.59 feet  
 Total Depth 25.91 feet Volume in Well .6103 gallons  
 (3 Well Volumes = 1.83 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11/12 ~~11-25-13~~ Purged Method BAL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS -DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|----------------|
| 11:14 | 1               | 1                     | 19.4      | 4867        | 7.50 | 51       | 3781           |
| 11:15 | 1               | 2                     |           | 4783        | 7.31 | 57       | 3757           |
|       |                 |                       |           |             |      |          |                |
|       |                 |                       |           |             |      |          |                |
|       |                 |                       |           |             |      |          |                |
|       |                 |                       |           |             |      |          |                |
|       |                 |                       |           |             |      |          |                |
|       |                 |                       |           |             |      |          |                |

Actual Purge Volume 2 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 11:15-13 11:15 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 gal/ft



MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-02 Date Gauged 11-25-13  
 Site SUNSET / DESERT LAND Time Gauged 10:30 PM  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 16.5 feet Height of Fluid Column 9.51 feet  
 Total Depth 20.66 feet Volume in Well 7667 gallons  
 (3 Well Volumes = 2.3 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:36 11-25-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|-----------|
| 10:38 | 1               | 1                     | 18.6      | 3314        | 7.37 | 178      | 2525      |
| 10:39 | 1               | 2                     | 19.1      | 3295        | 7.14 | 178      | 2528      |
| 10:40 | .5              | 2.5                   | 19.2      | 3329        | 7.09 | 173      | 2523      |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |
|       |                 |                       |           |             |      |          |           |

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

Time/Date Sampled 10:40 11-25-13 Purged/Sampled By JU

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 11-25-13  
 Site SUNSET Time Gauged 12:25  
 Depth to PSH \_\_\_\_\_ feet Well Diameter 2" inches  
 Depth to Water 11.09 feet Height of Fluid Column 3.23 feet  
 Total Depth 14.32 feet Volume in Well .5491 gallons  
 (3 Well Volumes = 1.64 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:30 11-25-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS DO (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|---------------|
| 12:32 | 1               | 1                     | 20.2      | 3212        | 7.48 | 101      | 2439          |
| 12:33 | .75             | 1.75                  | 20.2      | 3312        | 7.16 | 107      | 2513          |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |
|       |                 |                       |           |             |      |          |               |

Actual Purge Volume 1.75 gals Field Measurements stabilized within ± 10% \_\_\_\_\_  
 Time/Date Sampled 12:33 11-25-13 Purged/Sampled By BAIL 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 257/260-01 Date Gauged 11-25-13  
 Site SUN SET Time Gauged 11:45

Depth to PSH \_\_\_\_\_ feet Well Diameter 4" inches  
 Depth to Water 14.1 feet Height of Fluid Column 6.04 feet  
 Total Depth 20.14 feet Volume in Well 4.01 gallons  
 (3 Well Volumes = 12 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:55 11-25-13 Purged Method BAIL

| Time  | Purge Vol (gal) | Cumul Purge Vol (gal) | Temp (°C) | SpC (µs/cm) | pH   | ORP (mV) | TDS (mg/L) |
|-------|-----------------|-----------------------|-----------|-------------|------|----------|------------|
| 12:00 | 5               | 5                     | 19.2      | 2160        | 8.05 | -205     | 1545       |
| 12:01 | 1               | 6                     | 19.1      | 2659        | 7.48 | -193     | 1999       |
| 12:02 | 1               | 7                     | 19.1      | 3809        | 7.19 | -156     | 2928       |
| 12:04 | 1               | 8                     | 18.9      | 3617        | 7.15 | -153     | 2766       |
| 12:05 | 1               | 9                     | 18.7      | 3520        | 6.99 | -143     | 2926       |
| 12:06 | 1               | 10                    | 18.7      | 3441        | 7.01 | -154     | 2630       |
| 12:07 | 1               | 11                    | 18.6      | 3326        | 6.94 | -158     | 2524       |
| 12:08 | 1               | 12                    | 18.6      | 3321        | 6.93 | -157     | 2518       |

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

Time/Date Sampled 12:08 11-25-13 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses \_\_\_\_\_

Comments/Observations HAD DIFFICULTY LOCATING WELL.

Well Casing Volumes

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.

155 McCutcheon, Ste. H  
Paso, TX 79832  
Tel (915) 565-3443  
Fax (915) 565-4944

Page 1 of 1  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST  
LAB Order ID # \_\_\_\_\_

Company Name: \_\_\_\_\_ Phone #: 915-859-8150  
D&H Petroleum & Environmental Services Cell #: \_\_\_\_\_  
Address: (Street, City, Zip) Fax #: \_\_\_\_\_  
1221 Tower Trail Ln, El Paso TX 79907 E-mail: [vajala@dhpump.com](mailto:vajala@dhpump.com)

Contact Person: Victor Ayala  
Invoice to (if different from above): Ed DeRuyter 575-233-2029  
Sunset Dairy, PO Box 10, Mesquite, NM 88048  
Project #: 429548  
Project Name: Sunset Dairy  
Sampler Signature: *JLV*

Project Location (including state): Sunset Dairy, 1790

| LAB # | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      |     | Sampling |       | Turn Around Time | Hold |
|-------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|-----|----------|-------|------------------|------|
|       |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE     | DATE  |                  |      |
|       | 257-01     | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   | 11-25-13 | 11:15 |                  |      |
|       | 257-01     | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   | 11:15    | 11:15 |                  |      |
|       | 257-02     | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   | 10:40    | 10:40 |                  |      |
|       | 257-02     | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   | 10:46    | 10:46 |                  |      |
|       | 257-03     | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   | 12:33    | 12:33 |                  |      |
|       | 257-03     | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   | 12:33    | 12:33 |                  |      |
|       | 257/260-01 | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   | 12:08    | 12:08 |                  |      |
|       | 257/260-01 | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   | 12:08    | 12:08 |                  |      |
|       | 257 Lagoon | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   | 10:46    | 10:46 |                  |      |
|       | 257 Lagoon | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | X   | 10:46    | 10:46 |                  |      |

ANALYSIS REQUEST

TX 1005 Extended (C35) \_\_\_\_\_

PAH 8270C \_\_\_\_\_

PAH 8270 (Low Level Analysis) \_\_\_\_\_

Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7 \_\_\_\_\_

Nitrates EPA 300 \_\_\_\_\_

TKN SM 4500 NORG C \_\_\_\_\_

Chloride EPA 300 \_\_\_\_\_

Total Dissolved Solids SM 2540 C MOD \_\_\_\_\_

Remarks: ICE  
TKN @ Lubbock  
NO<sub>3</sub>, (521) TP& @ E.P.  
Dry Weight Basis Required  
TRRP Report Required

Lab Use Only  
Intac (Y) / N  
Headspace Y / N  
Temp 12-2 / 2  
Log-in Review \_\_\_\_\_

Relinquished By: *JLV* Date: 11-25-13 Time: 11:25  
Received By: *Danny's Hays* Date: 11-25-13 Time: 14:25  
Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_



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



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

John DeRuyter  
 Mountain View Dairy  
 13090 Stern Drive  
 P.O. Box 345  
 Mesquite, NM, 88048

Report Date: November 27, 2013

Work Order: 13111426



DP: 70  
 Project Location: 13090 Stern Dr., Mesquite, NM  
 Project Name: Mountain View Dairy

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

| Sample | Description          | Matrix | Date Taken | Time Taken | Date Received |
|--------|----------------------|--------|------------|------------|---------------|
| 346615 | 70-01                | water  | 2013-11-14 | 09:15      | 2013-11-14    |
| 346616 | 70-02                | water  | 2013-11-14 | 09:52      | 2013-11-14    |
| 346617 | 70-03                | water  | 2013-11-14 | 08:00      | 2013-11-14    |
| 346618 | 70-04                | water  | 2013-11-14 | 11:31      | 2013-11-14    |
| 346619 | 70-Lagoon            | water  | 2013-11-14 | 09:59      | 2013-11-14    |
| 346620 | N.Storm water Lagoon | water  | 2013-11-14 | 10:19      | 2013-11-14    |

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 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.*



*Michael Abel*

---

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

# Report Contents

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| QC Batch 106898 - MS (1) . . . . .              | 20        |
| QC Batch 106898 - MS (1) . . . . .              | 20        |
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|                                     |           |
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## Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2013-11-14 and assigned to work order 13111426. Samples for work order 13111426 were received intact at a temperature of 2 C.

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

| Test          | Method       | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|---------------|--------------|---------------|---------------------|-------------|---------------------|
| Chloride (IC) | E 300.0      | 90519         | 2013-11-18 at 13:35 | 106898      | 2013-11-18 at 13:35 |
| NO3 (IC)      | E 300.0      | 90519         | 2013-11-18 at 13:35 | 106898      | 2013-11-18 at 13:35 |
| SO4 (IC)      | E 300.0      | 90519         | 2013-11-18 at 13:35 | 106898      | 2013-11-18 at 13:35 |
| Sulfide       | SM 4500-S2 D | 90481         | 2013-11-18 at 10:00 | 106850      | 2013-11-18 at 13:00 |
| TDS           | SM 2540C     | 90511         | 2013-11-18 at 11:30 | 106894      | 2013-11-18 at 11:30 |
| TKN           | E 351.3      | 90689         | 2013-11-26 at 12:15 | 107102      | 2013-11-26 at 18:00 |

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 13111426 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: 346615 - 70-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>510</b>             | <b>510</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346615 - 70-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C   | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|-----|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | 1 | H 1 | <b>22.3</b>            | <b>22.3</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346615 - 70-01**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F  | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|----|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Sulfate   | Qs | 1 | <b>403</b>             | <b>403</b>             | <1.10                     | mg/L  | 50       | 1.10 | 2.5                 | 0.0219              |

**Sample: 346615 - 70-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106894 Date Analyzed: 2013-11-18 Analyzed By: MC  
 Prep Batch: 90511 Sample Preparation: 2013-11-18 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2620</b>            | <b>2620</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346615 - 70-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107102 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90689 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <b>23.8</b>            | <b>23.8</b>            | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346616 - 70-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>837</b>             | <b>837</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346616 - 70-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C   | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|-----|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | 2 | H 1 | <b>36.1</b>            | <b>36.1</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346616 - 70-02**



Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F  | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|----|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |    |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Sulfate   | Qs | 1 | <b>478</b>      | <b>478</b>      | <0.219          | mg/L  | 10       | 0.219 | 2.5          | 0.0219       |

**Sample: 346616 - 70-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106894 Date Analyzed: 2013-11-18 Analyzed By: MC  
 Prep Batch: 90511 Sample Preparation: 2013-11-18 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3200</b>     | <b>3200</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346616 - 70-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107102 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90689 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>4.90</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346617 - 70-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

*continued ...*

*sample 346617 continued ...*

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>2680</b>            | <b>2680</b>            | <67.8                     | mg/L  | 100      | 67.8 | 2.5                 | 0.678               |

**Sample: 346617 - 70-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C   | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|-----|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | 3 | H 1 | <b>45.4</b>            | <b>45.4</b>            | <0.426                    | mg/L  | 10       | 0.426 | 0.5                 | 0.0426              |

**Sample: 346617 - 70-03**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C    | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|------|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Sulfate   |   | Qs 1 | <b>1320</b>            | <b>1320</b>            | <1.10                     | mg/L  | 50       | 1.10 | 2.5                 | 0.0219              |

**Sample: 346617 - 70-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106894 Date Analyzed: 2013-11-18 Analyzed By: MC  
 Prep Batch: 90511 Sample Preparation: 2013-11-18 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>6800</b>            | <b>6800</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |



**Sample: 346617 - 70-03**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107102 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90689 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346618 - 70-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>649</b>      | <b>649</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346618 - 70-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C   | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|-----|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |     | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | 4 | H 1 | <b>21.0</b>     | <b>21.0</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346618 - 70-04**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F  | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|----|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Sulfate   | Qs | 1 | <b>558</b>             | <b>558</b>             | <1.10                     | mg/L  | 50       | 1.10 | 2.5                 | 0.0219              |

**Sample: 346618 - 70-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106894 Date Analyzed: 2013-11-18 Analyzed By: MC  
 Prep Batch: 90511 Sample Preparation: 2013-11-18 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2630</b>            | <b>2630</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346618 - 70-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107102 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90689 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346619 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>2140</b>            | <b>2140</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346619 - 70-Lagoon**



Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F            | C   | SDL             | MQL             | Method          | Units  | Dilution | SDL | MQL          | MDL          |        |
|-----------|--------------|-----|-----------------|-----------------|-----------------|--------|----------|-----|--------------|--------------|--------|
|           |              |     | Based<br>Result | Based<br>Result | Blank<br>Result |        |          |     | (Unadjusted) | (Unadjusted) |        |
| Nitrate-N | <sup>5</sup> | H,U | 1               | <0.426          | <5.00           | <0.426 | mg/L     | 10  | 0.426        | 0.5          | 0.0426 |

**Sample: 346619 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F  | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|----|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |    |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Sulfate   | Qs | 1 | <b>547</b>      | <b>547</b>      | <1.10           | mg/L  | 50       | 1.10 | 2.5          | 0.0219       |

**Sample: 346619 - 70-Lagoon**

Laboratory: Lubbock  
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A  
 QC Batch: 106850 Date Analyzed: 2013-11-18 Analyzed By: SAS  
 Prep Batch: 90481 Sample Preparation: 2013-11-18 Prepared By: SAS

Comment: Please Report as Sulfur & add SO4 Result

| Parameter | F   | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|-----|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |     |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Sulfide   | H,J |   | <b>1.91</b>     | <2.50           | <0.462          | mg/L  | 25       | 0.462 | 0.1          | 0.0185       |

**Sample: 346619 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106894 Date Analyzed: 2013-11-18 Analyzed By: MC  
 Prep Batch: 90511 Sample Preparation: 2013-11-18 Prepared By: MC

*continued ...*

*sample 346619 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>9370</b>            | <b>9370</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346619 - 70-Lagoon**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107102

Prep Batch: 90689

Analytical Method: E 351.3

Date Analyzed: 2013-11-26

Sample Preparation: 2013-11-26

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <b>101</b>             | <b>101</b>             | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346620 - N.Storm water Lagoon**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 106898

Prep Batch: 90519

Analytical Method: E 300.0

Date Analyzed: 2013-11-18

Sample Preparation: 2013-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1500</b>            | <b>1500</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346620 - N.Storm water Lagoon**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 106898

Prep Batch: 90519

Analytical Method: E 300.0

Date Analyzed: 2013-11-18

Sample Preparation: 2013-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR



| Parameter | F                   | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---------------------|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | <sup>6</sup><br>H,U | 1 | <0.426                 | <5.00                  | <0.426                    | mg/L  | 10       | 0.426 | 0.5                 | 0.0426              |

**Sample: 346620 - N.Storm water Lagoon**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F    | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|------|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Sulfate   | J,Qs | 1 | <b>22.6</b>            | <25.0                  | <0.219                    | mg/L  | 10       | 0.219 | 2.5                 | 0.0219              |

**Sample: 346620 - N.Storm water Lagoon**

Laboratory: Lubbock  
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A  
 QC Batch: 106850 Date Analyzed: 2013-11-18 Analyzed By: SAS  
 Prep Batch: 90481 Sample Preparation: 2013-11-18 Prepared By: SAS

Comment: Please Report as Sulfur & add SO4 Result

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Sulfide   | H |   | <b>13.2</b>            | <b>13.2</b>            | <0.462                    | mg/L  | 25       | 0.462 | 0.1                 | 0.0185              |

**Sample: 346620 - N.Storm water Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106894 Date Analyzed: 2013-11-18 Analyzed By: MC  
 Prep Batch: 90511 Sample Preparation: 2013-11-18 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>8440</b>            | <b>8440</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346620 - N.Storm water Lagoon**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107102

Prep Batch: 90689

Analytical Method: E 351.3

Date Analyzed: 2013-11-26

Sample Preparation: 2013-11-26

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL        | SQL        | Method | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|------------|------------|--------|-------|----------|------|--------------|--------------|
|                             |   |   | Based      | Based      | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N |   | 2 | <b>398</b> | <b>398</b> | <1.66  | mg/L  | 1        | 1.66 | 10           | 1.66         |



## Method Blanks

### Method Blank (1)

QC Batch: 106850  
Prep Batch: 90481Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: SAS  
Prepared By: SAS

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Sulfide   |   |   | <0.0185 | mg/L  | 0.0185           |

### Method Blank (1)

QC Batch: 106894  
Prep Batch: 90511Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 106898  
Prep Batch: 90519Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 106898  
Prep Batch: 90519Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

**Method Blank (1)**

QC Batch: 106898                      Date Analyzed: 2013-11-18                      Analyzed By: JR  
 Prep Batch: 90519                      QC Preparation: 2013-11-18                      Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Sulfate   |   | 1 | <0.0219 | mg/L  | 0.0219           |

**Method Blank (1)**

QC Batch: 107102                      Date Analyzed: 2013-11-26                      Analyzed By: SAS  
 Prep Batch: 90689                      QC Preparation: 2013-11-26                      Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Duplicate (1)**    Duplicated Sample: 346615

QC Batch: 106894                      Date Analyzed: 2013-11-18                      Analyzed By: MC  
 Prep Batch: 90511                      QC Preparation: 2013-11-18                      Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 2590             | 2620          | mg/L  | 1        | 1   | 10        |









| Param                       | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.1          | mg/L  | 1    | 50.0            | <1.66            | 102  | 75.5 - 115    |

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

| Param                       | F | C | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|-----------------------------|---|---|----------------|-------|------|-----------------|------------------|---------------|------------|--------------|----|
| Total Kjeldahl Nitrogen - N |   | 2 | 49.7           | mg/L  | 1    | 50.0            | <1.66            | 99            | 75.5 - 115 | 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: 345464

QC Batch: 106850  
Prep Batch: 90481

Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18

Analyzed By: SAS  
Prepared By: SAS

| Param   | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfide |   | H | 0.385        | mg/L  | 1    | 0.400           | <0.0185          | 96   | 10 - 154      |

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

| Param   | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|---------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Sulfide |   | H | 0.392         | mg/L  | 1    | 0.400           | <0.0185          | 98            | 10 - 154 | 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: 346615

QC Batch: 106898  
Prep Batch: 90519

Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 2140         | mg/L  | 55.6 | 1390            | 510              | 117  | 80 - 120      |

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

| Param    | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Chloride |   | 1 | 2150          | mg/L  | 55.6 | 1390            | 510              | 118           | 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: 346615QC Batch: 106898  
Prep Batch: 90519Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 303          | mg/L  | 55.6 | 278             | 22.3             | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 305           | mg/L  | 55.6 | 278             | 22.3             | 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: 346615QC Batch: 106898  
Prep Batch: 90519Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Param   | F  | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------|----|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | Qs | 1 | 1940         | mg/L  | 55.6 | 1390            | 403              | 110  | 90 - 110      |

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

| Param   | F  | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------|----|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | Qs | 1 | 1950          | mg/L  | 55.6 | 1390            | 403              | 111  | 90 - 110      | 0   | 20           |

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

**Matrix Spike (MS-1)** Spiked Sample: 346522QC Batch: 107102  
Prep Batch: 90689Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.9         | mg/L  | 1    | 50.0            | 4.2              | 99   | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.2          | mg/L  | 1    | 50.0            | 4.2              | 98   | 41.1 - 118    | 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: 106850

Date Analyzed: 2013-11-18

Analyzed By: SAS

| Param   | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfide |   |   | mg/L  | 0.400                 | 0.391                  | 98                          | 85 - 115                      | 2013-11-18       |

### Standard (CCV-1)

QC Batch: 106850

Date Analyzed: 2013-11-18

Analyzed By: SAS

| Param   | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfide |   |   | mg/L  | 0.400                 | 0.387                  | 97                          | 85 - 115                      | 2013-11-18       |

### Standard (CCV-1)

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.6                   | 98                          | 90 - 110                      | 2013-11-18       |

### Standard (CCV-1)

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.94                   | 99                          | 90 - 110                      | 2013-11-18       |



**Standard (CCV-1)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param   | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-2)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.9                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-2)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-2)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param   | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate |   | 1 | mg/L  | 25.0                  | 25.2                   | 101                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-3)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-18       |

**Standard (CCV-3)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-3)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param   | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate |   | 1 | mg/L  | 25.0                  | 25.1                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (ICV-1)**

QC Batch: 107102

Date Analyzed: 2013-11-26

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-11-26       |

**Standard (CCV-1)**

QC Batch: 107102

Date Analyzed: 2013-11-26

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-11-26       |



---

## 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                   | 0.126        | Pass |
| SO4 (IC)      | E 300.0      | water  | Dionex IC         | Sulfate                     | 0.0500       | Pass |
| Sulfide       | SM 4500-S2 D | water  | Spectrophotometer | Sulfide                     | 0.0500       | Pass |
| TDS           | SM 2540C     | water  | N/A               | Total Dissolved Solids      | 0.00         | -    |
| TKN           | E 351.3      | water  | N/A               | Total Kjeldahl Nitrogen - N | 5.00         | Pass |

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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   |

## Result Comments

- 1 Sample analyzed for Nitrate was out of hold due to equipment failu.
- 2 Sample analyzed for Nitrate was out of hold due to equipment failu.



- 3 Sample analyzed for Nitrate was out of hold due to equipment failu.
- 4 Sample analyzed for Nitrate was out of hold due to equipment failu.
- 5 Sample analyzed for Nitrate was out of hold due to equipment failure.
- 6 Sample analyzed for Nitrate was out of hold due to equipment failu.

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

155 McMillenway, Ste. H, E  
Paso, TX 79932  
Tel (815) 585-3443  
Fax (815) 585-4844

# 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

**Project Name:** Mountain View Dairy  
**Project Location (including state):** Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048  
**Sampler Signature:** *John DeRuyter*

| LAB #<br>(LAB USE ONLY) | Field Code              | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | Sampling |          |       |
|-------------------------|-------------------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|----------|-------|
|                         |                         |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE     | DATE  |
| 346415                  | 70-01                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:15  |
| 346415-2                | 70-01                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:15  |
| 346416                  | 70-02                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:52  |
| 1-2                     | 70-02                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:52  |
| 346417                  | 70-03                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:00  |
| 1-2                     | 70-03                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 11:31 |
| 346418-1                | 70-04                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 11:31 |
| 1-2                     | 70-04                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:59  |
| 346419-1                | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:59  |
| 1-2                     | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 346420-1                | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 1-2                     | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 346421                  | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 1-2                     | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 346422                  | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 1-2                     | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 346423                  | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 1-2                     | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |

ANALYSIS REQUEST

|  |   |
|--|---|
| MTBE 8021B/802                                   |   |
| BTX 8021B/802                                    |   |
| TPH 418.1 / TX1005                               |   |
| TX 1005 Extended (C35)                           |   |
| PAH 8270C  |   |
| PAH 8270 (Low Level Analysis)                    |   |
| Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7 | X |
| Nitrates EPA 300                                 | X |
| Total Kjeldahl Nitrogen SM 4500 NORG C           | X |
| Chloride EPA 300.0                               | X |
| Total Dissolved Solids SM 2540 C MOD             | X |
| Sulfate EPA Method 300.0                         | X |
| Total Sulfur                                     |   |
| Turn Around Time                                 |   |
| Hold   |   |

Remarks: South Storm Water Lagoon  
 15 Day NTA Sample

Lab Use Only  
 Initialed  Y  N  
 Headspace  Y  N  
 Temp'd  2  3  18  10  
 Log-in Review  *[Signature]*

Received By: *[Signature]* Date: 11/14/13 Time: 13:20  
 Received at Laboratory By: *[Signature]* Date: 11/14/13 Time: 16:30

Relinquished By: *[Signature]* Date: 11/14/13 Time: 16:30  
 Relinquished By: *[Signature]* Date: 11/14/13 Time: 16:30

Dry Weight Basis Required  
 TRRP Report Required *[Signature]*

1311426

# 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

Project #: 1311426  
Project Name: Mountain View Dairy  
Project Location (including state): Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048  
Sampler Signature: John DeRuyter

LAB Order ID # 1311426

| LAB #<br>(LAB USE ONLY) | Field Code              | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | SAMPLING |      |          |       |
|-------------------------|-------------------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|------|----------|-------|
|                         |                         |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE | DATE     | TIME  |
| 346615-1                | 70-01                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 9:25  |
| 346615-2                | 70-01                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 9:15  |
| 346616-1                | 70-02                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 9:52  |
| 346617-1                | 70-02                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 9:52  |
| 346617-1                | 70-03                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 8:00  |
| 346618-1                | 70-03                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 8:00  |
| 346619-1                | 70-04                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 11:31 |
| 346620-1                | 70-04                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 11:31 |
| 346621-1                | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 9:59  |
| 346622-1                | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 9:59  |
| 346623-1                | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 9:59  |
| 346624-1                | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 10:19 |
| 346625-1                | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 10:19 |
| 346626-1                | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 10:19 |
| 346627-1                | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 10:19 |
| 346628-1                | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 10:19 |
| 346629-1                | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      | 11/14/13 | 10:19 |

| Relinquished By:     | Date:           | Time:        | Received By:         | Date:           | Time:        |
|----------------------|-----------------|--------------|----------------------|-----------------|--------------|
| <u>Victor Ayala</u>  | <u>11/14/13</u> | <u>13:20</u> | <u>John DeRuyter</u> | <u>11/14/13</u> | <u>13:20</u> |
| <u>John DeRuyter</u> | <u>11/14/13</u> | <u>16:30</u> | <u>Brenda Ward</u>   | <u>11/15/13</u> | <u>9:15</u>  |

| ANALYSIS REQUEST                                 | Lab Use Only                                      | Remarks:  |
|--|---|---|
| MTBE 8021B/602                                   | Intact <input checked="" type="checkbox"/> / N    | South Storm Water Lagoon<br>15 Day NO sample<br>25 18590237<br>238<br>Dry Weight Basis Required<br>TRRP Report Required Certified<br>11-15-13 |
| BTEX 8021B/602                                   | Headspace <input type="checkbox"/> / N            |   |
| TPH 418.1 / TX1005                               | Temperature <u>21.0</u>                           |   |
| TX 1005 Extended (C35)                           | Log-in Review <input checked="" type="checkbox"/> |   |
| 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             |   |   |
| Sulfate EPA Method 300.0                         |   |   |
| Total Sulfur                                     |   |   |
| Turn Around Time                                 |   |   |





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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 27, 2013

Work Order: 13111120



DP: 340  
 Project Location: 13250 Stern Dr, Mesquite, NM  
 Project Name: Bright Star Dairy

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

| Sample | Description  | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------|--------|------------|------------|---------------|
| 346288 | 86/340-01    | water  | 2013-11-11 | 12:04      | 2013-11-11    |
| 346289 | 70-86/340-01 | water  | 2013-11-11 | 13:22      | 2013-11-11    |
| 346290 | 340-01       | water  | 2013-11-11 | 13:57      | 2013-11-11    |
| 346291 | 340-02       | water  | 2013-11-11 | 14:38      | 2013-11-11    |
| 346292 | Lagoon       | water  | 2013-11-11 | 14:08      | 2013-11-11    |

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 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

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

*Michael Abel*

---

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

# Report Contents

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## Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2013-11-11 and assigned to work order 13111120. Samples for work order 13111120 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  | 90399      | 2013-11-12 at 19:36 | 106745   | 2013-11-12 at 19:36 |
| NO3 (IC)      | E 300.0  | 90399      | 2013-11-12 at 19:36 | 106745   | 2013-11-12 at 19:36 |
| TDS           | SM 2540C | 90389      | 2013-11-14 at 12:00 | 106729   | 2013-11-14 at 12:00 |
| TKN           | E 351.3  | 90688      | 2013-11-26 at 12:15 | 107101   | 2013-11-26 at 17:30 |

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 13111120 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: 346288 - 86/340-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>641</b>             | <b>641</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346288 - 86/340-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>12.2</b>            | <b>12.2</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346288 - 86/340-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106729 Date Analyzed: 2013-11-14 Analyzed By: MC  
 Prep Batch: 90389 Sample Preparation: 2013-11-14 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2940</b>            | <b>2940</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346288 - 86/340-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107101 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90688 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>7.00</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346289 - 70-86/340-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1760</b>     | <b>1760</b>     | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346289 - 70-86/340-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>6.65</b>     | <b>6.65</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346289 - 70-86/340-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106729 Date Analyzed: 2013-11-14 Analyzed By: MC  
 Prep Batch: 90389 Sample Preparation: 2013-11-14 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>4780</b>     | <b>4780</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346289 - 70-86/340-01**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107101 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90688 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>4.90</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346290 - 340-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>600</b>      | <b>600</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346290 - 340-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>29.2</b>     | <b>29.2</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346290 - 340-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106729 Date Analyzed: 2013-11-14 Analyzed By: MC  
 Prep Batch: 90389 Sample Preparation: 2013-11-14 Prepared By: MC

*continued . . .*

*sample 346290 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2800</b>            | <b>2800</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346290 - 340-01**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107101

Prep Batch: 90688

Analytical Method: E 351.3

Date Analyzed: 2013-11-26

Sample Preparation: 2013-11-26

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346291 - 340-02**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 106745

Prep Batch: 90399

Analytical Method: E 300.0

Date Analyzed: 2013-11-12

Sample Preparation: 2013-11-12

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>807</b>             | <b>807</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346291 - 340-02**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 106745

Prep Batch: 90399

Analytical Method: E 300.0

Date Analyzed: 2013-11-12

Sample Preparation: 2013-11-12

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>87.0</b>            | <b>87.0</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346291 - 340-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106729 Date Analyzed: 2013-11-14 Analyzed By: MC  
 Prep Batch: 90389 Sample Preparation: 2013-11-14 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3160</b>            | <b>3160</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346291 - 340-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107101 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90688 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346292 - Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1130</b>            | <b>1130</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346292 - Lagoon**



Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL    | SQL   | Method | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------|-------|--------|-------|----------|-------|--------------|--------------|
|           |   |   | Based  | Based | Blank  |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | u | 1 | <0.426 | <5.00 | <0.426 | mg/L  | 10       | 0.426 | 0.5          | 0.0426       |

**Sample: 346292 - Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106729 Date Analyzed: 2013-11-14 Analyzed By: MC  
 Prep Batch: 90389 Sample Preparation: 2013-11-14 Prepared By: MC

| Parameter              | F | C | SDL         | SQL         | Method | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-------------|-------------|--------|-------|----------|------|--------------|--------------|
|                        |   |   | Based       | Based       | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>4690</b> | <b>4690</b> | <2.50  | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346292 - Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107101 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90688 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL        | SQL        | Method | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|------------|------------|--------|-------|----------|------|--------------|--------------|
|                             |   |   | Based      | Based      | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N |   | 2 | <b>175</b> | <b>175</b> | <1.66  | mg/L  | 1        | 1.66 | 10           | 1.66         |

## Method Blanks

### Method Blank (1)

QC Batch: 106729  
Prep Batch: 90389Date Analyzed: 2013-11-14  
QC Preparation: 2013-11-14Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 106745  
Prep Batch: 90399Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 106745  
Prep Batch: 90399Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107101  
Prep Batch: 90688Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: SAS  
Prepared By: SAS

Report Date: November 27, 2013

Work Order: 13111120  
Bright Star Dairy

Page Number: 12 of 19  
13250 Stern Dr, Mesquite, NM

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| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

---

**Duplicate (2)** Duplicated Sample: 346521

QC Batch: 106729

Date Analyzed: 2013-11-14

Analyzed By: MC

Prep Batch: 90389

QC Preparation: 2013-11-14

Prepared By: MC

---

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 2360             | 2330          | mg/L  | 1        | 1   | 10        |

---



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 106729  
Prep Batch: 90389Date Analyzed: 2013-11-14  
QC Preparation: 2013-11-14Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 993           | mg/L  | 1    | 0.00            | <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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 979           | mg/L  | 1    | 0.00            | <2.50            | 98   | 90 - 110      | 1   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 106745  
Prep Batch: 90399Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.7          | mg/L  | 1    | 25.0            | <0.678           | 99   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 24.9          | mg/L  | 1    | 25.0            | <0.678           | 100  | 90 - 110      | 1   | 20           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 106745  
Prep Batch: 90399Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 4.96          | mg/L  | 1    | 5.00            | <0.0426          | 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<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|           |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Nitrate-N |   | 1 | 5.00   | mg/L  | 1    | 5.00            | <0.0426          | 100          | 90 - 110      | 1   | 20           |

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

### Laboratory Control Spike (LCS-1)

QC Batch: 107101  
Prep Batch: 90688

Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|
|                             |   |   | Result | Units |      |                 |                  |              |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 50.4   | mg/L  | 1    | 50.0            | <1.66            | 101          | 75.5 - 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<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 49.7   | mg/L  | 1    | 50.0            | <1.66            | 99           | 75.5 - 115    | 1   | 20           |

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

### Matrix Spike (MS-1) Spiked Sample: 346290

QC Batch: 106745  
Prep Batch: 90399

Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|
|          |   |   | Result | Units |      |                 |                  |              |               |
| Chloride |   | 1 | 2080   | mg/L  | 55.6 | 1390            | 600              | 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<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|          |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Chloride |   | 1 | 2080   | mg/L  | 55.6 | 1390            | 600              | 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: 346290

QC Batch: 106745  
Prep Batch: 90399

Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 307          | mg/L  | 55.6 | 278             | 29.2             | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 307           | mg/L  | 55.6 | 278             | 29.2             | 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: 346288

QC Batch: 107101  
Prep Batch: 90688

Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 55.3         | mg/L  | 1    | 50.0            | 7                | 97   | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 56.7          | mg/L  | 1    | 50.0            | 7                | 99   | 41.1 - 118    | 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: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.3                   | 93                          | 90 - 110                      | 2013-11-12       |

### Standard (CCV-1)

QC Batch: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.67                   | 93                          | 90 - 110                      | 2013-11-12       |

### Standard (CCV-2)

QC Batch: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.0                   | 96                          | 90 - 110                      | 2013-11-12       |

### Standard (CCV-2)

QC Batch: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.77                   | 95                          | 90 - 110                      | 2013-11-12       |

**Standard (CCV-3)**

QC Batch: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.2                   | 97                          | 90 - 110                      | 2013-11-12       |

**Standard (CCV-3)**

QC Batch: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.85                   | 97                          | 90 - 110                      | 2013-11-12       |

**Standard (ICV-1)**

QC Batch: 107101

Date Analyzed: 2013-11-26

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 5.04                   | 101                         | 85 - 115                      | 2013-11-26       |

**Standard (CCV-1)**

QC Batch: 107101

Date Analyzed: 2013-11-26

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-11-26       |

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## 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                   | 0.126        | Pass |
| TDS           | SM 2540C | water  | N/A        | Total Dissolved Solids      | 0.00         | -    |
| TKN           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00         | Pass |



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# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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

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

Report Date: November 27, 2013

Work Order: 13111120



DP: 340  
 Project Location: 13250 Stern Dr, Mesquite, NM  
 Project Name: Bright Star Dairy

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

| Sample | Description  | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------|--------|------------|------------|---------------|
| 346288 | 86/340-01    | water  | 2013-11-11 | 12:04      | 2013-11-11    |
| 346289 | 70-86/340-01 | water  | 2013-11-11 | 13:22      | 2013-11-11    |
| 346290 | 340-01       | water  | 2013-11-11 | 13:57      | 2013-11-11    |
| 346291 | 340-02       | water  | 2013-11-11 | 14:38      | 2013-11-11    |
| 346292 | Lagoon       | water  | 2013-11-11 | 14:08      | 2013-11-11    |

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 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

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

*Michael Abel*

---

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

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## Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2013-11-11 and assigned to work order 13111120. Samples for work order 13111120 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  | 90399      | 2013-11-12 at 19:36 | 106745   | 2013-11-12 at 19:36 |
| NO3 (IC)      | E 300.0  | 90399      | 2013-11-12 at 19:36 | 106745   | 2013-11-12 at 19:36 |
| TDS           | SM 2540C | 90389      | 2013-11-14 at 12:00 | 106729   | 2013-11-14 at 12:00 |
| TKN           | E 351.3  | 90688      | 2013-11-26 at 12:15 | 107101   | 2013-11-26 at 17:30 |

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 13111120 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: 346288 - 86/340-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>641</b>             | <b>641</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346288 - 86/340-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>12.2</b>            | <b>12.2</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346288 - 86/340-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106729 Date Analyzed: 2013-11-14 Analyzed By: MC  
 Prep Batch: 90389 Sample Preparation: 2013-11-14 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2940</b>            | <b>2940</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346288 - 86/340-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107101 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90688 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>7.00</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346289 - 70-86/340-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1760</b>     | <b>1760</b>     | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346289 - 70-86/340-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>6.65</b>     | <b>6.65</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346289 - 70-86/340-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106729 Date Analyzed: 2013-11-14 Analyzed By: MC  
 Prep Batch: 90389 Sample Preparation: 2013-11-14 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>4780</b>     | <b>4780</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346289 - 70-86/340-01**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107101 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90688 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>4.90</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346290 - 340-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>600</b>      | <b>600</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346290 - 340-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>29.2</b>     | <b>29.2</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346290 - 340-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106729 Date Analyzed: 2013-11-14 Analyzed By: MC  
 Prep Batch: 90389 Sample Preparation: 2013-11-14 Prepared By: MC

*continued . . .*

*sample 346290 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2800</b>            | <b>2800</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346290 - 340-01**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107101

Prep Batch: 90688

Analytical Method: E 351.3

Date Analyzed: 2013-11-26

Sample Preparation: 2013-11-26

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346291 - 340-02**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 106745

Prep Batch: 90399

Analytical Method: E 300.0

Date Analyzed: 2013-11-12

Sample Preparation: 2013-11-12

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>807</b>             | <b>807</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346291 - 340-02**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 106745

Prep Batch: 90399

Analytical Method: E 300.0

Date Analyzed: 2013-11-12

Sample Preparation: 2013-11-12

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>87.0</b>            | <b>87.0</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346291 - 340-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106729 Date Analyzed: 2013-11-14 Analyzed By: MC  
 Prep Batch: 90389 Sample Preparation: 2013-11-14 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3160</b>            | <b>3160</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346291 - 340-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107101 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90688 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346292 - Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1130</b>            | <b>1130</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346292 - Lagoon**



Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106745 Date Analyzed: 2013-11-12 Analyzed By: JR  
 Prep Batch: 90399 Sample Preparation: 2013-11-12 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | u | 1 | <0.426          | <5.00           | <0.426          | mg/L  | 10       | 0.426 | 0.5          | 0.0426       |

**Sample: 346292 - Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106729 Date Analyzed: 2013-11-14 Analyzed By: MC  
 Prep Batch: 90389 Sample Preparation: 2013-11-14 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>4690</b>     | <b>4690</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346292 - Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107101 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90688 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N |   | 2 | <b>175</b>      | <b>175</b>      | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

## Method Blanks

### Method Blank (1)

QC Batch: 106729  
Prep Batch: 90389Date Analyzed: 2013-11-14  
QC Preparation: 2013-11-14Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 106745  
Prep Batch: 90399Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 106745  
Prep Batch: 90399Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107101  
Prep Batch: 90688Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: SAS  
Prepared By: SAS

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| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

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**Duplicate (2)** Duplicated Sample: 346521

QC Batch: 106729

Date Analyzed: 2013-11-14

Analyzed By: MC

Prep Batch: 90389

QC Preparation: 2013-11-14

Prepared By: MC

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| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 2360             | 2330          | mg/L  | 1        | 1   | 10        |

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 106729  
Prep Batch: 90389Date Analyzed: 2013-11-14  
QC Preparation: 2013-11-14Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 993           | mg/L  | 1    | 0.00            | <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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 979           | mg/L  | 1    | 0.00            | <2.50            | 98   | 90 - 110      | 1   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 106745  
Prep Batch: 90399Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.7          | mg/L  | 1    | 25.0            | <0.678           | 99   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 24.9          | mg/L  | 1    | 25.0            | <0.678           | 100  | 90 - 110      | 1   | 20           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 106745  
Prep Batch: 90399Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 4.96          | mg/L  | 1    | 5.00            | <0.0426          | 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<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|           |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Nitrate-N |   | 1 | 5.00   | mg/L  | 1    | 5.00            | <0.0426          | 100          | 90 - 110      | 1   | 20           |

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

### Laboratory Control Spike (LCS-1)

QC Batch: 107101  
Prep Batch: 90688

Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 50.4   | mg/L  | 1    | 50.0            | <1.66            | 101  | 75.5 - 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 49.7   | mg/L  | 1    | 50.0            | <1.66            | 99   | 75.5 - 115    | 1   | 20           |

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

### Matrix Spike (MS-1) Spiked Sample: 346290

QC Batch: 106745  
Prep Batch: 90399

Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|          |   |   | Result | Units |      |                 |                  |      |               |
| Chloride |   | 1 | 2080   | mg/L  | 55.6 | 1390            | 600              | 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|          |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Chloride |   | 1 | 2080   | mg/L  | 55.6 | 1390            | 600              | 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: 346290

QC Batch: 106745  
Prep Batch: 90399

Date Analyzed: 2013-11-12  
QC Preparation: 2013-11-12

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 307          | mg/L  | 55.6 | 278             | 29.2             | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 307           | mg/L  | 55.6 | 278             | 29.2             | 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: 346288

QC Batch: 107101  
Prep Batch: 90688

Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 55.3         | mg/L  | 1    | 50.0            | 7                | 97   | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 56.7          | mg/L  | 1    | 50.0            | 7                | 99   | 41.1 - 118    | 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: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.3                   | 93                          | 90 - 110                      | 2013-11-12       |

### Standard (CCV-1)

QC Batch: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.67                   | 93                          | 90 - 110                      | 2013-11-12       |

### Standard (CCV-2)

QC Batch: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.0                   | 96                          | 90 - 110                      | 2013-11-12       |

### Standard (CCV-2)

QC Batch: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.77                   | 95                          | 90 - 110                      | 2013-11-12       |

**Standard (CCV-3)**

QC Batch: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.2                   | 97                          | 90 - 110                      | 2013-11-12       |

**Standard (CCV-3)**

QC Batch: 106745

Date Analyzed: 2013-11-12

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.85                   | 97                          | 90 - 110                      | 2013-11-12       |

**Standard (ICV-1)**

QC Batch: 107101

Date Analyzed: 2013-11-26

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 5.04                   | 101                         | 85 - 115                      | 2013-11-26       |

**Standard (CCV-1)**

QC Batch: 107101

Date Analyzed: 2013-11-26

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-11-26       |

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## 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                   | 0.126        | Pass |
| TDS           | SM 2540C | water  | N/A        | Total Dissolved Solids      | 0.00         | -    |
| TKN           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00         | Pass |



---

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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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Bioaquatic Testing  
2501 Meyers Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

email: lab@traceanalysis.com

## ANALYSIS REQUEST (Circle or Specify Method No.)

|  |   |
|--|---|
| MTBE 8021 / 602 / 8260 / 824                   |   |
| BTEX 8021 / 602 / 8260 / 624                   |   |
| TPH 418.1 / TX1005 / TX1005 EX(C35)            |   |
| TPH 8015 GRO / DRO / TVHC                      |   |
| PAH 8270 / 625                                 |   |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/2007 |   |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg            |   |
| TCLP Volatiles                                 |   |
| TCLP Semi Volatiles                            |   |
| TCLP Pesticides                                |   |
| RCI  |   |
| GC/MS Vol. 8280 / 624                          |   |
| GC/MS Semi Vol. 8270 / 625                     |   |
| PCB's 8082 / 608                               |   |
| Pesticides 8081 / 608                          |   |
| BOD, TSS, pH                                   |   |
| Moisture Content                               |   |
| Cl, F1, SO4, NO3, NO2, Alkalinity              |   |
| Na, Ca, Mg, K, TDS, EC                         |   |
| NITRATE EPA 800                                | X |
| TKN 5M 4500 NITRIF                             | X |
| CHLORIDE EPA 300                               | X |
| TDS 2540 C                                     | X |
| Turn Around Time if different from standard    |   |

Company Name: **D-H Petroleum - ENVIRONMENTAL** Phone #: **915-859-8150**

Address: **1221 Tower TRAIL** Fax #:

Contact Person: **VICTOR AYALA** E-mail: **VAYALAD@HPUMP.COM**

Invoice to: **PO BOX 167, MESQUITE, NM 88048 TIM HYDE 575/233-2029**

Project #: **4129546** Project Name: **BRIGHT STAR**

Project Location (including state): **BRIGHT STAR DMF, 13250 STERN DRIVE, MESQUITE, NM**

Sampler Signature: **Quiv**

| LAB #<br>(LAB USE)<br>ONLY | FIELD CODE     | # CONTAINERS | Volume / Amount | MATRIX |      |     | PRESERVATIVE METHOD |     |      |       |      | SAMPLING |      |       |       |
|----------------------------|----------------|--------------|-----------------|--------|------|-----|---------------------|-----|------|-------|------|----------|------|-------|-------|
|                            |                |              |                 | WATER  | SOIL | AIR | SLUDGE              | HCl | HNO3 | H2SO4 | NaOH | ICE      | NONE | DATE  | TIME  |
| 86                         | 86 / 340-01    | 1            | 200             |        |      |     |                     | X   |      |       |      | X        |      | 11-11 | 12:04 |
| 88                         | 88 / 340-01    | 1            |                 |        |      |     |                     | X   |      |       |      | X        |      |       | 12:04 |
| 89                         | 70-86 / 340-01 | 1            |                 |        |      |     |                     | X   |      |       |      | X        |      | 13:22 |       |
| 87                         | 70-86 / 340-01 | 1            |                 |        |      |     |                     | X   |      |       |      | X        |      | 13:22 |       |
| 90                         | 340-01         | 1            |                 |        |      |     |                     | X   |      |       |      | X        |      | 13:57 |       |
| 90                         | 340-01         | 1            |                 |        |      |     |                     | X   |      |       |      | X        |      | 13:57 |       |
| 91                         | 340-02         | 1            |                 |        |      |     |                     | X   |      |       |      | X        |      | 14:38 |       |
| 91                         | 340-02         | 1            |                 |        |      |     |                     | X   |      |       |      | X        |      | 14:30 |       |
| 92                         | LAGOON         | 1            |                 |        |      |     |                     | X   |      |       |      | X        |      | 14:08 |       |
| 92                         | LAGOON         | 1            |                 |        |      |     |                     | X   |      |       |      | X        |      | 14:08 |       |

Relinquished by: **D-H Petroleum** Company: **D-H** Date: **11-11-13** Time: **3:30**

Received by: **D-H** Company: **D-H** Date: **11-11-13** Time: **15:30**

Relinquished by: **D-H** Company: **D-H** Date: **11-11-13** Time: **16:40**

Received by: **D-H** Company: **D-H** Date: **11-11-13** Time: **16:40**

INST **12.2** INST **12.2**

OBS **2.0** OBS **2.0**

COR **3.0** COR **3.0**

LAB USE **LAB USE**

REMARKS: **ONLY CHLORIDES & F.P. NITRATE TKN & LUBACK**

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

Log-In-Review

Carrier # **Curry**







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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 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 5, 2013

Work Order: 13111829



DP: 177  
 Project Location: 14310 Stern Dr., Mesquite, NM  
 Project Name: Gonzalez Dairy Inc.

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

| Sample | Description  | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------|--------|------------|------------|---------------|
| 346899 | 177-01       | water  | 2013-11-18 | 14:03      | 2013-11-18    |
| 346900 | 177-02       | water  | 2013-11-18 | 14:34      | 2013-11-18    |
| 346901 | 177-03       | water  | 2013-11-18 | 13:00      | 2013-11-18    |
| 346902 | 177-04       | water  | 2013-11-18 | 11:40      | 2013-11-18    |
| 346903 | 177-05       | water  | 2013-11-18 | 10:31      | 2013-11-18    |
| 346904 | 177-07R      | water  | 2013-11-18 | 13:38      | 2013-11-18    |
| 346905 | 177 Lagoon 1 | water  | 2013-11-18 | 11:45      | 2013-11-18    |

## Notes

- **Work Order 13111829:** 5 ml H2SO4 added to sample # 346905-1 after pH check.

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

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

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

*Michael Abel*

---

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

# Report Contents

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## Case Narrative

Samples for project Gonzalez Dairy Inc. were received by TraceAnalysis, Inc. on 2013-11-18 and assigned to work order 13111829. Samples for work order 13111829 were received damaged at a temperature of 2 C.

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

| Test          | Method   | Prep Batch | Prep Date           | QC Batch | Analysis Date       |
|---------------|----------|------------|---------------------|----------|---------------------|
| Chloride (IC) | E 300.0  | 90520      | 2013-11-18 at 21:08 | 106899   | 2013-11-18 at 21:08 |
| NO3 (IC)      | E 300.0  | 90520      | 2013-11-18 at 21:08 | 106899   | 2013-11-18 at 21:08 |
| TDS           | SM 2540C | 90515      | 2013-11-19 at 14:15 | 106896   | 2013-11-19 at 14:15 |
| TKN           | E 351.3  | 90833      | 2013-12-03 at 13:00 | 107274   | 2013-12-03 at 17:00 |

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 13111829 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: 346899 - 177-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1330</b>     | <b>1330</b>     | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346899 - 177-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>33.2</b>     | <b>33.2</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346899 - 177-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3740</b>     | <b>3740</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346899 - 177-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346900 - 177-02**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 106899                              Date Analyzed: 2013-11-18                      Analyzed By: JR  
 Prep Batch: 90520                              Sample Preparation: 2013-11-18                      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>682</b>   | <b>682</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346900 - 177-02**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 106899                              Date Analyzed: 2013-11-18                      Analyzed By: JR  
 Prep Batch: 90520                              Sample Preparation: 2013-11-18                      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>111</b>   | <b>111</b>   | <2.13        | mg/L  | 50       | 2.13 | 0.5          | 0.0426       |

**Sample: 346900 - 177-02**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 106896                              Date Analyzed: 2013-11-19                      Analyzed By: MC  
 Prep Batch: 90515                              Sample Preparation: 2013-11-19                      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 | <b>3150</b>  | <b>3150</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346900 - 177-02**



Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346901 - 177-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1150</b>  | <b>1150</b>  | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346901 - 177-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>14.3</b>  | <b>14.3</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346901 - 177-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

*continued . . .*

*sample 346901 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3490</b>            | <b>3490</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346901 - 177-03**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107274

Prep Batch: 90833

Analytical Method: E 351.3

Date Analyzed: 2013-12-03

Sample Preparation: 2013-12-03

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346902 - 177-04**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 106899

Prep Batch: 90520

Analytical Method: E 300.0

Date Analyzed: 2013-11-18

Sample Preparation: 2013-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1260</b>            | <b>1260</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346902 - 177-04**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 106899

Prep Batch: 90520

Analytical Method: E 300.0

Date Analyzed: 2013-11-18

Sample Preparation: 2013-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>23.0</b>            | <b>23.0</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346902 - 177-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3850</b>            | <b>3850</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346902 - 177-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346903 - 177-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1580</b>            | <b>1580</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346903 - 177-05**



Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>33.5</b>     | <b>33.5</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346903 - 177-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>4360</b>     | <b>4360</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346903 - 177-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N |   | 2 | <b>2.10</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346904 - 177-07R**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

*continued ...*

*sample 346904 continued ...*

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>911</b>             | <b>911</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346904 - 177-07R**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>21.5</b>            | <b>21.5</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346904 - 177-07R**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3060</b>            | <b>3060</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346904 - 177-07R**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-----|---------------------|---------------------|
| Chloride  |   | 1 | <b>21000</b>           | <b>21000</b>           | <339                      | mg/L  | 500      | 339 | 2.5                 | 0.678               |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>6.77</b>            | <b>6.77</b>            | <0.426                    | mg/L  | 10       | 0.426 | 0.5                 | 0.0426              |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids | 1 | 1 | <b>68400</b>           | <b>68400</b>           | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

*continued ...*



*sample 346905 continued ...*

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
| Total Kjeldahl Nitrogen - N |   | 2 | <b>206</b>             | <b>206</b>             | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

## Method Blanks

### Method Blank (1)

QC Batch: 106896  
Prep Batch: 90515Date Analyzed: 2013-11-19  
QC Preparation: 2013-11-19Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107274  
Prep Batch: 90833Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03Analyzed By: SAS  
Prepared By: SAS

Report Date: December 5, 2013

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| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

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**Duplicate (1)** Duplicated Sample: 346901

QC Batch: 106896  
Prep Batch: 90515

Date Analyzed: 2013-11-19  
QC Preparation: 2013-11-19

Analyzed By: MC  
Prepared By: MC

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| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3550             | 3490          | mg/L  | 1        | 2   | 10        |

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 106896  
Prep Batch: 90515Date Analyzed: 2013-11-19  
QC Preparation: 2013-11-19Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 987           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 1010          | mg/L  | 1    | 1000            | <2.50            | 101  | 90 - 110      | 2   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.0          | mg/L  | 1    | 25.0            | <0.678           | 96   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 24.0          | mg/L  | 1    | 25.0            | <0.678           | 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: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 4.83          | mg/L  | 1    | 5.00            | <0.0426          | 97   | 90 - 110      |

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



| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 403          | mg/L  | 55.6 | 278             | 111              | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|-----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Nitrate-N |   | 1 | 392           | mg/L  | 55.6 | 278             | 111              | 101           | 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: 346899

QC Batch: 107274  
Prep Batch: 90833

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.9         | mg/L  | 1    | 50.0            | 2.8              | 102  | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|------------|--------------|----|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 2.8              | 99            | 41.1 - 118 | 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: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-18       |

### Standard (CCV-1)

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.01                   | 100                         | 90 - 110                      | 2013-11-18       |

### Standard (CCV-2)

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-11-18       |

### Standard (CCV-2)

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-3)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-3)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-4)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-4)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.02                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (ICV-1)**

QC Batch: 107274

Date Analyzed: 2013-12-03

Analyzed By: SAS

Report Date: December 5, 2013

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| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-03       |

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**Standard (CCV-1)**

QC Batch: 107274

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-03       |

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## Limits of Detection (LOD)

| Test          | Method   | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|----------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0  | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0  | water  | Dionex IC  | Nitrate-N                   | 0.126           | Pass |
| TDS           | SM 2540C | water  | N/A        | Total Dissolved Solids      | 0.00            | -    |
| TKN           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00            | Pass |

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# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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   |

## Result Comments

- 1 Sample will be reran for verification 11/20/13 Results due in 11/21/13.

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





**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 TX 79907 E-mail: vajala@dhpump.com  
Contact Person: Victor Ayala

Project Name: Joe Gonzalez 575-233-4801  
Project #: Gonzalez Dairy Inc.  
Project Location (including state):  
Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM  
Sampler Signature: *JAV*

| LAB #        | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | SAMPLING |       |
|--------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|-------|
|              |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE  |
| 177 Lagoon 1 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | 11-18-13 | 11:45 |
| 177 Lagoon 1 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | 11-18-13 | 11:45 |
| 177 Lagoon 2 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    |          |       |
| 177 Lagoon 2 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    |          |       |
| 177 Lagoon 3 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    |          |       |
| 177 Lagoon 3 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    |          |       |

| 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 NORGC | Chloride EPA 300 | Total Dissolved Solids SM 2540 C MOD | Turn Around Time | Hold |
|----------------|----------------|--------------------|------------------------|-----------|-------------------------------|--|------------------|-------------------|------------------|--------------------------------------|------------------|------|
|                |                |                    |                        |           |                               |  | X                | X                 | X                | X                                    |                  |      |
|                |                |                    |                        |           |                               |  | X                | X                 | X                | X                                    |                  |      |
|                |                |                    |                        |           |                               |  | X                | X                 | X                | X                                    |                  |      |
|                |                |                    |                        |           |                               |  | X                | X                 | X                | X                                    |                  |      |
|                |                |                    |                        |           |                               |  | X                | X                 | X                | X                                    |                  |      |

Relinquished By: *[Signature]* Date: 11-18-13 Time: 1447  
Received By: *[Signature]* Date: 11/18/13 Time: 1447  
Relinquished By: *[Signature]* Date: 11-18-13 Time: 1630  
Received By: *[Signature]* Date: 11/13/13 Time: 9:30

Lab Use Only  
Integrity *[Signature]* Date: 11-18-13 Time: 1447  
Headspace Y/N  
Temp 21.2°C  
Log-in Review *[Signature]*

Remarks:  
5ml NO<sub>3</sub>, Cl, TP<sub>5</sub> added to 346305-1 After H<sub>2</sub>SO<sub>4</sub> added  
neg Check  
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  
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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

Joe Gonzalez  
 Gonzalez Farmes  
 14310 Stern Drive  
 P.O. Box 199  
 Mesquite, NM, 88048

Report Date: December 5, 2013

Work Order: 13111829



DP: 177  
 Project Location: 14310 Stern Dr., Mesquite, NM  
 Project Name: Gonzalez Dairy Inc.

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

| Sample | Description  | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------|--------|------------|------------|---------------|
| 346899 | 177-01       | water  | 2013-11-18 | 14:03      | 2013-11-18    |
| 346900 | 177-02       | water  | 2013-11-18 | 14:34      | 2013-11-18    |
| 346901 | 177-03       | water  | 2013-11-18 | 13:00      | 2013-11-18    |
| 346902 | 177-04       | water  | 2013-11-18 | 11:40      | 2013-11-18    |
| 346903 | 177-05       | water  | 2013-11-18 | 10:31      | 2013-11-18    |
| 346904 | 177-07R      | water  | 2013-11-18 | 13:38      | 2013-11-18    |
| 346905 | 177 Lagoon 1 | water  | 2013-11-18 | 11:45      | 2013-11-18    |

## Notes

- **Work Order 13111829:** 5 ml H2SO4 added to sample # 346905-1 after pH check.

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

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

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



*Michael Abel*

---

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

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## Case Narrative

Samples for project Gonzalez Dairy Inc. were received by TraceAnalysis, Inc. on 2013-11-18 and assigned to work order 13111829. Samples for work order 13111829 were received damaged at a temperature of 2 C.

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

| Test          | Method   | Prep Batch | Prep Date           | QC Batch | Analysis Date       |
|---------------|----------|------------|---------------------|----------|---------------------|
| Chloride (IC) | E 300.0  | 90520      | 2013-11-18 at 21:08 | 106899   | 2013-11-18 at 21:08 |
| NO3 (IC)      | E 300.0  | 90520      | 2013-11-18 at 21:08 | 106899   | 2013-11-18 at 21:08 |
| TDS           | SM 2540C | 90515      | 2013-11-19 at 14:15 | 106896   | 2013-11-19 at 14:15 |
| TKN           | E 351.3  | 90833      | 2013-12-03 at 13:00 | 107274   | 2013-12-03 at 17:00 |

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 13111829 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: 346899 - 177-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1330</b>     | <b>1330</b>     | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346899 - 177-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>33.2</b>     | <b>33.2</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346899 - 177-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3740</b>     | <b>3740</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346899 - 177-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL         | SQL   | Method | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-------------|-------|--------|-------|----------|------|--------------|--------------|
|                             |   |   | Based       | Based | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b> | <10.0 | <1.66  | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346900 - 177-02**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 106899                              Date Analyzed: 2013-11-18                      Analyzed By: JR  
 Prep Batch: 90520                              Sample Preparation: 2013-11-18                      Prepared By: JR

| Parameter | F | C | SDL        | SQL        | Method | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|------------|------------|--------|-------|----------|------|--------------|--------------|
|           |   |   | Based      | Based      | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>682</b> | <b>682</b> | <33.9  | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346900 - 177-02**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 106899                              Date Analyzed: 2013-11-18                      Analyzed By: JR  
 Prep Batch: 90520                              Sample Preparation: 2013-11-18                      Prepared By: JR

| Parameter | F | C | SDL        | SQL        | Method | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|------------|------------|--------|-------|----------|------|--------------|--------------|
|           |   |   | Based      | Based      | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>111</b> | <b>111</b> | <2.13  | mg/L  | 50       | 2.13 | 0.5          | 0.0426       |

**Sample: 346900 - 177-02**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 106896                              Date Analyzed: 2013-11-19                      Analyzed By: MC  
 Prep Batch: 90515                              Sample Preparation: 2013-11-19                      Prepared By: MC

| Parameter              | F | C | SDL         | SQL         | Method | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-------------|-------------|--------|-------|----------|------|--------------|--------------|
|                        |   |   | Based       | Based       | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3150</b> | <b>3150</b> | <2.50  | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346900 - 177-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346901 - 177-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1150</b>     | <b>1150</b>     | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346901 - 177-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>14.3</b>     | <b>14.3</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346901 - 177-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

*continued . . .*



*sample 346901 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3490</b>            | <b>3490</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346901 - 177-03**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107274

Prep Batch: 90833

Analytical Method: E 351.3

Date Analyzed: 2013-12-03

Sample Preparation: 2013-12-03

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346902 - 177-04**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 106899

Prep Batch: 90520

Analytical Method: E 300.0

Date Analyzed: 2013-11-18

Sample Preparation: 2013-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1260</b>            | <b>1260</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346902 - 177-04**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 106899

Prep Batch: 90520

Analytical Method: E 300.0

Date Analyzed: 2013-11-18

Sample Preparation: 2013-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>23.0</b>            | <b>23.0</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346902 - 177-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3850</b>            | <b>3850</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346902 - 177-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346903 - 177-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1580</b>            | <b>1580</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346903 - 177-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>33.5</b>     | <b>33.5</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346903 - 177-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>4360</b>     | <b>4360</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346903 - 177-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N |   | 2 | <b>2.10</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346904 - 177-07R**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

*continued ...*



*sample 346904 continued ...*

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>911</b>             | <b>911</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346904 - 177-07R**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>21.5</b>            | <b>21.5</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346904 - 177-07R**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3060</b>            | <b>3060</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346904 - 177-07R**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-----|---------------------|---------------------|
| Chloride  |   | 1 | <b>21000</b>           | <b>21000</b>           | <339                      | mg/L  | 500      | 339 | 2.5                 | 0.678               |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>6.77</b>            | <b>6.77</b>            | <0.426                    | mg/L  | 10       | 0.426 | 0.5                 | 0.0426              |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids | 1 | 1 | <b>68400</b>           | <b>68400</b>           | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

*continued ...*

*sample 346905 continued ...*

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-----|---------------------|---------------------|
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-----|---------------------|---------------------|

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <b>206</b>             | <b>206</b>             | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |



## Method Blanks

### Method Blank (1)

QC Batch: 106896  
Prep Batch: 90515Date Analyzed: 2013-11-19  
QC Preparation: 2013-11-19Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107274  
Prep Batch: 90833Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03Analyzed By: SAS  
Prepared By: SAS

Report Date: December 5, 2013

Work Order: 13111829  
Gonzalez Dairy Inc.

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14310 Stern Dr., Mesquite, NM

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| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

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**Duplicate (1)** Duplicated Sample: 346901

QC Batch: 106896  
Prep Batch: 90515

Date Analyzed: 2013-11-19  
QC Preparation: 2013-11-19

Analyzed By: MC  
Prepared By: MC

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| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3550             | 3490          | mg/L  | 1        | 2   | 10        |

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 106896  
Prep Batch: 90515Date Analyzed: 2013-11-19  
QC Preparation: 2013-11-19Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 987           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 1010          | mg/L  | 1    | 1000            | <2.50            | 101  | 90 - 110      | 2   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.0          | mg/L  | 1    | 25.0            | <0.678           | 96   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 24.0          | mg/L  | 1    | 25.0            | <0.678           | 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: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 4.83          | mg/L  | 1    | 5.00            | <0.0426          | 97   | 90 - 110      |

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





| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 403          | mg/L  | 55.6 | 278             | 111              | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 392           | mg/L  | 55.6 | 278             | 111              | 101  | 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: 346899

QC Batch: 107274  
Prep Batch: 90833

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.9         | mg/L  | 1    | 50.0            | 2.8              | 102  | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 2.8              | 99   | 41.1 - 118    | 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: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-18       |

### Standard (CCV-1)

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.01                   | 100                         | 90 - 110                      | 2013-11-18       |

### Standard (CCV-2)

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-11-18       |

### Standard (CCV-2)

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-11-18       |



**Standard (CCV-3)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-3)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-4)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-4)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.02                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (ICV-1)**

QC Batch: 107274

Date Analyzed: 2013-12-03

Analyzed By: SAS

Report Date: December 5, 2013

Work Order: 13111829  
Gonzalez Dairy Inc.

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14310 Stern Dr., Mesquite, NM

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| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-03       |

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**Standard (CCV-1)**

QC Batch: 107274

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-03       |

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## 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                   | 0.126        | Pass |
| TDS           | SM 2540C | water  | N/A        | Total Dissolved Solids      | 0.00         | -    |
| TKN           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00         | Pass |



# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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   |

## Result Comments

- Sample will be reran for verification 11/20/13 Results due in 11/21/13.

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





**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 TX 79907 E-mail: vajala@dhpump.com  
Contact Person: Victor Ayala

Project Name: Joe Gonzalez 575-233-4801  
Project #: Gonzalez Dairy Inc.  
Project Location (including state): Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM  
Sampler Signature: *JAV*

| LAB #        | Field Code | # Containers | Volume/Amount | MATRIX |      |     | PRESERVATIVE METHOD |     |                  |                                | SAMPLING |          |       |
|--------------|------------|--------------|---------------|--------|------|-----|---------------------|-----|------------------|--------------------------------|----------|----------|-------|
|              |            |              |               | WATER  | SOIL | AIR | SLUDGE              | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH     | ICE      | NONE  |
| 177 Lagoon 1 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X        | 11-18-13 | 11:45 |
| 177 Lagoon 1 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X        | 11-18-13 | 11:45 |
| 177 Lagoon 2 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X        |          |       |
| 177 Lagoon 2 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X        |          |       |
| 177 Lagoon 3 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X        |          |       |
| 177 Lagoon 3 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X        |          |       |

| 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 NORGC | Chloride EPA 300 | Total Dissolved Solids SM 2540 C MOD | Turn Around Time | Hold |
|----------------|----------------|--------------------|------------------------|-----------|-------------------------------|--|------------------|-------------------|------------------|--------------------------------------|------------------|------|
|                |                |                    |                        |           |                               |  | X                | X                 | X                | X                                    |                  |      |
|                |                |                    |                        |           |                               |  | X                | X                 | X                | X                                    |                  |      |
|                |                |                    |                        |           |                               |  | X                | X                 | X                | X                                    |                  |      |
|                |                |                    |                        |           |                               |  | X                | X                 | X                | X                                    |                  |      |
|                |                |                    |                        |           |                               |  | X                | X                 | X                | X                                    |                  |      |

Relinquished By: *[Signature]* Date: 11-18-13 Time: 1447  
Received By: *[Signature]* Date: 11/18/13 Time: 1447  
Relinquished By: *[Signature]* Date: 11-18-13 Time: 1630  
Received By: *[Signature]* Date: 11/13 9:30  
Lab Use Only: *[Signature]* Date: 11-18-13 Time: 1447  
Remarks: Intact *[Signature]* 5ml NO<sub>3</sub>, Cl, TP<sub>3</sub> added to 346305-1 After Check  
Dry Weight Basis Required  
TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
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## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

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Report Date: December 5, 2013

Work Order: 13111829



DP: 177  
 Project Location: 14310 Stern Dr., Mesquite, NM  
 Project Name: Gonzalez Dairy Inc.

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

| Sample | Description  | Matrix | Date Taken | Time Taken | Date Received |
|--------|--------------|--------|------------|------------|---------------|
| 346899 | 177-01       | water  | 2013-11-18 | 14:03      | 2013-11-18    |
| 346900 | 177-02       | water  | 2013-11-18 | 14:34      | 2013-11-18    |
| 346901 | 177-03       | water  | 2013-11-18 | 13:00      | 2013-11-18    |
| 346902 | 177-04       | water  | 2013-11-18 | 11:40      | 2013-11-18    |
| 346903 | 177-05       | water  | 2013-11-18 | 10:31      | 2013-11-18    |
| 346904 | 177-07R      | water  | 2013-11-18 | 13:38      | 2013-11-18    |
| 346905 | 177 Lagoon 1 | water  | 2013-11-18 | 11:45      | 2013-11-18    |

## Notes

- **Work Order 13111829:** 5 ml H2SO4 added to sample # 346905-1 after pH check.

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

This report consists of a total of 24 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

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

*Michael Abel*

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



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## Case Narrative

Samples for project Gonzalez Dairy Inc. were received by TraceAnalysis, Inc. on 2013-11-18 and assigned to work order 13111829. Samples for work order 13111829 were received damaged at a temperature of 2 C.

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

| Test          | Method   | Prep Batch | Prep Date           | QC Batch | Analysis Date       |
|---------------|----------|------------|---------------------|----------|---------------------|
| Chloride (IC) | E 300.0  | 90520      | 2013-11-18 at 21:08 | 106899   | 2013-11-18 at 21:08 |
| NO3 (IC)      | E 300.0  | 90520      | 2013-11-18 at 21:08 | 106899   | 2013-11-18 at 21:08 |
| TDS           | SM 2540C | 90515      | 2013-11-19 at 14:15 | 106896   | 2013-11-19 at 14:15 |
| TKN           | E 351.3  | 90833      | 2013-12-03 at 13:00 | 107274   | 2013-12-03 at 17:00 |

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 13111829 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: 346899 - 177-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1330</b>            | <b>1330</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346899 - 177-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>33.2</b>            | <b>33.2</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346899 - 177-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3740</b>            | <b>3740</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346899 - 177-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS



| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346900 - 177-02**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 106899                              Date Analyzed: 2013-11-18                      Analyzed By: JR  
 Prep Batch: 90520                              Sample Preparation: 2013-11-18                      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>682</b>   | <b>682</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346900 - 177-02**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 106899                              Date Analyzed: 2013-11-18                              Analyzed By: JR  
 Prep Batch: 90520                              Sample Preparation: 2013-11-18                              Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>111</b>   | <b>111</b>   | <2.13        | mg/L  | 50       | 2.13 | 0.5          | 0.0426       |

**Sample: 346900 - 177-02**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 106896                              Date Analyzed: 2013-11-19                              Analyzed By: MC  
 Prep Batch: 90515                              Sample Preparation: 2013-11-19                              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 | <b>3150</b>  | <b>3150</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346900 - 177-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346901 - 177-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1150</b>  | <b>1150</b>  | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346901 - 177-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>14.3</b>  | <b>14.3</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346901 - 177-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

*continued . . .*

*sample 346901 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3490</b>            | <b>3490</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346901 - 177-03**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107274

Prep Batch: 90833

Analytical Method: E 351.3

Date Analyzed: 2013-12-03

Sample Preparation: 2013-12-03

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346902 - 177-04**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 106899

Prep Batch: 90520

Analytical Method: E 300.0

Date Analyzed: 2013-11-18

Sample Preparation: 2013-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1260</b>            | <b>1260</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346902 - 177-04**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 106899

Prep Batch: 90520

Analytical Method: E 300.0

Date Analyzed: 2013-11-18

Sample Preparation: 2013-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR



| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>23.0</b>            | <b>23.0</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346902 - 177-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3850</b>            | <b>3850</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346902 - 177-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346903 - 177-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1580</b>            | <b>1580</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346903 - 177-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>33.5</b>     | <b>33.5</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346903 - 177-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>4360</b>     | <b>4360</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346903 - 177-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346904 - 177-07R**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

*continued ...*

*sample 346904 continued ...*

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>911</b>             | <b>911</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346904 - 177-07R**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>21.5</b>            | <b>21.5</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346904 - 177-07R**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3060</b>            | <b>3060</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346904 - 177-07R**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-----|---------------------|---------------------|
| Chloride  |   | 1 | <b>21000</b>           | <b>21000</b>           | <339                      | mg/L  | 500      | 339 | 2.5                 | 0.678               |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106899 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90520 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>6.77</b>            | <b>6.77</b>            | <0.426                    | mg/L  | 10       | 0.426 | 0.5                 | 0.0426              |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106896 Date Analyzed: 2013-11-19 Analyzed By: MC  
 Prep Batch: 90515 Sample Preparation: 2013-11-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids | 1 | 1 | <b>68400</b>           | <b>68400</b>           | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346905 - 177 Lagoon 1**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

*continued ...*



sample 346905 continued ...

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <b>206</b>             | <b>206</b>             | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

## Method Blanks

### Method Blank (1)

QC Batch: 106896  
Prep Batch: 90515Date Analyzed: 2013-11-19  
QC Preparation: 2013-11-19Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107274  
Prep Batch: 90833Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03Analyzed By: SAS  
Prepared By: SAS

Report Date: December 5, 2013

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Gonzalez Dairy Inc.

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14310 Stern Dr., Mesquite, NM

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| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

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**Duplicate (1)** Duplicated Sample: 346901

QC Batch: 106896  
Prep Batch: 90515

Date Analyzed: 2013-11-19  
QC Preparation: 2013-11-19

Analyzed By: MC  
Prepared By: MC

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| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3550             | 3490          | mg/L  | 1        | 2   | 10        |

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 106896  
Prep Batch: 90515Date Analyzed: 2013-11-19  
QC Preparation: 2013-11-19Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 987           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Total Dissolved Solids |   | 1 | 1010          | mg/L  | 1    | 1000            | <2.50            | 101           | 90 - 110 | 2            | 10 |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.0          | mg/L  | 1    | 25.0            | <0.678           | 96   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Chloride |   | 1 | 24.0          | mg/L  | 1    | 25.0            | <0.678           | 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: 106899  
Prep Batch: 90520Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 4.83          | mg/L  | 1    | 5.00            | <0.0426          | 97   | 90 - 110      |

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



| Param     | F | C | LCSD   |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
|           |   |   | Result | Units |      |              |               |      |            |     |           |
| Nitrate-N |   | 1 | 4.83   | mg/L  | 1    | 5.00         | <0.0426       | 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: 107274  
Prep Batch: 90833

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|
|                             |   |   | Result | Units |      |              |               |      |            |
| Total Kjeldahl Nitrogen - N |   | 2 | 51.1   | mg/L  | 1    | 50.0         | <1.66         | 102  | 75.5 - 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 | 50.4   | mg/L  | 1    | 50.0         | <1.66         | 101  | 75.5 - 115 | 1   | 20        |

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

**Matrix Spike (MS-1)** Spiked Sample: 346900

QC Batch: 106899  
Prep Batch: 90520

Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS     |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------|-------|------|--------------|---------------|------|------------|
|          |   |   | Result | Units |      |              |               |      |            |
| Chloride |   | 1 | 2190   | mg/L  | 55.6 | 1390         | 682           | 108  | 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 | 2140   | mg/L  | 55.6 | 1390         | 682           | 105  | 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: 346900

QC Batch: 106899  
Prep Batch: 90520

Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 403          | mg/L  | 55.6 | 278             | 111              | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|-----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Nitrate-N |   | 1 | 392           | mg/L  | 55.6 | 278             | 111              | 101           | 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: 346899

QC Batch: 107274  
Prep Batch: 90833

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.9         | mg/L  | 1    | 50.0            | 2.8              | 102  | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|------------|--------------|----|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 2.8              | 99            | 41.1 - 118 | 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: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-18       |

### Standard (CCV-1)

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.01                   | 100                         | 90 - 110                      | 2013-11-18       |

### Standard (CCV-2)

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-11-18       |

### Standard (CCV-2)

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-3)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-3)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-4)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-4)**

QC Batch: 106899

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.02                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (ICV-1)**

QC Batch: 107274

Date Analyzed: 2013-12-03

Analyzed By: SAS



Report Date: December 5, 2013

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| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-03       |

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**Standard (CCV-1)**

QC Batch: 107274

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-03       |

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## Limits of Detection (LOD)

| Test          | Method   | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|----------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0  | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0  | water  | Dionex IC  | Nitrate-N                   | 0.126           | Pass |
| TDS           | SM 2540C | water  | N/A        | Total Dissolved Solids      | 0.00            | -    |
| TKN           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00            | Pass |

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# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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   |

## Result Comments

- 1 Sample will be reran for verification 11/20/13 Results due in 11/21/13.

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.





**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 TX 79907 E-mail: vajala@dhpump.com  
Contact Person: Victor Ayala

Project Name: Joe Gonzalez 575-233-4801  
Project #: Gonzalez Dairy Inc.  
Project Location (including state):  
Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM  
Sampler Signature: *JAV*

| LAB #        | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | Sampling |       |
|--------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|-------|
|              |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE  |
| 177 Lagoon 1 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | 11-18-13 | 11:45 |
| 177 Lagoon 1 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    | 11-18-13 | 11:45 |
| 177 Lagoon 2 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    |          |       |
| 177 Lagoon 2 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    |          |       |
| 177 Lagoon 3 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    |          |       |
| 177 Lagoon 3 |            | 1            |               | X      |      |     |        | X                   | X                | X                              | X    |          |       |

| LAB #  | Field Code | # Containers | Volume/Amount | WATER | SOIL | AIR | SLUDGE | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE | NONE | DATE | TIME | Turn Around Time | 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                                 |            |              |               |       |      |     |        |     |                  |                                |      |     |      |      |      |                  |      |  |
| TKN SM 4500 NORGC                                |            |              |               |       |      |     |        |     |                  |                                |      |     |      |      |      |                  |      |  |
| Chloride EPA 300                                 |            |              |               |       |      |     |        |     |                  |                                |      |     |      |      |      |                  |      |  |
| Total Dissolved Solids SM 2540 C MOD             |            |              |               |       |      |     |        |     |                  |                                |      |     |      |      |      |                  |      |  |

Relinquished By: *[Signature]* Date: 11-18-13 Time: 1447  
Received By: *[Signature]* Date: 11/18/13 Time: 1447  
Relinquished By: *[Signature]* Date: 11-18-13 Time: 1630  
Received By: *[Signature]* Date: 11/13 Time: 9:30

Remarks: Intake of 5ml NO<sub>3</sub>, Cl, TP<sub>5</sub> in 500 ml H<sub>2</sub>O added to 346305-1 After Check  
Lab Use Only  
Headspace Y / N  
Temp 21.2 °C  
Log-in Reviewer: *[Signature]*  
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 #1  
 13950 Stern Drive  
 P.O. Box 21  
 Mesquite, NM, 88048

Report Date: December 5, 2013

Work Order: 13111923



DP: 624  
 Project Location: 13950 Stern Dr., Mesquite, NM  
 Project Name: Dominguez Dairy #1

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 346992 | 624-01      | water  | 2013-11-19 | 09:17      | 2013-11-19    |
| 346993 | 624-02      | water  | 2013-11-19 | 10:49      | 2013-11-19    |
| 346994 | 624-LAGOON  | water  | 2013-11-19 | 11:10      | 2013-11-19    |

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 18 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

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

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

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## Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2013-11-19 and assigned to work order 13111923. Samples for work order 13111923 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  | 90646      | 2013-11-20 at 12:16 | 107056   | 2013-11-20 at 12:16 |
| Chloride (IC) | E 300.0  | 90838      | 2013-11-26 at 18:56 | 107278   | 2013-11-26 at 18:56 |
| NO3 (IC)      | E 300.0  | 90646      | 2013-11-20 at 12:16 | 107056   | 2013-11-20 at 12:16 |
| TDS           | SM 2540C | 90553      | 2013-11-20 at 15:00 | 106945   | 2013-11-20 at 15:00 |
| TKN           | E 351.3  | 90833      | 2013-12-03 at 13:00 | 107274   | 2013-12-03 at 17:00 |

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 13111923 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: 346992 - 624-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107056 Date Analyzed: 2013-11-20 Analyzed By: JR  
 Prep Batch: 90646 Sample Preparation: 2013-11-20 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1080</b>     | <b>1080</b>     | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346992 - 624-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107056 Date Analyzed: 2013-11-20 Analyzed By: JR  
 Prep Batch: 90646 Sample Preparation: 2013-11-20 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>23.6</b>     | <b>23.6</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346992 - 624-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106945 Date Analyzed: 2013-11-20 Analyzed By: MC  
 Prep Batch: 90553 Sample Preparation: 2013-11-20 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3250</b>     | <b>3250</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346992 - 624-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346993 - 624-02**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107056                              Date Analyzed: 2013-11-20                      Analyzed By: JR  
 Prep Batch: 90646                              Sample Preparation: 2013-11-20                      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>969</b>   | <b>969</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346993 - 624-02**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107056                              Date Analyzed: 2013-11-20                      Analyzed By: JR  
 Prep Batch: 90646                              Sample Preparation: 2013-11-20                      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>12.6</b>  | <b>12.6</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346993 - 624-02**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 106945                              Date Analyzed: 2013-11-20                      Analyzed By: MC  
 Prep Batch: 90553                              Sample Preparation: 2013-11-20                      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 | <b>3200</b>  | <b>3200</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346993 - 624-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107274 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90833 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>9.10</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346994 - 624-LAGOON**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>3800</b>  | <b>3800</b>  | <67.8        | mg/L  | 100      | 67.8 | 2.5          | 0.678        |

**Sample: 346994 - 624-LAGOON**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107056 Date Analyzed: 2013-11-20 Analyzed By: JR  
 Prep Batch: 90646 Sample Preparation: 2013-11-20 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>3.65</b>  | <b>3.65</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346994 - 624-LAGOON**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106945 Date Analyzed: 2013-11-20 Analyzed By: MC  
 Prep Batch: 90553 Sample Preparation: 2013-11-20 Prepared By: MC

*continued . . .*



sample 346994 continued ...

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>16000</b>           | <b>16000</b>           | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346994 - 624-LAGOON**

Laboratory: Lubbock  
Analysis: TKN  
QC Batch: 107274  
Prep Batch: 90833

Analytical Method: E 351.3  
Date Analyzed: 2013-12-03  
Sample Preparation: 2013-12-03

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

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <b>212</b>             | <b>212</b>             | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

## Method Blanks

### Method Blank (1)

QC Batch: 106945  
Prep Batch: 90553Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107056  
Prep Batch: 90646Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107056  
Prep Batch: 90646Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Nitrate-N |   | 1 | 0.159  | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107274  
Prep Batch: 90833Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03Analyzed By: SAS  
Prepared By: SAS

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| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

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**Method Blank (1)**

QC Batch: 107278  
Prep Batch: 90838

Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26

Analyzed By: JR  
Prepared By: JR

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| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | 1.35   | mg/L  | 0.678            |

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**Duplicate (1)** Duplicated Sample: 346992

QC Batch: 106945  
Prep Batch: 90553

Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20

Analyzed By: MC  
Prepared By: MC

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| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3230             | 3250          | mg/L  | 1        | 1   | 10        |

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 106945  
Prep Batch: 90553Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 969           | 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 | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 995           | 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: 107056  
Prep Batch: 90646Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.8          | mg/L  | 1    | 25.0            | <0.678           | 99   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 24.9          | mg/L  | 1    | 25.0            | <0.678           | 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: 107056  
Prep Batch: 90646Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 5.00          | mg/L  | 1    | 5.00            | <0.0426          | 100  | 90 - 110      |

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





| Param    | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|          |   |   | Result | Units |      |                 |                  |      |               |
| Chloride |   | 1 | 2050   | mg/L  | 55.6 | 1390            | 570              | 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|          |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Chloride |   | 1 | 2040   | mg/L  | 55.6 | 1390            | 570              | 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: 346996

QC Batch: 107056  
Prep Batch: 90646

Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|           |   |   | Result | Units |      |                 |                  |      |               |
| Nitrate-N |   | 1 | 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    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|           |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Nitrate-N |   | 1 | 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: 346899

QC Batch: 107274  
Prep Batch: 90833

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 53.9   | mg/L  | 1    | 50.0            | 2.8              | 102  | 41.1 - 118    |

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

| Param                       | F | C | MSD    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5   | mg/L  | 1    | 50.0            | 2.8              | 99   | 41.1 - 118    | 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: 347572

QC Batch: 107278  
 Prep Batch: 90838

Date Analyzed: 2013-11-26  
 QC Preparation: 2013-11-26

Analyzed By: JR  
 Prepared By: JR

| Param    | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 1790         | mg/L  | 55.6 | 1390            | 341              | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 1800          | mg/L  | 55.6 | 1390            | 341              | 105  | 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: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.4                   | 98                          | 90 - 110                      | 2013-11-20       |

### Standard (CCV-1)

QC Batch: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.92                   | 98                          | 90 - 110                      | 2013-11-20       |

### Standard (CCV-2)

QC Batch: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-20       |

### Standard (CCV-2)

QC Batch: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.92                   | 98                          | 90 - 110                      | 2013-11-20       |



**Standard (CCV-3)**

QC Batch: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.6                   | 98                          | 90 - 110                      | 2013-11-20       |

**Standard (CCV-3)**

QC Batch: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.95                   | 99                          | 90 - 110                      | 2013-11-20       |

**Standard (ICV-1)**

QC Batch: 107274

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-03       |

**Standard (CCV-1)**

QC Batch: 107274

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-03       |

**Standard (CCV-1)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.5                   | 98                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-2)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.6                   | 98                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-3)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-4)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-5)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-26       |

---

## Limits of Detection (LOD)

| Test          | Method   | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|----------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0  | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0  | water  | Dionex IC  | Nitrate-N                   | 0.126           | Pass |
| TDS           | SM 2540C | water  | N/A        | Total Dissolved Solids      | 0.00            | -    |
| TKN           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00            | Pass |

---

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | Lubbock             |

## Standard Flags

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

## Attachments

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



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

Project #:   
Project Name: Isaac Dominguez 575-649-7040  
Project Location (including state): Dominguez Dairy #1, PO Box 21, Mesquite, NM 88048  
Project #:   
Project Name: Dominguez Dairy #1  
Sampler Signature: *Jufy*

| LAB # | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | Sampling |      |          |       |
|-------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|------|----------|-------|
|       |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE | DATE     | TIME  |
| 34692 | 624-01     | 1            | 200           | X      |      |     |        | X                   |                  |                                |      | X        |      | 11-19-13 | 09:17 |
| 1-2   | 624-01     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          | 09:17 |
| 34693 | 624-02     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          | 10:49 |
| 1-2   | 624-02     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          | 10:49 |
|       | 624-04     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
|       | 624-04     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
|       | 624-05     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
|       | 624-05     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
|       | 624-06     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
|       | 624-06     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
|       | 624-07     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
|       | 624-07     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
|       | 624-08     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
|       | 624-08     | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
| 34694 | 624 Lagoon | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          | 11:10 |
| 1-2   | 624 Lagoon | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          | 11:10 |

| LAB USE ONLY | Field Code | # Containers | Volume/Amount | MATRIX | PRESERVATIVE METHOD | DATE     | TIME  | MTBE 8021B/602 | BTEX 8021B/602 | TPH 418.1 / TX1005 | TX 1005 Extended (C35) | PAH 8270C | PAH 8270 (Low Level Analysis) | Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7 | Nitrates EPA 300 | TKN SM 4500 NORG C | Chloride EPA 300 | Total Dissolved Solids SM 2540 C MOD | Turn Around Time | Hold |
|--------------|------------|--------------|---------------|--------|---------------------|----------|-------|----------------|----------------|--------------------|------------------------|-----------|-------------------------------|--|------------------|--------------------|------------------|--------------------------------------|------------------|------|
|              | 624-01     | 1            | 200           | X      | X                   | 11-19-13 | 09:17 |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-01     | 1            |               | X      | X                   |          | 09:17 |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-02     | 1            |               | X      | X                   |          | 10:49 |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-02     | 1            |               | X      | X                   |          | 10:49 |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-04     | 1            |               | X      | X                   |          |       |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-04     | 1            |               | X      | X                   |          |       |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-05     | 1            |               | X      | X                   |          |       |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-05     | 1            |               | X      | X                   |          |       |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-06     | 1            |               | X      | X                   |          |       |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-06     | 1            |               | X      | X                   |          |       |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-07     | 1            |               | X      | X                   |          |       |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-07     | 1            |               | X      | X                   |          |       |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-08     | 1            |               | X      | X                   |          |       |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624-08     | 1            |               | X      | X                   |          |       |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624 Lagoon | 1            |               | X      | X                   |          | 11:10 |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |
|              | 624 Lagoon | 1            |               | X      | X                   |          | 11:10 |                |                |                    |                        |           |                               |  | X                | X                  | X                | X                                    |                  |      |

Relinquished By: *Jufy* Date: 11-19-13 Time: 14:43  
 Relinquished By: *Danny de Haan* Date: 11-19-13 Time: 16:30  
 Received By: *Danny de Haan* Date: 11-19-17 Time: 14:43  
 Received at Laboratory By: *ASge TA* Date: 11/20/13 Time: 9:00  
 Lab Use Only: Intact  Y /  N  
 Headspace  Y /  N  
 Temp *12-2 2/20/13*  
 Log-In Review  Y /  N  
 Remarks: *ICE El. PASO NO3, CL, TDS @ Lubbock TKN @ Lubbock PS: H8590239*  
 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

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

Report Date: December 5, 2013

Work Order: 13111924



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

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 346995 | 74-1        | water  | 2013-11-19 | 12:33      | 2013-11-19    |
| 346996 | 74-4        | water  | 2013-11-19 | 13:11      | 2013-11-19    |
| 346997 | 74-5        | water  | 2013-11-19 | 14:22      | 2013-11-19    |

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 16 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

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

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

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## Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2013-11-19 and assigned to work order 13111924. Samples for work order 13111924 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  | 90646      | 2013-11-20 at 12:16 | 107056   | 2013-11-20 at 12:16 |
| NO3 (IC)      | E 300.0  | 90646      | 2013-11-20 at 12:16 | 107056   | 2013-11-20 at 12:16 |
| TDS           | SM 2540C | 90553      | 2013-11-20 at 15:00 | 106945   | 2013-11-20 at 15:00 |
| TKN           | E 351.3  | 90836      | 2013-12-03 at 13:00 | 107277   | 2013-12-03 at 17:30 |

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 13111924 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: 346995 - 74-1**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107056 Date Analyzed: 2013-11-20 Analyzed By: JR  
 Prep Batch: 90646 Sample Preparation: 2013-11-20 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>898</b>      | <b>898</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346995 - 74-1**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107056 Date Analyzed: 2013-11-20 Analyzed By: JR  
 Prep Batch: 90646 Sample Preparation: 2013-11-20 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>63.6</b>     | <b>63.6</b>     | <0.426          | mg/L  | 10       | 0.426 | 0.5          | 0.0426       |

**Sample: 346995 - 74-1**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106945 Date Analyzed: 2013-11-20 Analyzed By: MC  
 Prep Batch: 90553 Sample Preparation: 2013-11-20 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3210</b>     | <b>3210</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346995 - 74-1**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107277 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90836 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>4.20</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346996 - 74-4**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107056 Date Analyzed: 2013-11-20 Analyzed By: JR  
 Prep Batch: 90646 Sample Preparation: 2013-11-20 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>570</b>      | <b>570</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346996 - 74-4**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107056 Date Analyzed: 2013-11-20 Analyzed By: JR  
 Prep Batch: 90646 Sample Preparation: 2013-11-20 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>17.3</b>     | <b>17.3</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346996 - 74-4**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106945 Date Analyzed: 2013-11-20 Analyzed By: MC  
 Prep Batch: 90553 Sample Preparation: 2013-11-20 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>1910</b>     | <b>1910</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346996 - 74-4**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107277 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90836 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346997 - 74-5**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107056 Date Analyzed: 2013-11-20 Analyzed By: JR  
 Prep Batch: 90646 Sample Preparation: 2013-11-20 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>493</b>   | <b>493</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346997 - 74-5**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107056 Date Analyzed: 2013-11-20 Analyzed By: JR  
 Prep Batch: 90646 Sample Preparation: 2013-11-20 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>18.4</b>  | <b>18.4</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346997 - 74-5**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106945 Date Analyzed: 2013-11-20 Analyzed By: MC  
 Prep Batch: 90553 Sample Preparation: 2013-11-20 Prepared By: MC

*continued . . .*

sample 346997 continued ...

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | 1840                   | 1840                   | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346997 - 74-5**

Laboratory: Lubbock  
Analysis: TKN  
QC Batch: 107277  
Prep Batch: 90836

Analytical Method: E 351.3  
Date Analyzed: 2013-12-03  
Sample Preparation: 2013-12-03

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

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |



## Method Blanks

### Method Blank (1)

QC Batch: 106945  
Prep Batch: 90553Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107056  
Prep Batch: 90646Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107056  
Prep Batch: 90646Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Nitrate-N |   | 1 | 0.159  | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107277  
Prep Batch: 90836Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03Analyzed By: SAS  
Prepared By: SAS

Report Date: December 5, 2013

Work Order: 13111924  
Buena Vista Dairy #2

Page Number: 9 of 16  
16910 Stern Drive, Mesquite, NM

---

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

---

**Duplicate (1)** Duplicated Sample: 346992

QC Batch: 106945  
Prep Batch: 90553

Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20

Analyzed By: MC  
Prepared By: MC

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| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3230             | 3250          | mg/L  | 1        | 1   | 10        |

---

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 106945  
Prep Batch: 90553

Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20

Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 969           | 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 | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Total Dissolved Solids |   | 1 | 995           | 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: 107056  
Prep Batch: 90646

Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.8          | mg/L  | 1    | 25.0            | <0.678           | 99   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Chloride |   | 1 | 24.9          | mg/L  | 1    | 25.0            | <0.678           | 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: 107056  
Prep Batch: 90646

Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 5.00          | mg/L  | 1    | 5.00            | <0.0426          | 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<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|           |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Nitrate-N |   | 1 | 5.03   | mg/L  | 1    | 5.00            | <0.0426          | 101          | 90 - 110      | 1   | 20           |

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

### Laboratory Control Spike (LCS-1)

QC Batch: 107277  
Prep Batch: 90836

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 49.0   | mg/L  | 1    | 50.0            | <1.66            | 98   | 75.5 - 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 51.1   | mg/L  | 1    | 50.0            | <1.66            | 102  | 75.5 - 115    | 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: 346996

QC Batch: 107056  
Prep Batch: 90646

Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|          |   |   | Result | Units |      |                 |                  |      |               |
| Chloride |   | 1 | 2050   | mg/L  | 55.6 | 1390            | 570              | 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|          |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Chloride |   | 1 | 2040   | mg/L  | 55.6 | 1390            | 570              | 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: 346996

QC Batch: 107056  
Prep Batch: 90646

Date Analyzed: 2013-11-20  
QC Preparation: 2013-11-20

Analyzed By: JR  
Prepared By: JR



| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|
| Nitrate-N |   | 1 | 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: 346995

QC Batch: 107277  
Prep Batch: 90836

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.9         | mg/L  | 1    | 50.0            | 4.2              | 99   | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|------------|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 54.6          | mg/L  | 1    | 50.0            | 4.2              | 101           | 41.1 - 118 | 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: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.4                   | 98                          | 90 - 110                      | 2013-11-20       |

### Standard (CCV-1)

QC Batch: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.92                   | 98                          | 90 - 110                      | 2013-11-20       |

### Standard (CCV-2)

QC Batch: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-20       |

### Standard (CCV-2)

QC Batch: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.92                   | 98                          | 90 - 110                      | 2013-11-20       |

**Standard (CCV-3)**

QC Batch: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.6                   | 98                          | 90 - 110                      | 2013-11-20       |

**Standard (CCV-3)**

QC Batch: 107056

Date Analyzed: 2013-11-20

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.95                   | 99                          | 90 - 110                      | 2013-11-20       |

**Standard (ICV-1)**

QC Batch: 107277

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 5.04                   | 101                         | 85 - 115                      | 2013-12-03       |

**Standard (CCV-1)**

QC Batch: 107277

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-03       |

---

## Limits of Detection (LOD)

| Test          | Method   | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|----------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0  | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0  | water  | Dionex IC  | Nitrate-N                   | 0.126           | Pass |
| TDS           | SM 2540C | water  | N/A        | Total Dissolved Solids      | 0.00            | -    |
| TKN           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00            | Pass |



---

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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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(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 5, 2013

Work Order: 13112033



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

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 347131 | 74-2        | water  | 2013-11-20 | 09:01      | 2013-11-20    |
| 347132 | 74-3        | water  | 2013-11-20 | 08:22      | 2013-11-20    |
| 347133 | 74 Lagoon   | water  | 2013-11-20 | 09:15      | 2013-11-20    |

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 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  
Dr. Michael Abel, Project Manager

# Report Contents

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## Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2013-11-20 and assigned to work order 13112033. Samples for work order 13112033 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  | 90648      | 2013-11-21 at 23:55 | 107057   | 2013-11-21 at 23:55 |
| NO3 (IC)      | E 300.0  | 90648      | 2013-11-21 at 23:55 | 107057   | 2013-11-21 at 23:55 |
| TDS           | SM 2540C | 90584      | 2013-11-21 at 13:50 | 106982   | 2013-11-21 at 13:50 |
| TKN           | E 351.3  | 90836      | 2013-12-03 at 13:00 | 107277   | 2013-12-03 at 17:30 |

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 13112033 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: 347131 - 74-2**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>625</b>      | <b>625</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347131 - 74-2**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>28.8</b>     | <b>28.8</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347131 - 74-2**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106982 Date Analyzed: 2013-11-21 Analyzed By: MC  
 Prep Batch: 90584 Sample Preparation: 2013-11-21 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>2340</b>     | <b>2340</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347131 - 74-2**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107277 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90836 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347132 - 74-3**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107057                              Date Analyzed: 2013-11-21                      Analyzed By: JR  
 Prep Batch: 90648                              Sample Preparation: 2013-11-21                      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1200</b>  | <b>1200</b>  | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347132 - 74-3**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                              Prep Method: N/A  
 QC Batch: 107057                              Date Analyzed: 2013-11-21                              Analyzed By: JR  
 Prep Batch: 90648                              Sample Preparation: 2013-11-21                              Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>10.7</b>  | <b>10.7</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347132 - 74-3**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                              Prep Method: N/A  
 QC Batch: 106982                              Date Analyzed: 2013-11-21                              Analyzed By: MC  
 Prep Batch: 90584                              Sample Preparation: 2013-11-21                              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 | <b>4070</b>  | <b>4070</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347132 - 74-3**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107277 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90836 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347133 - 74 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>343</b>   | <b>343</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347133 - 74 Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | J | 1 | <b>1.09</b>  | <2.50        | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347133 - 74 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106982 Date Analyzed: 2013-11-21 Analyzed By: MC  
 Prep Batch: 90584 Sample Preparation: 2013-11-21 Prepared By: MC

*continued . . .*



sample 347133 continued ...

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1660</b>            | <b>1660</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347133 - 74 Lagoon**

Laboratory: Lubbock  
Analysis: TKN  
QC Batch: 107277  
Prep Batch: 90836

Analytical Method: E 351.3  
Date Analyzed: 2013-12-03  
Sample Preparation: 2013-12-03

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

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <b>19.6</b>            | <b>19.6</b>            | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

## Method Blanks

### Method Blank (1)

QC Batch: 106982  
Prep Batch: 90584Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107057  
Prep Batch: 90648Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107057  
Prep Batch: 90648Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107277  
Prep Batch: 90836Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03Analyzed By: SAS  
Prepared By: SAS

Report Date: December 5, 2013

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| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

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**Duplicate (1)** Duplicated Sample: 347133

QC Batch: 106982  
Prep Batch: 90584

Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21

Analyzed By: MC  
Prepared By: MC

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| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 1640             | 1660          | mg/L  | 1        | 1   | 10        |

---

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 106982  
Prep Batch: 90584

Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21

Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 984           | mg/L  | 1    | 1000            | <2.50            | 98   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Total Dissolved Solids |   | 1 | 1000          | mg/L  | 1    | 1000            | <2.50            | 100           | 90 - 110 | 2            | 10 |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107057  
Prep Batch: 90648

Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 26.0          | mg/L  | 1    | 25.0            | <0.678           | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Chloride |   | 1 | 25.9          | mg/L  | 1    | 25.0            | <0.678           | 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: 107057  
Prep Batch: 90648

Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 5.23          | mg/L  | 1    | 5.00            | <0.0426          | 105  | 90 - 110      |

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





| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 323          | mg/L  | 55.6 | 278             | 28.8             | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 324           | mg/L  | 55.6 | 278             | 28.8             | 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: 346995

QC Batch: 107277  
Prep Batch: 90836

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.9         | mg/L  | 1    | 50.0            | 4.2              | 99   | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 54.6          | mg/L  | 1    | 50.0            | 4.2              | 101  | 41.1 - 118    | 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: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.6                   | 98                          | 90 - 110                      | 2013-11-21       |

### Standard (CCV-1)

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.96                   | 99                          | 90 - 110                      | 2013-11-21       |

### Standard (CCV-2)

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.9                   | 100                         | 90 - 110                      | 2013-11-21       |

### Standard (CCV-2)

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-21       |

**Standard (CCV-3)**

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-21       |

**Standard (CCV-3)**

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-21       |

**Standard (CCV-4)**

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-21       |

**Standard (CCV-4)**

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-21       |

**Standard (ICV-1)**

QC Batch: 107277

Date Analyzed: 2013-12-03

Analyzed By: SAS



Report Date: December 5, 2013

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| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 5.04                   | 101                         | 85 - 115                      | 2013-12-03       |

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**Standard (CCV-1)**

QC Batch: 107277

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-03       |

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## Limits of Detection (LOD)

| Test          | Method   | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|----------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0  | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0  | water  | Dionex IC  | Nitrate-N                   | 0.126           | Pass |
| TDS           | SM 2540C | water  | N/A        | Total Dissolved Solids      | 0.00            | -    |
| TKN           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00            | Pass |

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | Lubbock             |

## Standard Flags

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

## Attachments

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

Company Name: **1312033**  
LAB Order ID # **1312033**

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

Contact Person: **Victor Ayala**

Invoice to (if different from above):  
**Buena Vista Dairy #2, P.O. Box 346, Mesquite, NM 88048**  
Project #: **Fernie 575-233-4646**

Project Location (including state):  
**Buena Vista Dairy #2, 16910 Stern Drive, Mesquite, NM**  
Project Name: **Buena Vista Dairy #2**  
Sampler Signature:

| LAB #  | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | SAMPLING |      |          |      |
|--------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|------|----------|------|
|        |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE | DATE     | TIME |
| 347131 | 74-2       | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/20/13 | 9:01 |
| ↓ 2    | 74-2       | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/20/13 | 9:01 |
| 347132 | 74-3       | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/20/13 | 8:22 |
| ↓ 2    | 74-3       | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/20/13 | 8:22 |
| 347133 | 74 Lagoon  | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/20/13 | 9:15 |
| ↓ 2    | 74 Lagoon  | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/20/13 | 9:15 |

ANALYSIS REQUEST

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

Relinquished By: *[Signature]* Date: 11/20/13 Time: 15:06  
 Relinquished By: *[Signature]* Date: 11/20/13 Time: 16:35  
 Received at Laboratory By: *[Signature]* Date: 11/20/13 Time: 15:08  
 Received at Laboratory By: *[Signature]* Date: 11/20/13 Time: 15:08

Remarks: **C1, UO3, TDS**  
**RS: 48590240**  
**380A**  
 Dry Weight Basis Required  
 TRRP Report Required





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

(Corrected Report)

John DeRuyter  
 Mountain View Dairy  
 13090 Stern Drive  
 P.O. Box 345  
 Mesquite, NM, 88048

Report Date: December 6, 2013

Work Order: 13111426



DP: 70  
 Project Location: 13090 Stern Dr., Mesquite, NM  
 Project Name: Mountain View Dairy

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

| Sample | Description          | Matrix | Date Taken | Time Taken | Date Received |
|--------|----------------------|--------|------------|------------|---------------|
| 346615 | 70-01                | water  | 2013-11-14 | 09:15      | 2013-11-14    |
| 346616 | 70-02                | water  | 2013-11-14 | 09:52      | 2013-11-14    |
| 346617 | 70-03                | water  | 2013-11-14 | 08:00      | 2013-11-14    |
| 346618 | 70-04                | water  | 2013-11-14 | 11:31      | 2013-11-14    |
| 346619 | 70-Lagoon            | water  | 2013-11-14 | 09:59      | 2013-11-14    |
| 346620 | N.Storm water Lagoon | water  | 2013-11-14 | 10:19      | 2013-11-14    |

### Report Corrections (Work Order 13111426)

- 12/6/13: Reran TKN on sample 346615.

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.*

A handwritten signature in black ink that reads "Michael Abel". The signature is written in a cursive, slightly slanted style.

---

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

# Report Contents

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## Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2013-11-14 and assigned to work order 13111426. Samples for work order 13111426 were received intact at a temperature of 2 C.

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

| Test          | Method       | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|---------------|--------------|---------------|---------------------|-------------|---------------------|
| Chloride (IC) | E 300.0      | 90519         | 2013-11-18 at 13:35 | 106898      | 2013-11-18 at 13:35 |
| NO3 (IC)      | E 300.0      | 90519         | 2013-11-18 at 13:35 | 106898      | 2013-11-18 at 13:35 |
| SO4 (IC)      | E 300.0      | 90519         | 2013-11-18 at 13:35 | 106898      | 2013-11-18 at 13:35 |
| Sulfide       | SM 4500-S2 D | 90481         | 2013-11-18 at 10:00 | 106850      | 2013-11-18 at 13:00 |
| TDS           | SM 2540C     | 90511         | 2013-11-18 at 11:30 | 106894      | 2013-11-18 at 11:30 |
| TKN           | E 351.3      | 90689         | 2013-11-26 at 12:15 | 107102      | 2013-11-26 at 18:00 |
| TKN           | E 351.3      | 90906         | 2013-12-03 at 13:00 | 107370      | 2013-12-03 at 17:30 |

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 13111426 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: 346615 - 70-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>510</b>             | <b>510</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346615 - 70-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C   | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|-----|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | 1 | H 1 | <b>22.3</b>            | <b>22.3</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346615 - 70-01**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F  | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|----|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Sulfate   | Qs | 1 | <b>403</b>             | <b>403</b>             | <1.10                     | mg/L  | 50       | 1.10 | 2.5                 | 0.0219              |

**Sample: 346615 - 70-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106894 Date Analyzed: 2013-11-18 Analyzed By: MC  
 Prep Batch: 90511 Sample Preparation: 2013-11-18 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2620</b>            | <b>2620</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346615 - 70-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107370 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90906 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346616 - 70-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>837</b>             | <b>837</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346616 - 70-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C   | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|-----|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | 2 | H 1 | <b>36.1</b>            | <b>36.1</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 346616 - 70-02**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F  | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|----|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |    |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Sulfate   | Qs | 1 | <b>478</b>      | <b>478</b>      | <0.219          | mg/L  | 10       | 0.219 | 2.5          | 0.0219       |

**Sample: 346616 - 70-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106894 Date Analyzed: 2013-11-18 Analyzed By: MC  
 Prep Batch: 90511 Sample Preparation: 2013-11-18 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3200</b>     | <b>3200</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 346616 - 70-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107102 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90689 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>4.90</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346617 - 70-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

*continued ...*



sample 346617 continued ...

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>2680</b>            | <b>2680</b>            | <67.8                     | mg/L  | 100      | 67.8 | 2.5                 | 0.678               |

**Sample: 346617 - 70-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C   | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|-----|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | 3 | H 1 | <b>45.4</b>            | <b>45.4</b>            | <0.426                    | mg/L  | 10       | 0.426 | 0.5                 | 0.0426              |

**Sample: 346617 - 70-03**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C    | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|------|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Sulfate   |   | Qs 1 | <b>1320</b>            | <b>1320</b>            | <1.10                     | mg/L  | 50       | 1.10 | 2.5                 | 0.0219              |

**Sample: 346617 - 70-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106894 Date Analyzed: 2013-11-18 Analyzed By: MC  
 Prep Batch: 90511 Sample Preparation: 2013-11-18 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>6800</b>            | <b>6800</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346617 - 70-03**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107102 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90689 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 346618 - 70-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>649</b>      | <b>649</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 346618 - 70-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C   | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|-----|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |     | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | 4 | H 1 | <b>21.0</b>     | <b>21.0</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 346618 - 70-04**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F  | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|----|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Sulfate   | Qs | 1 | <b>558</b>             | <b>558</b>             | <1.10                     | mg/L  | 50       | 1.10 | 2.5                 | 0.0219              |

**Sample: 346618 - 70-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106894 Date Analyzed: 2013-11-18 Analyzed By: MC  
 Prep Batch: 90511 Sample Preparation: 2013-11-18 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2630</b>            | <b>2630</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346618 - 70-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107102 Date Analyzed: 2013-11-26 Analyzed By: SAS  
 Prep Batch: 90689 Sample Preparation: 2013-11-26 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346619 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>2140</b>            | <b>2140</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346619 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F            | C   | SDL             | MQL             | Method          | Units  | Dilution | SDL | MQL          | MDL          |        |
|-----------|--------------|-----|-----------------|-----------------|-----------------|--------|----------|-----|--------------|--------------|--------|
|           |              |     | Based<br>Result | Based<br>Result | Blank<br>Result |        |          |     | (Unadjusted) | (Unadjusted) |        |
| Nitrate-N | <sup>5</sup> | H,U | 1               | <0.426          | <5.00           | <0.426 | mg/L     | 10  | 0.426        | 0.5          | 0.0426 |

**Sample: 346619 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
 Prep Batch: 90519 Sample Preparation: 2013-11-18 Prepared By: JR

| Parameter | F  | C | SDL             | MQL             | Method          | Units | Dilution | SDL | MQL          | MDL          |        |
|-----------|----|---|-----------------|-----------------|-----------------|-------|----------|-----|--------------|--------------|--------|
|           |    |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |     | (Unadjusted) | (Unadjusted) |        |
| Sulfate   | Qs | 1 |                 | <b>547</b>      | <b>547</b>      | <1.10 | mg/L     | 50  | 1.10         | 2.5          | 0.0219 |

**Sample: 346619 - 70-Lagoon**

Laboratory: Lubbock  
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A  
 QC Batch: 106850 Date Analyzed: 2013-11-18 Analyzed By: SAS  
 Prep Batch: 90481 Sample Preparation: 2013-11-18 Prepared By: SAS

Comment: Please Report as Sulfur & add SO4 Result

| Parameter | F   | C | SDL             | MQL             | Method          | Units  | Dilution | SDL | MQL          | MDL          |        |
|-----------|-----|---|-----------------|-----------------|-----------------|--------|----------|-----|--------------|--------------|--------|
|           |     |   | Based<br>Result | Based<br>Result | Blank<br>Result |        |          |     | (Unadjusted) | (Unadjusted) |        |
| Sulfide   | H,J |   |                 | <b>1.91</b>     | <2.50           | <0.462 | mg/L     | 25  | 0.462        | 0.1          | 0.0185 |

**Sample: 346619 - 70-Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 106894 Date Analyzed: 2013-11-18 Analyzed By: MC  
 Prep Batch: 90511 Sample Preparation: 2013-11-18 Prepared By: MC

*continued ...*



*sample 346619 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>9370</b>            | <b>9370</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 346619 - 70-Lagoon**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107102

Prep Batch: 90689

Analytical Method: E 351.3

Date Analyzed: 2013-11-26

Sample Preparation: 2013-11-26

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <b>101</b>             | <b>101</b>             | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 346620 - N.Storm water Lagoon**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 106898

Prep Batch: 90519

Analytical Method: E 300.0

Date Analyzed: 2013-11-18

Sample Preparation: 2013-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1500</b>            | <b>1500</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 346620 - N.Storm water Lagoon**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 106898

Prep Batch: 90519

Analytical Method: E 300.0

Date Analyzed: 2013-11-18

Sample Preparation: 2013-11-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR



Laboratory: Lubbock

Analysis: TKN

QC Batch: 107102

Prep Batch: 90689

Analytical Method: E 351.3

Date Analyzed: 2013-11-26

Sample Preparation: 2013-11-26

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL        | SQL        | Method | Units | Dilution | SDL          | SQL          | MDL  |
|-----------------------------|---|---|------------|------------|--------|-------|----------|--------------|--------------|------|
|                             |   |   | Based      | Based      | Blank  |       |          | (Unadjusted) | (Unadjusted) |      |
| Total Kjeldahl Nitrogen - N |   | 2 | <b>398</b> | <b>398</b> | <1.66  | mg/L  | 1        | 1.66         | 10           | 1.66 |

## Method Blanks

### Method Blank (1)

QC Batch: 106850  
Prep Batch: 90481Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: SAS  
Prepared By: SAS

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Sulfide   |   |   | <0.0185 | mg/L  | 0.0185           |

### Method Blank (1)

QC Batch: 106894  
Prep Batch: 90511Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 106898  
Prep Batch: 90519Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 106898  
Prep Batch: 90519Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR



| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

**Method Blank (1)**QC Batch: 106898  
Prep Batch: 90519Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Sulfate   |   | 1 | <0.0219 | mg/L  | 0.0219           |

**Method Blank (1)**QC Batch: 107102  
Prep Batch: 90689Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Method Blank (1)**QC Batch: 107370  
Prep Batch: 90906Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Duplicate (1)** Duplicated Sample: 346615QC Batch: 106894  
Prep Batch: 90511Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18Analyzed By: MC  
Prepared By: MC

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| Param                  | F | C | Duplicate<br>Result | Sample<br>Result | Units | Dilution | RPD | RPD<br>Limit |
|------------------------|---|---|---------------------|------------------|-------|----------|-----|--------------|
| Total Dissolved Solids |   | 1 | 2590                | 2620             | mg/L  | 1        | 1   | 10           |

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| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 51.1   | mg/L  | 1    | 50.0            | <1.66            | 102  | 75.5 - 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 49.7   | mg/L  | 1    | 50.0            | <1.66            | 99   | 75.5 - 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: 107370  
Prep Batch: 90906

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 50.4   | mg/L  | 1    | 50.0            | <1.66            | 101  | 75.5 - 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 51.1   | mg/L  | 1    | 50.0            | <1.66            | 102  | 75.5 - 115    | 1   | 20           |

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

### Matrix Spike (MS-1) Spiked Sample: 345464

QC Batch: 106850  
Prep Batch: 90481

Date Analyzed: 2013-11-18  
QC Preparation: 2013-11-18

Analyzed By: SAS  
Prepared By: SAS

| Param   | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|         |   |   | Result | Units |      |                 |                  |      |               |
| Sulfide |   | H | 0.385  | mg/L  | 1    | 0.400           | <0.0185          | 96   | 10 - 154      |

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

| Param   | F | C | MSD    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|         |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Sulfide |   | H | 0.392  | mg/L  | 1    | 0.400           | <0.0185          | 98   | 10 - 154      | 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: 346615

QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
Prep Batch: 90519 QC Preparation: 2013-11-18 Prepared By: JR

| Param    | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 2140         | mg/L  | 55.6 | 1390            | 510              | 117  | 80 - 120      |

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

| Param    | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 2150          | mg/L  | 55.6 | 1390            | 510              | 118  | 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: 346615

QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
Prep Batch: 90519 QC Preparation: 2013-11-18 Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 303          | mg/L  | 55.6 | 278             | 22.3             | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 305           | mg/L  | 55.6 | 278             | 22.3             | 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: 346615

QC Batch: 106898 Date Analyzed: 2013-11-18 Analyzed By: JR  
Prep Batch: 90519 QC Preparation: 2013-11-18 Prepared By: JR

| Param   | F  | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|---------|----|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Sulfate | Qs | 1 | 1940         | mg/L  | 55.6 | 1390            | 403              | 110  | 90 - 110      |

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

| Param   | F  | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|---------|----|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Sulfate | Qs | 1 | 1950          | mg/L  | 55.6 | 1390            | 403              | 111  | 90 - 110      | 0   | 20           |

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

**Matrix Spike (MS-1)** Spiked Sample: 346522

QC Batch: 107102  
Prep Batch: 90689

Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS     |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|
|                             |   |   | Result | Units |      |              |               |      |            |
| Total Kjeldahl Nitrogen - N |   | 2 | 53.9   | mg/L  | 1    | 50.0         | 4.2           | 99   | 41.1 - 118 |

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

| Param                       | F | C | MSD    |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
|                             |   |   | Result | Units |      |              |               |      |            |     |           |
| Total Kjeldahl Nitrogen - N |   | 2 | 53.2   | mg/L  | 1    | 50.0         | 4.2           | 98   | 41.1 - 118 | 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: 346615

QC Batch: 107370  
Prep Batch: 90906

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS     |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|
|                             |   |   | Result | Units |      |              |               |      |            |
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5   | mg/L  | 1    | 50.0         | 3.5           | 98   | 41.1 - 118 |

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

| Param                       | F | C | MSD    |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
|                             |   |   | Result | Units |      |              |               |      |            |     |           |
| Total Kjeldahl Nitrogen - N |   | 2 | 53.2   | mg/L  | 1    | 50.0         | 3.5           | 99   | 41.1 - 118 | 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: 106850

Date Analyzed: 2013-11-18

Analyzed By: SAS

| Param   | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfide |   |   | mg/L  | 0.400                 | 0.391                  | 98                          | 85 - 115                      | 2013-11-18       |

### Standard (CCV-1)

QC Batch: 106850

Date Analyzed: 2013-11-18

Analyzed By: SAS

| Param   | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfide |   |   | mg/L  | 0.400                 | 0.387                  | 97                          | 85 - 115                      | 2013-11-18       |

### Standard (CCV-1)

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.6                   | 98                          | 90 - 110                      | 2013-11-18       |

### Standard (CCV-1)

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.94                   | 99                          | 90 - 110                      | 2013-11-18       |



**Standard (CCV-1)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param   | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-2)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.9                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-2)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-2)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param   | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate |   | 1 | mg/L  | 25.0                  | 25.2                   | 101                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-3)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-18       |

**Standard (CCV-3)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (CCV-3)**

QC Batch: 106898

Date Analyzed: 2013-11-18

Analyzed By: JR

| Param   | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|---------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Sulfate |   | 1 | mg/L  | 25.0                  | 25.1                   | 100                         | 90 - 110                      | 2013-11-18       |

**Standard (ICV-1)**

QC Batch: 107102

Date Analyzed: 2013-11-26

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-11-26       |

**Standard (CCV-1)**

QC Batch: 107102

Date Analyzed: 2013-11-26

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-11-26       |

**Standard (ICV-1)**

QC Batch: 107370

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-03       |

**Standard (CCV-1)**

QC Batch: 107370

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-03       |

---

## 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                   | 0.126        | Pass |
| SO4 (IC)      | E 300.0      | water  | Dionex IC         | Sulfate                     | 0.0500       | Pass |
| Sulfide       | SM 4500-S2 D | water  | Spectrophotometer | Sulfide                     | 0.0500       | Pass |
| TDS           | SM 2540C     | water  | N/A               | Total Dissolved Solids      | 0.00         | -    |
| TKN           | E 351.3      | water  | N/A               | Total Kjeldahl Nitrogen - N | 5.00         | Pass |



# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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   |

## Result Comments

- 1 Sample analyzed for Nitrate was out of hold due to equipment failu.
- 2 Sample analyzed for Nitrate was out of hold due to equipment failu.

- 3 Sample analyzed for Nitrate was out of hold due to equipment failu.
- 4 Sample analyzed for Nitrate was out of hold due to equipment failu.
- 5 Sample analyzed for Nitrate was out of hold due to equipment failure.
- 6 Sample analyzed for Nitrate was out of hold due to equipment failu.

## **Attachments**

The scanned attachments will follow this page.

Please note, each attachment may consist of more than one page.

155 McClintock, Ste. H, E  
Paso, TX 79932  
Tel (815) 585-3443  
Fax (815) 585-4844

# 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

**Project Name:** Mountain View Dairy  
**Project Location (including state):** Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048  
**Sampler Signature:** *John DeRuyter*

| LAB #<br>(LAB USE ONLY) | Field Code              | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | Sampling |          |       |
|-------------------------|-------------------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|----------|-------|
|                         |                         |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE     | DATE  |
| 346415                  | 70-01                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:15  |
| 346415-2                | 70-01                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:15  |
| 346416                  | 70-02                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:52  |
| 1-2                     | 70-02                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:52  |
| 346417                  | 70-03                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:52  |
| 1-2                     | 70-03                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 8:00  |
| 346418-1                | 70-04                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 11:31 |
| 1-2                     | 70-04                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 11:31 |
| 346419-1                | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:59  |
| 1-2                     | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:59  |
| 1-3                     | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 9:59  |
| 346420-1                | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 1-2                     | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 346421                  | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 1-2                     | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 346422                  | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 1-2                     | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |
| 1-3                     | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      | X        | 11/14/13 | 10:19 |

**ANALYSIS REQUEST**

|  |   |
|--|---|
| MTBE 8021B/802                                   |   |
| BTX 8021B/802                                    |   |
| 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 |
| Sulfate EPA Method 300.0                         | X |
| Total Sulfur                                     |   |
| Turn Around Time                                 |   |
| Hold   |   |

Lab Use Only  
 Initialed  Y  N  
 Headspace  Y  N  
 Temp'd  2  3  18  10  
 Log-in Review  *[Signature]*

Remarks: South Storm Water Lagoon  
 15 Day NTA Sample  
 Dry Weight Basis Required  
 TRRP Report Required *[Signature]*

Relinquished By: *[Signature]* Date: 11/14/13 Time: 16:30

Received By: *[Signature]* Date: 11/14/13 Time: 13:20

Relinquished By: *[Signature]* Date: 11/14/13 Time: 16:30

Received at Laboratory By: *[Signature]* Date: 11/14/13 Time: 13:20

1311426

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

Phone #: 915-859-8150  
 Cell #:   
 Fax #:   
 E-mail: [vayala@dhump.com](mailto:vayala@dhump.com)

Project Name: Mountain View Dairy  
 Sampler Signature: *John DeRuyter*

| LAB #<br>(LAB USE ONLY) | Field Code              | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | Sampling |      |          |       |
|-------------------------|-------------------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|------|----------|-------|
|                         |                         |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE | DATE     | TIME  |
| 346615-1                | 70-01                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 9:25  |
| 346615-2                | 70-01                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 9:15  |
| 346616-1                | 70-02                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 9:52  |
| 346617-1                | 70-02                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 9:52  |
| 346617-1                | 70-03                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 8:00  |
| 346618-1                | 70-03                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 8:00  |
| 346618-1                | 70-04                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 11:31 |
| 346619-1                | 70-04                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 11:31 |
| 346619-1                | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 9:59  |
| 346619-1                | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 9:59  |
| 346620-1                | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 9:59  |
| 346620-1                | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 10:19 |
| 346620-1                | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 10:19 |
| 346620-3                | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 10:19 |
| 346620-3                | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 10:19 |
| 346620-3                | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 10:19 |
| 346620-3                | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13 | 10:19 |

| LAB #<br>(LAB USE ONLY) | Field Code              | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | Sampling |      | TPH 418.1 / TX1005 | BTEX 8021B/602 | MTBE 8021B/602 |      |
|-------------------------|-------------------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|------|--------------------|----------------|----------------|------|
|                         |                         |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE |                    |                |                | DATE |
| 346615-1                | 70-01                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 9:25           |                |      |
| 346615-2                | 70-01                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 9:15           |                |      |
| 346616-1                | 70-02                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 9:52           |                |      |
| 346617-1                | 70-02                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 9:52           |                |      |
| 346617-1                | 70-03                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 8:00           |                |      |
| 346618-1                | 70-03                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 8:00           |                |      |
| 346618-1                | 70-04                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 11:31          |                |      |
| 346619-1                | 70-04                   | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 11:31          |                |      |
| 346619-1                | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 9:59           |                |      |
| 346619-1                | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 9:59           |                |      |
| 346619-1                | 70 Lagoon               | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 9:59           |                |      |
| 346620-1                | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 10:19          |                |      |
| 346620-1                | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 10:19          |                |      |
| 346620-3                | North Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 10:19          |                |      |
| 346620-3                | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 10:19          |                |      |
| 346620-3                | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 10:19          |                |      |
| 346620-3                | South Stormwater Lagoon | 1            | 250 mL        | X      |      |     |        | X                   |                  |                                |      |          |      | 11/14/13           | 10:19          |                |      |

ANALYSIS REQUEST

PAH 8270 (Low Level Analysis)

PAH 8270C

TX 1005 Extended (C35)

TPH 418.1 / TX1005

BTEX 8021B/602

MTBE 8021B/602

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

Nitrates EPA 300

Total Kjeldahl 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: South Storm Water Lagoon  
 15 Day NO sample  
 25 1859 0237  
 238  
 Dry Weight Basis Required  
 TRRP Report Required  
 Certify

Lab Use Only  
 Intact  Y /  N  
 Headspace Y /  N  
 Temperature 2/10  
 Log-in Review

Relinquished By: *John DeRuyter* Date: 11/14/13 Time: 1630  
 Received at Laboratory By: *Sherry Ward* Date: 11/15/13 Time: 9:15  
 Relinquished By: *John DeRuyter* Date: 11/14/13 Time: 1320  
 Received By: *John DeRuyter* Date: 11/14/13 Time: 1320





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 11, 2013

Work Order: 13112520



DP: 257  
 Project Location: 17900 S. Stern Dr., Mesquite, NM  
 Project Name: Sunset Dairy

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 347453 | 257-01      | water  | 2013-11-25 | 11:15      | 2013-11-25    |
| 347454 | 257-02      | water  | 2013-11-25 | 10:40      | 2013-11-25    |
| 347455 | 257-03      | water  | 2013-11-25 | 12:33      | 2013-11-25    |
| 347456 | 257/260-01  | water  | 2013-11-25 | 12:08      | 2013-11-25    |
| 347457 | 257 Lagoon  | water  | 2013-11-25 | 10:46      | 2013-11-25    |

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 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

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

*Michael Abel*

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

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## Case Narrative

Samples for project Sunset Dairy were received by TraceAnalysis, Inc. on 2013-11-25 and assigned to work order 13112520. Samples for work order 13112520 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         | 90838      | 2013-11-26 at 18:56 | 107278   | 2013-11-26 at 18:56 |
| NO3 (IC)      | E 300.0         | 90838      | 2013-11-26 at 18:56 | 107278   | 2013-11-26 at 18:56 |
| TDS           | SM 2540C        | 90730      | 2013-11-27 at 14:30 | 107162   | 2013-11-27 at 14:30 |
| TKN           | SM 4500-NH3 B,C | 90993      | 2013-12-09 at 11:30 | 107470   | 2013-12-09 at 17:30 |

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 13112520 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: 347453 - 257-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>726</b>      | <b>726</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347453 - 257-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>42.4</b>     | <b>42.4</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347453 - 257-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107162 Date Analyzed: 2013-11-27 Analyzed By: MC  
 Prep Batch: 90730 Sample Preparation: 2013-11-27 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3090</b>     | <b>3090</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347453 - 257-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107470 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90993 Sample Preparation: 2013-12-09 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347454 - 257-02**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107278                              Date Analyzed: 2013-11-26                      Analyzed By: JR  
 Prep Batch: 90838                              Sample Preparation: 2013-11-26                      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>529</b>   | <b>529</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347454 - 257-02**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107278                              Date Analyzed: 2013-11-26                      Analyzed By: JR  
 Prep Batch: 90838                              Sample Preparation: 2013-11-26                      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>11.1</b>  | <b>11.1</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347454 - 257-02**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 107162                              Date Analyzed: 2013-11-27                      Analyzed By: MC  
 Prep Batch: 90730                              Sample Preparation: 2013-11-27                      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 | <b>2070</b>  | <b>2070</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347454 - 257-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107470 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90993 Sample Preparation: 2013-12-09 Prepared By: SAS

| Parameter                   | F | C | SDL         | SQL   | Method | Units | Dilution | SDL          | SQL          | MDL  |
|-----------------------------|---|---|-------------|-------|--------|-------|----------|--------------|--------------|------|
|                             |   |   | Based       | Based | Blank  |       |          | (Unadjusted) | (Unadjusted) |      |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b> | <10.0 | <1.66  | mg/L  | 1        | 1.66         | 10           | 1.66 |

**Sample: 347455 - 257-03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL        | SQL        | Method | Units | Dilution | SDL          | SQL          | MDL   |
|-----------|---|---|------------|------------|--------|-------|----------|--------------|--------------|-------|
|           |   |   | Based      | Based      | Blank  |       |          | (Unadjusted) | (Unadjusted) |       |
| Chloride  |   | 1 | <b>494</b> | <b>494</b> | <33.9  | mg/L  | 50       | 33.9         | 2.5          | 0.678 |

**Sample: 347455 - 257-03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL         | SQL   | Method | Units | Dilution | SDL          | SQL          | MDL    |
|-----------|---|---|-------------|-------|--------|-------|----------|--------------|--------------|--------|
|           |   |   | Based       | Based | Blank  |       |          | (Unadjusted) | (Unadjusted) |        |
| Nitrate-N | J | 1 | <b>2.03</b> | <2.50 | <0.213 | mg/L  | 5        | 0.213        | 0.5          | 0.0426 |

**Sample: 347455 - 257-03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107162 Date Analyzed: 2013-11-27 Analyzed By: MC  
 Prep Batch: 90730 Sample Preparation: 2013-11-27 Prepared By: MC

*continued . . .*

*sample 347455 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1900</b>            | <b>1900</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347455 - 257-03**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107470

Prep Batch: 90993

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-12-09

Sample Preparation: 2013-12-09

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>4.90</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 347456 - 257/260-01**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 107278

Prep Batch: 90838

Analytical Method: E 300.0

Date Analyzed: 2013-11-26

Sample Preparation: 2013-11-26

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>580</b>             | <b>580</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 347456 - 257/260-01**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 107278

Prep Batch: 90838

Analytical Method: E 300.0

Date Analyzed: 2013-11-26

Sample Preparation: 2013-11-26

Prep Method: N/A

Analyzed By: JR

Prepared By: JR



| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>3.30</b>            | <b>3.30</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 347456 - 257/260-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107162 Date Analyzed: 2013-11-27 Analyzed By: MC  
 Prep Batch: 90730 Sample Preparation: 2013-11-27 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2220</b>            | <b>2220</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347456 - 257/260-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107470 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90993 Sample Preparation: 2013-12-09 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>6.30</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 347457 - 257 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>699</b>             | <b>699</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 347457 - 257 Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | J | 1 | <b>1.71</b>     | <2.50           | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347457 - 257 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107162 Date Analyzed: 2013-11-27 Analyzed By: MC  
 Prep Batch: 90730 Sample Preparation: 2013-11-27 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>4280</b>     | <b>4280</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347457 - 257 Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107470 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90993 Sample Preparation: 2013-12-09 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N |   | 2 | <b>132</b>      | <b>132</b>      | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

## Method Blanks

### Method Blank (1)

QC Batch: 107162  
Prep Batch: 90730Date Analyzed: 2013-11-27  
QC Preparation: 2013-11-27Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | 1.35   | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107470  
Prep Batch: 90993Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Duplicate (1)** Duplicated Sample: 347453

QC Batch: 107162  
Prep Batch: 90730

Date Analyzed: 2013-11-27  
QC Preparation: 2013-11-27

Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3060             | 3090          | mg/L  | 1        | 1   | 10        |



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107162  
Prep Batch: 90730Date Analyzed: 2013-11-27  
QC Preparation: 2013-11-27Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 989           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 990           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      | 0   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 25.5          | mg/L  | 1    | 25.0            | <0.678           | 102  | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 25.4          | mg/L  | 1    | 25.0            | <0.678           | 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: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 5.14          | mg/L  | 1    | 5.00            | <0.0426          | 103  | 90 - 110      |

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



| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 288          | mg/L  | 55.6 | 278             | <2.37            | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|-----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Nitrate-N |   | 1 | 289           | mg/L  | 55.6 | 278             | <2.37            | 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: 347568

QC Batch: 107470  
Prep Batch: 90993

Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.1         | mg/L  | 1    | 50.0            | 2.1              | 98   | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|------------|--------------|----|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 2.1              | 101           | 58.1 - 115 | 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: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.5                   | 98                          | 90 - 110                      | 2013-11-26       |

### Standard (CCV-1)

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-11-26       |

### Standard (CCV-2)

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.6                   | 98                          | 90 - 110                      | 2013-11-26       |

### Standard (CCV-2)

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.01                   | 100                         | 90 - 110                      | 2013-11-26       |



**Standard (CCV-3)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-3)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.03                   | 101                         | 90 - 110                      | 2013-11-26       |

**Standard (CCV-4)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-4)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.05                   | 101                         | 90 - 110                      | 2013-11-26       |

**Standard (CCV-5)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-5)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.04                   | 101                         | 90 - 110                      | 2013-11-26       |

**Standard (ICV-1)**

QC Batch: 107470

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-09       |

**Standard (CCV-1)**

QC Batch: 107470

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-09       |

---

## 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                   | 0.126        | 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 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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.





87671 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1288  
Fax (806) 794-1288

# 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 #:   
Fax #:   
E-mail: **vayala@dhpump.com**

Invoice to (if different from above):  
**Sunsat Dairy, PO Box 10, Mesquite, NM 88048**  
Project #: **429548**  
Project Name: **Sunsat Dairy**  
Sampler Signature: *[Signature]*

Project Location (including state):  
**Sunsat Dairy, 1790**

Page **1** of **1**  
**CHAIN-OF-CUSTODY AND ANALYSIS REQUEST**  
LAB Order ID # **13/12520**

**ANALYSIS REQUEST**

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

| LAB #  | LAB USE ONLY | Field Code | # Containers | Volume/Amount | MATRIX |      |     | PRESERVATIVE METHOD |     |                  |                                | DATE | SAMPLING TIME |      |
|--------|--------------|------------|--------------|---------------|--------|------|-----|---------------------|-----|------------------|--------------------------------|------|---------------|------|
|        |              |            |              |               | WATER  | SOIL | AIR | SLUDGE              | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> |      |               | NaOH |
| 347953 | 257-01       |            | 1            |               | X      |      |     |                     |     | X                |                                |      | 11-15         |      |
| 1-2    | 257-01       |            | 1            |               | X      |      |     |                     |     | X                |                                |      | 11-15         |      |
| 54     | 257-02       |            | 1            |               | X      |      |     |                     |     | X                |                                |      | 10-14         |      |
| 1-2    | 257-02       |            | 1            |               | X      |      |     |                     |     | X                |                                |      | 10-14         |      |
| 55     | 257-03       |            | 1            |               | X      |      |     |                     |     | X                |                                |      | 12-33         |      |
| 1-2    | 257-03       |            | 1            |               | X      |      |     |                     |     | X                |                                |      | 12-33         |      |
| 56     | 257/260-01   |            | 1            |               | X      |      |     |                     |     | X                |                                |      | 12-08         |      |
| 1-2    | 257/260-01   |            | 1            |               | X      |      |     |                     |     | X                |                                |      | 12-08         |      |
| 57     | 257 Lagoon   |            | 1            |               | X      |      |     |                     |     | X                |                                |      | 10-16         |      |
| 1-2    | 257 Lagoon   |            | 1            |               | X      |      |     |                     |     | X                |                                |      | 10-16         |      |

Relinquished By: *[Signature]* Date: 11-25-13 11:15  
 Received By: *[Signature]* Date: 11-25-13 14:25  
 Relinquished By: *[Signature]* Date: 11-25-13 10:30  
 Received at Laboratory By: *[Signature]* Date: 11-25-13 14:25

Lab Use Only  
 Intact  Y  N  
 Headspace  Y  N  
 Temp **12.2**  **2/2**  
 Log-in Review  **11/25/13**

Remarks: **ICE**  
**TKN @ Lubbock**  
**NO<sub>3</sub>, (12,1) TPP @ E.P.**  
 Dry Weight Basis Required  
 TRRP Report Required

(10)

LAB Order ID # 13112520

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

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

Contact Person: Victor Ayala Fax #:

E-mail: vajala@dhump.com

Project Name: Sunset Dairy Ed DeRuyter 575-233-2029

Project #: 429548

Project Location (including state): Sunset Dairy, 1790 Sampler Signature: [Signature]

| LAB #        | Field Code        | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | SAMPLING |              |              |
|--------------|-------------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|--------------|--------------|
|              |                   |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE         | DATE         |
| <u>34745</u> | <u>257-01</u>     | <u>1</u>     |               | X      |      |     |        | X                   | X                | X                              |      |          | <u>11:15</u> | <u>11:15</u> |
| <u>1-2</u>   | <u>257-01</u>     | <u>1</u>     |               | X      |      |     |        | X                   | X                | X                              |      |          | <u>11:15</u> | <u>11:15</u> |
| <u>54</u>    | <u>257-02</u>     | <u>1</u>     |               | X      |      |     |        | X                   | X                | X                              |      |          | <u>10:40</u> | <u>10:40</u> |
| <u>1-2</u>   | <u>257-02</u>     | <u>1</u>     |               | X      |      |     |        | X                   | X                | X                              |      |          | <u>10:40</u> | <u>10:40</u> |
| <u>55</u>    | <u>257-03</u>     | <u>1</u>     |               | X      |      |     |        | X                   | X                | X                              |      |          | <u>12:33</u> | <u>12:33</u> |
| <u>1-2</u>   | <u>257-03</u>     | <u>1</u>     |               | X      |      |     |        | X                   | X                | X                              |      |          | <u>12:33</u> | <u>12:33</u> |
| <u>56</u>    | <u>257260-01</u>  | <u>1</u>     |               | X      |      |     |        | X                   | X                | X                              |      |          | <u>12:08</u> | <u>12:08</u> |
| <u>1-2</u>   | <u>257260-01</u>  | <u>1</u>     |               | X      |      |     |        | X                   | X                | X                              |      |          | <u>12:08</u> | <u>12:08</u> |
| <u>57</u>    | <u>257 Lagoon</u> | <u>1</u>     |               | X      |      |     |        | X                   | X                | X                              |      |          | <u>10:46</u> | <u>10:46</u> |
| <u>1-2</u>   | <u>257 Lagoon</u> | <u>1</u>     |               | X      |      |     |        | X                   | X                | X                              |      |          | <u>10:46</u> | <u>10:46</u> |

Relinquished By: July Date: 11-25-13 Time: 11:25

Relinquished By: Denny de Haro Date: 11-25-13 Time: 16:30

Received By: Denny de Haro Date: 11-25-13 Time: 14:25

Received at Laboratory By: Brenda JA Date: 11/26/13 Time: 2:00 PM

Lab Use Only  
 Intac (Y) / N  
 Headspace Y / N  
 Temp 12.2 / 21.2  
 Log-in Review [Signature]

Remarks: ICE  
TKN @ Lubbock  
NO<sub>3</sub>, Cl<sub>2</sub>, TP<sub>2</sub> @ E.P.  
Dry Weight Basis Required  
TRRP Report Required



6701 Aberdeen Avenue, Suite 9      Lubbock, Texas 79424      800-378-1296      806-794-1296      FAX 806-794-1298  
 200 East Sunset Road, Suite E      El Paso, Texas 79922      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

George Segura  
 Big Sky Dairy  
 17800 Stern Drive  
 P.O. Box 10  
 Mesquite, NM, 88048

Report Date: December 11, 2013

Work Order: 13112131



DP: 833  
 Project Location: 17800 Stern Drive, Mesquite, NM 88048  
 Project Name: Big Sky Dairy

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 347231 | 833-6       | water  | 2013-11-21 | 14:35      | 2013-11-21    |
| 347232 | 833-7       | water  | 2013-11-21 | 09:08      | 2013-11-21    |
| 347233 | 833-8       | water  | 2013-11-21 | 13:38      | 2013-11-21    |

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

This report consists of a total of 16 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

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

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

# Report Contents

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| QC Batch 107143 - Method Blank (1) . . . . . | 8         |
| QC Batch 107143 - Method Blank (1) . . . . . | 8         |
| QC Batch 107467 - Method Blank (1) . . . . . | 8         |
| QC Batch 107099 - Duplicate (1) . . . . .    | 9         |
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---

## Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2013-11-21 and assigned to work order 13112131. Samples for work order 13112131 were received intact at a temperature of 5 C.

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

| Test          | Method   | Prep Batch | Prep Date           | QC Batch | Analysis Date       |
|---------------|----------|------------|---------------------|----------|---------------------|
| Chloride (IC) | E 300.0  | 90715      | 2013-11-22 at 14:37 | 107143   | 2013-11-22 at 14:37 |
| NO3 (IC)      | E 300.0  | 90715      | 2013-11-22 at 14:37 | 107143   | 2013-11-22 at 14:37 |
| TDS           | SM 2540C | 90686      | 2013-11-26 at 14:00 | 107099   | 2013-11-26 at 14:00 |
| TKN           | E 351.3  | 90989      | 2013-12-09 at 11:30 | 107467   | 2013-12-09 at 17:00 |

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 13112131 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: 347231 - 833-6**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107143 Date Analyzed: 2013-11-22 Analyzed By: JR  
 Prep Batch: 90715 Sample Preparation: 2013-11-22 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>771</b>             | <b>771</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 347231 - 833-6**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107143 Date Analyzed: 2013-11-22 Analyzed By: JR  
 Prep Batch: 90715 Sample Preparation: 2013-11-22 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>27.4</b>            | <b>27.4</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 347231 - 833-6**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107099 Date Analyzed: 2013-11-26 Analyzed By: MC  
 Prep Batch: 90686 Sample Preparation: 2013-11-26 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2490</b>            | <b>2490</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347231 - 833-6**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107467 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90989 Sample Preparation: 2013-12-09 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347232 - 833-7**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 107143      Date Analyzed: 2013-11-22      Analyzed By: JR  
 Prep Batch: 90715      Sample Preparation: 2013-11-22      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1330</b>  | <b>1330</b>  | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347232 - 833-7**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 107143      Date Analyzed: 2013-11-22      Analyzed By: JR  
 Prep Batch: 90715      Sample Preparation: 2013-11-22      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>78.3</b>  | <b>78.3</b>  | <0.426       | mg/L  | 10       | 0.426 | 0.5          | 0.0426       |

**Sample: 347232 - 833-7**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 107099      Date Analyzed: 2013-11-26      Analyzed By: MC  
 Prep Batch: 90686      Sample Preparation: 2013-11-26      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 | <b>4380</b>  | <b>4380</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347232 - 833-7**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107467 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90989 Sample Preparation: 2013-12-09 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347233 - 833-8**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107143 Date Analyzed: 2013-11-22 Analyzed By: JR  
 Prep Batch: 90715 Sample Preparation: 2013-11-22 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>827</b>   | <b>827</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347233 - 833-8**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107143 Date Analyzed: 2013-11-22 Analyzed By: JR  
 Prep Batch: 90715 Sample Preparation: 2013-11-22 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>86.3</b>  | <b>86.3</b>  | <0.426       | mg/L  | 10       | 0.426 | 0.5          | 0.0426       |

**Sample: 347233 - 833-8**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107099 Date Analyzed: 2013-11-26 Analyzed By: MC  
 Prep Batch: 90686 Sample Preparation: 2013-11-26 Prepared By: MC

*continued . . .*

sample 347233 continued ...

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3000</b>            | <b>3000</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347233 - 833-8**

Laboratory: Lubbock  
Analysis: TKN  
QC Batch: 107467  
Prep Batch: 90989

Analytical Method: E 351.3  
Date Analyzed: 2013-12-09  
Sample Preparation: 2013-12-09

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

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

## Method Blanks

### Method Blank (1)

QC Batch: 107099  
Prep Batch: 90686Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107143  
Prep Batch: 90715Date Analyzed: 2013-11-22  
QC Preparation: 2013-11-22Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | 1.37   | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107143  
Prep Batch: 90715Date Analyzed: 2013-11-22  
QC Preparation: 2013-11-22Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107467  
Prep Batch: 90989Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09Analyzed By: SAS  
Prepared By: SAS



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| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

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**Duplicate (1)** Duplicated Sample: 347219

QC Batch: 107099

Date Analyzed: 2013-11-26

Analyzed By: MC

Prep Batch: 90686

QC Preparation: 2013-11-26

Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3100             | 3110          | mg/L  | 1        | 0   | 10        |

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107099  
Prep Batch: 90686Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 992           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 1000          | mg/L  | 1    | 1000            | <2.50            | 100  | 90 - 110      | 1   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107143  
Prep Batch: 90715Date Analyzed: 2013-11-22  
QC Preparation: 2013-11-22Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.3          | mg/L  | 1    | 25.0            | <0.678           | 97   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 25.2          | mg/L  | 1    | 25.0            | <0.678           | 101  | 90 - 110      | 4   | 20           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107143  
Prep Batch: 90715Date Analyzed: 2013-11-22  
QC Preparation: 2013-11-22Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 4.90          | mg/L  | 1    | 5.00            | <0.0426          | 98   | 90 - 110      |

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

| Param     | F | C | LCSD   |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|           |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Nitrate-N |   | 1 | 5.08   | mg/L  | 1    | 5.00            | <0.0426          | 102          | 90 - 110      | 4   | 20           |

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

### Laboratory Control Spike (LCS-1)

QC Batch: 107467  
Prep Batch: 90989

Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|
|                             |   |   | Result | Units |      |                 |                  |              |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 49.7   | mg/L  | 1    | 50.0            | <1.66            | 99           | 75.5 - 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<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 50.4   | mg/L  | 1    | 50.0            | <1.66            | 101          | 75.5 - 115    | 1   | 20           |

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

### Matrix Spike (MS-1) Spiked Sample: 347231

QC Batch: 107143  
Prep Batch: 90715

Date Analyzed: 2013-11-22  
QC Preparation: 2013-11-22

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|
|          |   |   | Result | Units |      |                 |                  |              |               |
| Chloride |   | 1 | 2230   | mg/L  | 55.6 | 1390            | 771              | 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    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|          |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Chloride |   | 1 | 2240   | mg/L  | 55.6 | 1390            | 771              | 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: 347231

QC Batch: 107143  
Prep Batch: 90715

Date Analyzed: 2013-11-22  
QC Preparation: 2013-11-22

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 298          | mg/L  | 55.6 | 278             | 27.4             | 97   | 80 - 120      |

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

| Param     | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 299           | mg/L  | 55.6 | 278             | 27.4             | 98   | 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: 348091

QC Batch: 107467  
Prep Batch: 90989

Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.2         | mg/L  | 1    | 50.0            | 4.2              | 98   | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 4.2              | 97   | 41.1 - 118    | 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: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-22       |

### Standard (CCV-1)

QC Batch: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-22       |

### Standard (CCV-2)

QC Batch: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.9                   | 100                         | 90 - 110                      | 2013-11-22       |

### Standard (CCV-2)

QC Batch: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-22       |



**Standard (CCV-3)**

QC Batch: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-22       |

**Standard (CCV-3)**

QC Batch: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-22       |

**Standard (ICV-1)**

QC Batch: 107467

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-09       |

**Standard (CCV-1)**

QC Batch: 107467

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.62                   | 92                          | 85 - 115                      | 2013-12-09       |

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## Limits of Detection (LOD)

| Test          | Method   | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|----------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0  | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0  | water  | Dionex IC  | Nitrate-N                   | 0.126           | Pass |
| TDS           | SM 2540C | water  | N/A        | Total Dissolved Solids      | 0.00            | -    |
| TKN           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00            | Pass |

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# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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.



# 13112131 TraceAnalysis, Inc.

Company Name: **13112131** Phone #: 915-859-8150 Cell #: \_\_\_\_\_  
 D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip) \_\_\_\_\_  
 1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: \_\_\_\_\_ E-mail: vayala@dhpump.com  
 Victor Ayala

Invoice to (if different from above): \_\_\_\_\_  
 Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048  
 Project #: \_\_\_\_\_  
 Project Name: **Big Sky Dairy**  
 Project Location (including state): \_\_\_\_\_  
 Big Sky Dairy, 17800 Stern Drive, Mesquite, NM  
 Sampler Signature: \_\_\_\_\_

| LAB #<br>(LAB USE ONLY) | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | DATE     | SAMPLING TIME |     |      |
|-------------------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|---------------|-----|------|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH |          |               | ICE | NONE |
| 833-1                   |            | 1            |               | X      |      |     |        | X                   |                  |                                | X    |          |               |     |      |
| 833-2                   |            | 1            |               | X      |      |     |        | X                   |                  |                                | X    |          |               |     |      |
| 833-3                   |            | 1            |               | X      |      |     |        | X                   |                  |                                | X    |          |               |     |      |
| 833-3                   |            | 1            |               | X      |      |     |        | X                   |                  |                                | X    |          |               |     |      |
| 833-4                   |            | 1            |               | X      |      |     |        | X                   |                  |                                | X    |          |               |     |      |
| 833-4                   |            | 1            |               | X      |      |     |        | X                   |                  |                                | X    |          |               |     |      |
| 833-5                   |            | 1            |               | X      |      |     |        | X                   |                  |                                | X    |          |               |     |      |
| 833-5                   |            | 1            |               | X      |      |     |        | X                   |                  |                                | X    |          |               |     |      |
| 347231-833-6            |            | 1            | 250 ML        | X      |      |     |        | X                   |                  |                                | X    | 11/21/13 | 14:35         |     |      |
| 1-2 833-6               |            | 1            | 250 ML        | X      |      |     |        | X                   |                  |                                | X    | 11/21/13 | 14:35         |     |      |
| 347232-833-7            |            | 1            | 250 ML        | X      |      |     |        | X                   |                  |                                | X    | 11/21/13 | 9:08          |     |      |
| 1-2 833-7               |            | 1            | 250 ML        | X      |      |     |        | X                   |                  |                                | X    | 11/21/13 | 9:08          |     |      |
| 347233-833-8            |            | 1            | 250 ML        | X      |      |     |        | X                   |                  |                                | X    | 11/21/13 | 13:38         |     |      |
| 1-2 833-8               |            | 1            | 250 ML        | X      |      |     |        | X                   |                  |                                | X    | 11/21/13 | 13:38         |     |      |

Relinquished By: \_\_\_\_\_ Date: 11/21/13 Time: 14:59  
 Relinquished By: \_\_\_\_\_ Date: 11-21-13 Time: 16:30  
 Received By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 T.A. 11-21-13 14:59  
 Denny ch Han 11-21-13 16:30  
 Denny ch Han 11-21-13 16:30

ANALYSIS REQUEST

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

Remarks: **1/CE 884839024-A**  
**NOI, ch TDS @ E.P**  
**TKN @ Labback 11/21/13**  
 Dry Weight Basis Required  
 TRRP Report Required  
 1-21-13 cam in





6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

George Segura  
 Big Sky Dairy  
 17800 Stern Drive  
 P.O. Box 10  
 Mesquite, NM, 88048

Report Date: December 11, 2013

Work Order: 13112034



DP: 833  
 Project Location: 17800 Stern Drive, Mesquite, NM 88048  
 Project Name: Big Sky Dairy

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 347134 | 833-2       | water  | 2013-11-20 | 12:13      | 2013-11-20    |
| 347135 | 833-4       | water  | 2013-11-20 | 10:47      | 2013-11-20    |
| 347136 | 833-9       | water  | 2013-11-20 | 14:58      | 2013-11-20    |
| 347137 | 833-10      | water  | 2013-11-20 | 14:08      | 2013-11-20    |
| 347138 | 833 Lagoon  | water  | 2013-11-20 | 15:04      | 2013-11-20    |

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 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

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

*Michael Abel*

---

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

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## Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2013-11-20 and assigned to work order 13112034. Samples for work order 13112034 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  | 90648      | 2013-11-21 at 23:55 | 107057   | 2013-11-21 at 23:55 |
| NO3 (IC)      | E 300.0  | 90648      | 2013-11-21 at 23:55 | 107057   | 2013-11-21 at 23:55 |
| TDS           | SM 2540C | 90632      | 2013-11-25 at 11:00 | 107045   | 2013-11-25 at 11:00 |
| TKN           | E 351.3  | 90836      | 2013-12-03 at 13:00 | 107277   | 2013-12-03 at 17:30 |
| TKN           | E 351.3  | 90989      | 2013-12-09 at 11:30 | 107467   | 2013-12-09 at 17:00 |

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 13112034 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: 347134 - 833-2**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>884</b>      | <b>884</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347134 - 833-2**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>65.4</b>     | <b>65.4</b>     | <2.13           | mg/L  | 50       | 2.13 | 0.5          | 0.0426       |

**Sample: 347134 - 833-2**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107045 Date Analyzed: 2013-11-25 Analyzed By: MC  
 Prep Batch: 90632 Sample Preparation: 2013-11-25 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3060</b>     | <b>3060</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347134 - 833-2**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107277 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90836 Sample Preparation: 2013-12-03 Prepared By: SAS



| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347135 - 833-4**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>711</b>   | <b>711</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347135 - 833-4**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>12.8</b>  | <b>12.8</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347135 - 833-4**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107045 Date Analyzed: 2013-11-25 Analyzed By: MC  
 Prep Batch: 90632 Sample Preparation: 2013-11-25 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 | <b>2280</b>  | <b>2280</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347135 - 833-4**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107277 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90836 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL         | SQL   | Method | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-------------|-------|--------|-------|----------|------|--------------|--------------|
|                             |   |   | Based       | Based | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b> | <10.0 | <1.66  | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347136 - 833-9**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL         | SQL         | Method | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-------------|-------------|--------|-------|----------|------|--------------|--------------|
|           |   |   | Based       | Based       | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1060</b> | <b>1060</b> | <33.9  | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347136 - 833-9**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL        | SQL        | Method | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|------------|------------|--------|-------|----------|------|--------------|--------------|
|           |   |   | Based      | Based      | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>137</b> | <b>137</b> | <2.13  | mg/L  | 50       | 2.13 | 0.5          | 0.0426       |

**Sample: 347136 - 833-9**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107045 Date Analyzed: 2013-11-25 Analyzed By: MC  
 Prep Batch: 90632 Sample Preparation: 2013-11-25 Prepared By: MC

*continued . . .*

*sample 347136 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>4640</b>            | <b>4640</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347136 - 833-9**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107277

Prep Batch: 90836

Analytical Method: E 351.3

Date Analyzed: 2013-12-03

Sample Preparation: 2013-12-03

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 347137 - 833-10**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 107057

Prep Batch: 90648

Analytical Method: E 300.0

Date Analyzed: 2013-11-21

Sample Preparation: 2013-11-21

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>695</b>             | <b>695</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 347137 - 833-10**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 107057

Prep Batch: 90648

Analytical Method: E 300.0

Date Analyzed: 2013-11-21

Sample Preparation: 2013-11-21

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>2.93</b>            | <b>2.93</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 347137 - 833-10**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107045 Date Analyzed: 2013-11-25 Analyzed By: MC  
 Prep Batch: 90632 Sample Preparation: 2013-11-25 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2620</b>            | <b>2620</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347137 - 833-10**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107277 Date Analyzed: 2013-12-03 Analyzed By: SAS  
 Prep Batch: 90836 Sample Preparation: 2013-12-03 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 347138 - 833 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>765</b>             | <b>765</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 347138 - 833 Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107057 Date Analyzed: 2013-11-21 Analyzed By: JR  
 Prep Batch: 90648 Sample Preparation: 2013-11-21 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>2.88</b>     | <b>2.88</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347138 - 833 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107045 Date Analyzed: 2013-11-25 Analyzed By: MC  
 Prep Batch: 90632 Sample Preparation: 2013-11-25 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>6260</b>     | <b>6260</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347138 - 833 Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107467 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90989 Sample Preparation: 2013-12-09 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N |   | 2 | <b>297</b>      | <b>297</b>      | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |



## Method Blanks

### Method Blank (1)

QC Batch: 107045  
Prep Batch: 90632Date Analyzed: 2013-11-25  
QC Preparation: 2013-11-25Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107057  
Prep Batch: 90648Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107057  
Prep Batch: 90648Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107277  
Prep Batch: 90836Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Method Blank (1)**

QC Batch: 107467  
Prep Batch: 90989

Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09

Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Duplicate (1)** Duplicated Sample: 347134

QC Batch: 107045  
Prep Batch: 90632

Date Analyzed: 2013-11-25  
QC Preparation: 2013-11-25

Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3140             | 3060          | mg/L  | 1        | 3   | 10        |

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107045  
Prep Batch: 90632Date Analyzed: 2013-11-25  
QC Preparation: 2013-11-25Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 915           | mg/L  | 1    | 1000            | <2.50            | 92   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 939           | mg/L  | 1    | 1000            | <2.50            | 94   | 90 - 110      | 3   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107057  
Prep Batch: 90648Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 26.0          | mg/L  | 1    | 25.0            | <0.678           | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 25.9          | mg/L  | 1    | 25.0            | <0.678           | 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: 107057  
Prep Batch: 90648Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 5.23          | mg/L  | 1    | 5.00            | <0.0426          | 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   |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|           |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Nitrate-N |   | 1 | 5.21   | mg/L  | 1    | 5.00            | <0.0426          | 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: 107277  
Prep Batch: 90836

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 49.0   | mg/L  | 1    | 50.0            | <1.66            | 98   | 75.5 - 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 51.1   | mg/L  | 1    | 50.0            | <1.66            | 102  | 75.5 - 115    | 4   | 20           |

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

#### Laboratory Control Spike (LCS-1)

QC Batch: 107467  
Prep Batch: 90989

Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 49.7   | mg/L  | 1    | 50.0            | <1.66            | 99   | 75.5 - 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 50.4   | mg/L  | 1    | 50.0            | <1.66            | 101  | 75.5 - 115    | 1   | 20           |

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

#### Matrix Spike (MS-1) Spiked Sample: 347131

QC Batch: 107057  
Prep Batch: 90648

Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 2200         | mg/L  | 55.6 | 1390            | 625              | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 2190          | mg/L  | 55.6 | 1390            | 625              | 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: 347131

QC Batch: 107057  
Prep Batch: 90648

Date Analyzed: 2013-11-21  
QC Preparation: 2013-11-21

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 323          | mg/L  | 55.6 | 278             | 28.8             | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 324           | mg/L  | 55.6 | 278             | 28.8             | 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: 346995

QC Batch: 107277  
Prep Batch: 90836

Date Analyzed: 2013-12-03  
QC Preparation: 2013-12-03

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.9         | mg/L  | 1    | 50.0            | 4.2              | 99   | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 54.6          | mg/L  | 1    | 50.0            | 4.2              | 101  | 41.1 - 118    | 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: 348091

QC Batch: 107467  
Prep Batch: 90989

Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.2         | mg/L  | 1    | 50.0            | 4.2              | 98   | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 4.2              | 97            | 41.1 - 118   |
|                             |   |   |               |       |      |                 |                  |               | 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: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.6                   | 98                          | 90 - 110                      | 2013-11-21       |

### Standard (CCV-1)

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.96                   | 99                          | 90 - 110                      | 2013-11-21       |

### Standard (CCV-2)

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.9                   | 100                         | 90 - 110                      | 2013-11-21       |

### Standard (CCV-2)

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-21       |

**Standard (CCV-3)**

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-21       |

**Standard (CCV-3)**

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-21       |

**Standard (CCV-4)**

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-21       |

**Standard (CCV-4)**

QC Batch: 107057

Date Analyzed: 2013-11-21

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-21       |

**Standard (ICV-1)**

QC Batch: 107277

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 5.04                   | 101                         | 85 - 115                      | 2013-12-03       |

**Standard (CCV-1)**

QC Batch: 107277

Date Analyzed: 2013-12-03

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-03       |

**Standard (ICV-1)**

QC Batch: 107467

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-09       |

**Standard (CCV-1)**

QC Batch: 107467

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.62                   | 92                          | 85 - 115                      | 2013-12-09       |

---

## Limits of Detection (LOD)

| Test          | Method   | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|----------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0  | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0  | water  | Dionex IC  | Nitrate-N                   | 0.126           | Pass |
| TDS           | SM 2540C | water  | N/A        | Total Dissolved Solids      | 0.00            | -    |
| TKN           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00            | Pass |



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# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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.

# 13112034 TraceAnalysis, Inc.

Company Name: 13112034 TraceAnalysis, Inc. Phone #: 915-859-8150 Cell #: 915-859-8150

D&H Petroleum & Environmental Services Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907 Contact Person: Victor Ayala E-mail: [vayala@dhpump.com](mailto:vayala@dhpump.com)

Invoice to (if different from above): Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048 Project #: George Segura 575-233-3620 Project Name: Big Sky Dairy Sampler Signature:

| LAB # | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | SAMPLING |      |      |          |       |
|-------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|------|------|----------|-------|
|       |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE | DATE | TIME     |       |
| 833-1 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |
| 833-1 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |
| 833-2 |            | 1            | 350 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      |      | 11/20/13 | 12:13 |
| 833-2 |            | 1            | 350 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      |      | 11/20/13 | 12:13 |
| 833-3 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |
| 833-3 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |
| 833-4 |            | 1            | 350 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      |      | 11/20/13 | 10:47 |
| 833-4 |            | 1            | 350 mL        | X      |      |     |        | X                   |                  |                                |      | X        |      |      | 11/20/13 | 10:47 |
| 833-5 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |
| 833-5 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |
| 833-6 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |
| 833-6 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |
| 833-7 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |
| 833-7 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |
| 833-8 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |
| 833-8 |            | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |      |          |       |

| LAB Order ID #                                   | 13112034 | Page 1 of 1 |
|--|----------|-------------|
| CHAIN-OF-CUSTODY AND ANALYSIS REQUEST            |          |             |
| 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             |          |             |
| Turn Around Time                                 |          |             |
| Hold   |          |             |

Relinquished By: [Signature] Date: 11/20/13 Time: 15:00  
 Received By: [Signature] Date: 11/20/13 Time: 15:08  
 Relinquished By: [Signature] Date: 11/20/13 Time: 16:30  
 Received By: [Signature] Date: 11/20/13 Time: 9:00

Lab Use Only  
 Intact  Y /  N  
 Headspace  Y /  N  
 Temp  22C /  22C  
 Log  11/20/13

Remarks: c1, uo, 7-01  
 85-48590240  
 Dry Weight Basis Required  
 TRRP Report Required



# TraceAnalysis, Inc.

Company Name: TraceAnalysis, Inc.  
Phone #: 915-859-8150  
Cell #: \_\_\_\_\_  
Fax #: \_\_\_\_\_  
E-mail: vayala@dhpump.com

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):  
George Segura 575-233-3620

Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048  
Project #: \_\_\_\_\_  
Project Name: Big Sky Dairy  
Sampler Signature: \_\_\_\_\_

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

| LAB #<br>(LAB USE ONLY) | Field Code | # Containers | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | Sampling |      | TIME | Turn Around Time |       |      |
|-------------------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|------|------|------------------|-------|------|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE |      |                  | DATE  | TIME |
| 833-9                   |            | 1            | 250 ml        | X      |      |     |        | X                   |                  |                                |      | X        |      |      | 11/20/13         | 14:58 |      |
| 833-9                   |            | 1            | 250 ml        | X      |      |     |        | X                   |                  |                                |      | X        |      |      | 11/20/13         | 14:58 |      |
| 833-10                  |            | 1            | 250 ml        | X      |      |     |        | X                   |                  |                                |      | X        |      |      | 11/20/13         | 14:08 |      |
| 833-10                  |            | 1            | 250 ml        | X      |      |     |        | X                   |                  |                                |      | X        |      |      | 11/20/13         | 14:08 |      |
| 833 Lagoon              |            | 1            | 250 ml        | X      |      |     |        | X                   |                  |                                |      | X        |      |      | 11/20/13         | 15:04 |      |
| 833 Lagoon              |            | 1            | 250 ml        | X      |      |     |        | X                   |                  |                                |      | X        |      |      | 11/20/13         | 15:04 |      |

### 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 Kjeldhal Nitrogen SM 4500 NORG C           | X |
| Chloride EPA 300.0                               | X |
| Total Dissolved Solids SM 2540 C MOD             | X |

LAB Order ID # 13112034

Page 2 of 2

### CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

|                                     |                       |                    |   |                       |                    |
|-------------------------------------|-----------------------|--------------------|---|-----------------------|--------------------|
| Relinquished By: <u>[Signature]</u> | Date: <u>11/20/13</u> | Time: <u>15:09</u> | Received By: <u>[Signature]</u>               | Date: <u>11/20/13</u> | Time: <u>15:08</u> |
| Relinquished By: <u>[Signature]</u> | Date: <u>11/20/13</u> | Time: <u>16:30</u> | Received at Laboratory By: <u>[Signature]</u> | Date: <u>11/20/13</u> | Time: <u>15:00</u> |

Remarks: Ch, 103, T-13  
J.S. 48590240  
Dry Weight Basis Required  
TRRP Report Required

Lab Use Only  
Intact  N  
Headspace Y / N  
Temp 22.2 / 22.2  
Log-in Review Y / N



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 11, 2013

Work Order: 13112128



DP: 177  
Project Location: 14310 Stern Dr., Mesquite, NM  
Project Name: Gonzalez Dairy Inc.

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 347219 | 177-06      | water  | 2013-11-21 | 11:38      | 2013-11-21    |

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

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

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

# Report Contents

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## Case Narrative

Samples for project Gonzalez Dairy Inc. were received by TraceAnalysis, Inc. on 2013-11-21 and assigned to work order 13112128. Samples for work order 13112128 were received intact at a temperature of 5 C.

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

| Test          | Method   | Prep Batch | Prep Date           | QC Batch | Analysis Date       |
|---------------|----------|------------|---------------------|----------|---------------------|
| Chloride (IC) | E 300.0  | 90715      | 2013-11-22 at 14:37 | 107143   | 2013-11-22 at 14:37 |
| NO3 (IC)      | E 300.0  | 90715      | 2013-11-22 at 14:37 | 107143   | 2013-11-22 at 14:37 |
| TDS           | SM 2540C | 90686      | 2013-11-26 at 14:00 | 107099   | 2013-11-26 at 14:00 |
| TKN           | E 351.3  | 90989      | 2013-12-09 at 11:30 | 107467   | 2013-12-09 at 17:00 |

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 13112128 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: 347219 - 177-06**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107143 Date Analyzed: 2013-11-22 Analyzed By: JR  
 Prep Batch: 90715 Sample Preparation: 2013-11-22 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1080</b>     | <b>1080</b>     | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347219 - 177-06**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107143 Date Analyzed: 2013-11-22 Analyzed By: JR  
 Prep Batch: 90715 Sample Preparation: 2013-11-22 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>24.1</b>     | <b>24.1</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347219 - 177-06**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107099 Date Analyzed: 2013-11-26 Analyzed By: MC  
 Prep Batch: 90686 Sample Preparation: 2013-11-26 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3110</b>     | <b>3110</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347219 - 177-06**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107467 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90989 Sample Preparation: 2013-12-09 Prepared By: SAS

---

| Parameter                   | F | C | SDL         | SQL         | Method | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-------------|-------------|--------|-------|----------|------|--------------|--------------|
|                             |   |   | Based       | Based       | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N |   | 2 | <b>14.0</b> | <b>14.0</b> | <1.66  | mg/L  | 1        | 1.66 | 10           | 1.66         |

---

## Method Blanks

### Method Blank (1)

QC Batch: 107099  
Prep Batch: 90686Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107143  
Prep Batch: 90715Date Analyzed: 2013-11-22  
QC Preparation: 2013-11-22Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | 1.37   | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107143  
Prep Batch: 90715Date Analyzed: 2013-11-22  
QC Preparation: 2013-11-22Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107467  
Prep Batch: 90989Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09Analyzed By: SAS  
Prepared By: SAS

Report Date: December 11, 2013

Work Order: 13112128  
Gonzalez Dairy Inc.

Page Number: 7 of 14  
14310 Stern Dr., Mesquite, NM

---

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

---

**Duplicate (1)** Duplicated Sample: 347219

QC Batch: 107099

Date Analyzed: 2013-11-26

Analyzed By: MC

Prep Batch: 90686

QC Preparation: 2013-11-26

Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3100             | 3110          | mg/L  | 1        | 0   | 10        |

---



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107099  
Prep Batch: 90686Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 992           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 1000          | mg/L  | 1    | 1000            | <2.50            | 100  | 90 - 110      | 1   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107143  
Prep Batch: 90715Date Analyzed: 2013-11-22  
QC Preparation: 2013-11-22Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.3          | mg/L  | 1    | 25.0            | <0.678           | 97   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 25.2          | mg/L  | 1    | 25.0            | <0.678           | 101  | 90 - 110      | 4   | 20           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107143  
Prep Batch: 90715Date Analyzed: 2013-11-22  
QC Preparation: 2013-11-22Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 4.90          | mg/L  | 1    | 5.00            | <0.0426          | 98   | 90 - 110      |

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



| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 298          | mg/L  | 55.6 | 278             | 27.4             | 97   | 80 - 120      |

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

| Param     | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 299           | mg/L  | 55.6 | 278             | 27.4             | 98   | 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: 348091

QC Batch: 107467  
Prep Batch: 90989

Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.2         | mg/L  | 1    | 50.0            | 4.2              | 98   | 41.1 - 118    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 4.2              | 97   | 41.1 - 118    | 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: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-22       |

### Standard (CCV-1)

QC Batch: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-22       |

### Standard (CCV-2)

QC Batch: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.9                   | 100                         | 90 - 110                      | 2013-11-22       |

### Standard (CCV-2)

QC Batch: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-22       |

**Standard (CCV-3)**

QC Batch: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-22       |

**Standard (CCV-3)**

QC Batch: 107143

Date Analyzed: 2013-11-22

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.99                   | 100                         | 90 - 110                      | 2013-11-22       |

**Standard (ICV-1)**

QC Batch: 107467

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-09       |

**Standard (CCV-1)**

QC Batch: 107467

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.62                   | 92                          | 85 - 115                      | 2013-12-09       |



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## 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                   | 0.126        | Pass |
| TDS           | SM 2540C | water  | N/A        | Total Dissolved Solids      | 0.00         | -    |
| TKN           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00         | Pass |

---

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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

George Segura  
Big Sky Dairy  
17800 Stern Drive  
P.O. Box 10  
Mesquite, NM, 88048

Report Date: December 11, 2013

Work Order: 13112521



DP: 833  
Project Location: 17800 Stern Drive, Mesquite, NM 88048  
Project Name: Big Sky Dairy

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 347458 | 833-5       | water  | 2013-11-25 | 09:58      | 2013-11-25    |

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 15 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

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

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

# Report Contents

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## Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2013-11-25 and assigned to work order 13112521. Samples for work order 13112521 were received intact at a temperature of 2 C.

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

| Test          | Method          | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|---------------|-----------------|---------------|---------------------|-------------|---------------------|
| Chloride (IC) | E 300.0         | 90838         | 2013-11-26 at 18:56 | 107278      | 2013-11-26 at 18:56 |
| NO3 (IC)      | E 300.0         | 90838         | 2013-11-26 at 18:56 | 107278      | 2013-11-26 at 18:56 |
| TDS           | SM 2540C        | 90686         | 2013-11-26 at 14:00 | 107099      | 2013-11-26 at 14:00 |
| TKN           | SM 4500-NH3 B,C | 90993         | 2013-12-09 at 11:30 | 107470      | 2013-12-09 at 17:30 |

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 13112521 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: 347458 - 833-5**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1060</b>     | <b>1060</b>     | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347458 - 833-5**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>17.8</b>     | <b>17.8</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347458 - 833-5**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107099 Date Analyzed: 2013-11-26 Analyzed By: MC  
 Prep Batch: 90686 Sample Preparation: 2013-11-26 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>2900</b>     | <b>2900</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347458 - 833-5**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107470 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90993 Sample Preparation: 2013-12-09 Prepared By: SAS

---

| Parameter                   | F | C | SDL         | SQL   | Method | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-------------|-------|--------|-------|----------|------|--------------|--------------|
|                             |   |   | Based       | Based | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b> | <10.0 | <1.66  | mg/L  | 1        | 1.66 | 10           | 1.66         |

---

## Method Blanks

### Method Blank (1)

QC Batch: 107099  
Prep Batch: 90686Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | 1.35   | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107470  
Prep Batch: 90993Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09Analyzed By: SAS  
Prepared By: SAS

Report Date: December 11, 2013

Work Order: 13112521  
Big Sky Dairy

Page Number: 7 of 15  
17800 Stern Drive, Mesquite, NM 88048

---

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

---

**Duplicate (1)** Duplicated Sample: 347219

QC Batch: 107099

Date Analyzed: 2013-11-26

Analyzed By: MC

Prep Batch: 90686

QC Preparation: 2013-11-26

Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3100             | 3110          | mg/L  | 1        | 0   | 10        |

---



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107099  
Prep Batch: 90686Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 992           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Total Dissolved Solids |   | 1 | 1000          | mg/L  | 1    | 1000            | <2.50            | 100           | 90 - 110 | 1            | 10 |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 25.5          | mg/L  | 1    | 25.0            | <0.678           | 102  | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Chloride |   | 1 | 25.4          | mg/L  | 1    | 25.0            | <0.678           | 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: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 5.14          | mg/L  | 1    | 5.00            | <0.0426          | 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<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|           |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Nitrate-N |   | 1 | 5.13   | mg/L  | 1    | 5.00            | <0.0426          | 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: 107470  
Prep Batch: 90993

Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 49.0   | mg/L  | 1    | 50.0            | <1.66            | 98   | 79.2 - 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 49.7   | mg/L  | 1    | 50.0            | <1.66            | 99   | 79.2 - 115    | 1   | 20           |

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

### Matrix Spike (MS-1) Spiked Sample: 347572

QC Batch: 107278  
Prep Batch: 90838

Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|          |   |   | Result | Units |      |                 |                  |      |               |
| Chloride |   | 1 | 1790   | mg/L  | 55.6 | 1390            | 341              | 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|          |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Chloride |   | 1 | 1800   | mg/L  | 55.6 | 1390            | 341              | 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: 347572

QC Batch: 107278  
Prep Batch: 90838

Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 288          | mg/L  | 55.6 | 278             | <2.37            | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|-----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Nitrate-N |   | 1 | 289           | mg/L  | 55.6 | 278             | <2.37            | 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: 347568

QC Batch: 107470  
Prep Batch: 90993

Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.1         | mg/L  | 1    | 50.0            | 2.1              | 98   | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|------------|--------------|----|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 2.1              | 101           | 58.1 - 115 | 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: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.5                   | 98                          | 90 - 110                      | 2013-11-26       |

### Standard (CCV-1)

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-11-26       |

### Standard (CCV-2)

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.6                   | 98                          | 90 - 110                      | 2013-11-26       |

### Standard (CCV-2)

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.01                   | 100                         | 90 - 110                      | 2013-11-26       |

**Standard (CCV-3)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-3)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.03                   | 101                         | 90 - 110                      | 2013-11-26       |

**Standard (CCV-4)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-4)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.05                   | 101                         | 90 - 110                      | 2013-11-26       |

**Standard (CCV-5)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR



| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-5)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.04                   | 101                         | 90 - 110                      | 2013-11-26       |

**Standard (ICV-1)**

QC Batch: 107470

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-09       |

**Standard (CCV-1)**

QC Batch: 107470

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-09       |

---

## 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                   | 0.126        | 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 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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

Isaac Dominguez  
 Dominguez Dairy #2  
 13600 Stern Drive  
 P. O. Box 21  
 Mesquite, NM, 88048

Report Date: December 13, 2013

Work Order: 13112634



Project Location: 13600 Stern Drive, Mesquite, NM  
 Project Name: Dominguez Dairy #2  
 Project #: 42

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 347565 | 42-2        | water  | 2013-11-26 | 10:56      | 2013-11-26    |
| 347566 | 42-3        | water  | 2013-11-26 | 08:25      | 2013-11-26    |
| 347567 | 42-6        | water  | 2013-11-26 | 12:39      | 2013-11-26    |
| 347568 | 42-8        | water  | 2013-11-26 | 11:49      | 2013-11-26    |
| 347569 | 42-9        | water  | 2013-11-26 | 10:30      | 2013-11-26    |
| 347570 | 42-10       | water  | 2013-11-26 | 14:36      | 2013-11-26    |
| 347571 | 42-11       | water  | 2013-11-26 | 13:45      | 2013-11-26    |

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

This report consists of a total of 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.*



*Michael Abel*

---

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

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## Case Narrative

Samples for project Dominguez Dairy #2 were received by TraceAnalysis, Inc. on 2013-11-26 and assigned to work order 13112634. Samples for work order 13112634 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         | 90839      | 2013-11-27 at 18:13 | 107279   | 2013-11-27 at 18:13 |
| NO3 (IC)      | E 300.0         | 90839      | 2013-11-27 at 18:13 | 107279   | 2013-11-27 at 18:13 |
| TDS           | SM 2540C        | 90730      | 2013-11-27 at 14:30 | 107162   | 2013-11-27 at 14:30 |
| TDS           | SM 2540C        | 90741      | 2013-11-29 at 14:30 | 107172   | 2013-11-29 at 14:30 |
| TKN           | SM 4500-NH3 B,C | 90993      | 2013-12-09 at 11:30 | 107470   | 2013-12-09 at 17:30 |
| TKN           | SM 4500-NH3 B,C | 91054      | 2013-12-12 at 11:00 | 107547   | 2013-12-12 at 16:15 |

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13112634 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: 347565 - 42-2**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107279 Date Analyzed: 2013-11-27 Analyzed By: JR  
 Prep Batch: 90839 Sample Preparation: 2013-11-27 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>490</b>      | <b>490</b>      | <6.78           | mg/L  | 10       | 6.78 | 2.5          | 0.678        |

**Sample: 347565 - 42-2**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107279 Date Analyzed: 2013-11-27 Analyzed By: JR  
 Prep Batch: 90839 Sample Preparation: 2013-11-27 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>9.62</b>     | <b>9.62</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347565 - 42-2**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107162 Date Analyzed: 2013-11-27 Analyzed By: MC  
 Prep Batch: 90730 Sample Preparation: 2013-11-27 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>2260</b>     | <b>2260</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347565 - 42-2**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107470 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90993 Sample Preparation: 2013-12-09 Prepared By: SAS



| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347566 - 42-3**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 107279      Date Analyzed: 2013-11-27      Analyzed By: JR  
 Prep Batch: 90839      Sample Preparation: 2013-11-27      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1090</b>  | <b>1090</b>  | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347566 - 42-3**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 107279      Date Analyzed: 2013-11-27      Analyzed By: JR  
 Prep Batch: 90839      Sample Preparation: 2013-11-27      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>62.9</b>  | <b>62.9</b>  | <0.426       | mg/L  | 10       | 0.426 | 0.5          | 0.0426       |

**Sample: 347566 - 42-3**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 107162      Date Analyzed: 2013-11-27      Analyzed By: MC  
 Prep Batch: 90730      Sample Preparation: 2013-11-27      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 | <b>3660</b>  | <b>3660</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347566 - 42-3**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107470 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90993 Sample Preparation: 2013-12-09 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347567 - 42-6**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107279 Date Analyzed: 2013-11-27 Analyzed By: JR  
 Prep Batch: 90839 Sample Preparation: 2013-11-27 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>397</b>   | <b>397</b>   | <6.78        | mg/L  | 10       | 6.78 | 2.5          | 0.678        |

**Sample: 347567 - 42-6**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107279 Date Analyzed: 2013-11-27 Analyzed By: JR  
 Prep Batch: 90839 Sample Preparation: 2013-11-27 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>76.3</b>  | <b>76.3</b>  | <0.426       | mg/L  | 10       | 0.426 | 0.5          | 0.0426       |

**Sample: 347567 - 42-6**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107162 Date Analyzed: 2013-11-27 Analyzed By: MC  
 Prep Batch: 90730 Sample Preparation: 2013-11-27 Prepared By: MC

*continued . . .*

*sample 347567 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2270</b>            | <b>2270</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347567 - 42-6**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107470

Prep Batch: 90993

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-12-09

Sample Preparation: 2013-12-09

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 347568 - 42-8**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 107279

Prep Batch: 90839

Analytical Method: E 300.0

Date Analyzed: 2013-11-27

Sample Preparation: 2013-11-27

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>275</b>             | <b>275</b>             | <6.78                     | mg/L  | 10       | 6.78 | 2.5                 | 0.678               |

**Sample: 347568 - 42-8**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 107279

Prep Batch: 90839

Analytical Method: E 300.0

Date Analyzed: 2013-11-27

Sample Preparation: 2013-11-27

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>30.8</b>            | <b>30.8</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 347568 - 42-8**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107162 Date Analyzed: 2013-11-27 Analyzed By: MC  
 Prep Batch: 90730 Sample Preparation: 2013-11-27 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1780</b>            | <b>1780</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347568 - 42-8**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107470 Date Analyzed: 2013-12-09 Analyzed By: SAS  
 Prep Batch: 90993 Sample Preparation: 2013-12-09 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 347569 - 42-9**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107279 Date Analyzed: 2013-11-27 Analyzed By: JR  
 Prep Batch: 90839 Sample Preparation: 2013-11-27 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>731</b>             | <b>731</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 347569 - 42-9**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107279 Date Analyzed: 2013-11-27 Analyzed By: JR  
 Prep Batch: 90839 Sample Preparation: 2013-11-27 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>51.2</b>     | <b>51.2</b>     | <0.426          | mg/L  | 10       | 0.426 | 0.5          | 0.0426       |

**Sample: 347569 - 42-9**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107172 Date Analyzed: 2013-11-29 Analyzed By: MC  
 Prep Batch: 90741 Sample Preparation: 2013-11-29 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3030</b>     | <b>3030</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347569 - 42-9**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107547 Date Analyzed: 2013-12-12 Analyzed By: SAS  
 Prep Batch: 91054 Sample Preparation: 2013-12-12 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347570 - 42-10**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107279 Date Analyzed: 2013-11-27 Analyzed By: JR  
 Prep Batch: 90839 Sample Preparation: 2013-11-27 Prepared By: JR

*continued ...*



*sample 347570 continued ...*

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>435</b>             | <b>435</b>             | <6.78                     | mg/L  | 10       | 6.78 | 2.5                 | 0.678               |

**Sample: 347570 - 42-10**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107279 Date Analyzed: 2013-11-27 Analyzed By: JR  
 Prep Batch: 90839 Sample Preparation: 2013-11-27 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | J | 1 | <b>1.10</b>            | <2.50                  | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 347570 - 42-10**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107172 Date Analyzed: 2013-11-29 Analyzed By: MC  
 Prep Batch: 90741 Sample Preparation: 2013-11-29 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1420</b>            | <b>1420</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347570 - 42-10**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107547 Date Analyzed: 2013-12-12 Analyzed By: SAS  
 Prep Batch: 91054 Sample Preparation: 2013-12-12 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 347571 - 42-11**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107279 Date Analyzed: 2013-11-27 Analyzed By: JR  
 Prep Batch: 90839 Sample Preparation: 2013-11-27 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>344</b>             | <b>344</b>             | <6.78                     | mg/L  | 10       | 6.78 | 2.5                 | 0.678               |

**Sample: 347571 - 42-11**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107279 Date Analyzed: 2013-11-27 Analyzed By: JR  
 Prep Batch: 90839 Sample Preparation: 2013-11-27 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | J | 1 | <b>1.43</b>            | <2.50                  | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 347571 - 42-11**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107172 Date Analyzed: 2013-11-29 Analyzed By: MC  
 Prep Batch: 90741 Sample Preparation: 2013-11-29 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1260</b>            | <b>1260</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347571 - 42-11**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107547 Date Analyzed: 2013-12-12 Analyzed By: SAS  
 Prep Batch: 91054 Sample Preparation: 2013-12-12 Prepared By: SAS

*continued ...*

sample 347571 continued ...

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-----|---------------------|---------------------|
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-----|---------------------|---------------------|

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

## Method Blanks

### Method Blank (1)

QC Batch: 107162  
Prep Batch: 90730Date Analyzed: 2013-11-27  
QC Preparation: 2013-11-27Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107172  
Prep Batch: 90741Date Analyzed: 2013-11-29  
QC Preparation: 2013-11-29Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107279  
Prep Batch: 90839Date Analyzed: 2013-11-27  
QC Preparation: 2013-11-27Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107279  
Prep Batch: 90839Date Analyzed: 2013-11-27  
QC Preparation: 2013-11-27Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

**Method Blank (1)**QC Batch: 107470  
Prep Batch: 90993Date Analyzed: 2013-12-09  
QC Preparation: 2013-12-09Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Method Blank (1)**QC Batch: 107547  
Prep Batch: 91054Date Analyzed: 2013-12-12  
QC Preparation: 2013-12-12Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Duplicate (1)** Duplicated Sample: 347453QC Batch: 107162  
Prep Batch: 90730Date Analyzed: 2013-11-27  
QC Preparation: 2013-11-27Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3060             | 3090          | mg/L  | 1        | 1   | 10        |

**Duplicate (1)** Duplicated Sample: 347569QC Batch: 107172  
Prep Batch: 90741Date Analyzed: 2013-11-29  
QC Preparation: 2013-11-29Analyzed By: MC  
Prepared By: MC



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| Param                  | F | C | Duplicate<br>Result | Sample<br>Result | Units | Dilution | RPD | RPD<br>Limit |
|------------------------|---|---|---------------------|------------------|-------|----------|-----|--------------|
| Total Dissolved Solids |   | 1 | 2960                | 3030             | mg/L  | 1        | 2   | 10           |

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107162  
Prep Batch: 90730Date Analyzed: 2013-11-27  
QC Preparation: 2013-11-27Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 989           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 990           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      | 0   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107172  
Prep Batch: 90741Date Analyzed: 2013-11-29  
QC Preparation: 2013-11-29Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 987           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 1010          | mg/L  | 1    | 1000            | <2.50            | 101  | 90 - 110      | 2   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107279  
Prep Batch: 90839Date Analyzed: 2013-11-27  
QC Preparation: 2013-11-27Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.7          | mg/L  | 1    | 25.0            | <0.678           | 99   | 90 - 110      |

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



| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 48.3   | mg/L  | 1    | 50.0            | <1.66            | 97   | 79.2 - 115    |

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

| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 47.6   | mg/L  | 1    | 50.0            | <1.66            | 95   | 79.2 - 115    | 1   | 20           |

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

**Matrix Spike (MS-1)** Spiked Sample: 347571

QC Batch: 107279  
Prep Batch: 90839

Date Analyzed: 2013-11-27  
QC Preparation: 2013-11-27

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|          |   |   | Result | Units |      |                 |                  |      |               |
| Chloride |   | 1 | 1770   | mg/L  | 55.6 | 1390            | 344              | 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|          |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Chloride |   | 1 | 1750   | mg/L  | 55.6 | 1390            | 344              | 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: 347571

QC Batch: 107279  
Prep Batch: 90839

Date Analyzed: 2013-11-27  
QC Preparation: 2013-11-27

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|           |   |   | Result | Units |      |                 |                  |      |               |
| Nitrate-N |   | 1 | 282    | mg/L  | 55.6 | 278             | <2.37            | 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|           |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Nitrate-N |   | 1 | 279    | mg/L  | 55.6 | 278             | <2.37            | 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: 347568

QC Batch: 107470 Date Analyzed: 2013-12-09 Analyzed By: SAS  
Prep Batch: 90993 QC Preparation: 2013-12-09 Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.1         | mg/L  | 1    | 50.0            | 2.1              | 98   | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|------------|--------------|----|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 2.1              | 101           | 58.1 - 115 | 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: 347569

QC Batch: 107547 Date Analyzed: 2013-12-12 Analyzed By: SAS  
Prep Batch: 91054 QC Preparation: 2013-12-12 Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.8         | mg/L  | 1    | 50.0            | 2.8              | 98   | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|------------|--------------|----|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 2.8              | 99            | 58.1 - 115 | 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: 107279

Date Analyzed: 2013-11-27

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-27       |

### Standard (CCV-1)

QC Batch: 107279

Date Analyzed: 2013-11-27

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.04                   | 101                         | 90 - 110                      | 2013-11-27       |

### Standard (CCV-2)

QC Batch: 107279

Date Analyzed: 2013-11-27

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-27       |

### Standard (CCV-2)

QC Batch: 107279

Date Analyzed: 2013-11-27

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.04                   | 101                         | 90 - 110                      | 2013-11-27       |

**Standard (CCV-3)**

QC Batch: 107279

Date Analyzed: 2013-11-27

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-27       |

**Standard (CCV-3)**

QC Batch: 107279

Date Analyzed: 2013-11-27

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.04                   | 101                         | 90 - 110                      | 2013-11-27       |

**Standard (CCV-4)**

QC Batch: 107279

Date Analyzed: 2013-11-27

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-27       |

**Standard (CCV-4)**

QC Batch: 107279

Date Analyzed: 2013-11-27

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.05                   | 101                         | 90 - 110                      | 2013-11-27       |

**Standard (ICV-1)**

QC Batch: 107470

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-09       |

**Standard (CCV-1)**

QC Batch: 107470

Date Analyzed: 2013-12-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-09       |

**Standard (ICV-1)**

QC Batch: 107547

Date Analyzed: 2013-12-12

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 5.04                   | 101                         | 85 - 115                      | 2013-12-12       |

**Standard (CCV-1)**

QC Batch: 107547

Date Analyzed: 2013-12-12

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-12       |

---

## Limits of Detection (LOD)

| Test          | Method          | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|-----------------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0         | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0         | water  | Dionex IC  | Nitrate-N                   | 0.126           | 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 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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.



8701 Aberdeen, Ste. 9  
Lubbock, TX 79424  
Tel (806) 794-1286  
Fax (806) 794-1286

# 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](mailto:vayala@dhpump.com)

Invoice to (if different from above):  
Isaac Dominguez 575-849-7040  
Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048  
Project #:  
Project Name:  
Dominguez Dairy #2  
Sampler Signature:

Project Location (including state):  
Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM

| LAB #  | (LAB USE ONLY) | Field Code | # Containers | Volume/Amount | MATRIX | PRESERVATIVE METHOD            | SAMPLING | DATE     | TIME  |
|--------|----------------|------------|--------------|---------------|--------|--------------------------------|----------|----------|-------|
| 347553 | -2             | 42-2       | 1            | 250ml         | WATER  | HCl                            | X        | 11-26-13 | 10:54 |
| 347554 | -2             | 42-2       | 1            |               | SLUDGE | H <sub>2</sub> SO <sub>4</sub> | X        |          | 10:56 |
| 347555 | -2             | 42-3       | 1            |               | AIR    | NaOH                           | X        |          | 8:25  |
| 347556 | -2             | 42-3       | 1            |               | SOIL   | H <sub>2</sub> SO <sub>4</sub> | X        |          | 8:25  |
| 347557 | -2             | 42-6       | 1            |               | WATER  | HCl                            | X        |          | 12:39 |
| 347558 | -2             | 42-6       | 1            |               | SLUDGE | H <sub>2</sub> SO <sub>4</sub> | X        |          | 12:59 |
| 347559 | -2             | 42-7       | 1            |               | AIR    | H <sub>2</sub> SO <sub>4</sub> | X        |          |       |
| 347560 | -2             | 42-7       | 1            |               | SOIL   | H <sub>2</sub> SO <sub>4</sub> | X        |          |       |
| 347561 | -2             | 42-8       | 1            |               | WATER  | HCl                            | X        |          | 11:49 |
| 347562 | -2             | 42-8       | 1            |               | SLUDGE | H <sub>2</sub> SO <sub>4</sub> | X        |          | 11:49 |
| 347563 | -2             | 42-8       | 1            |               | AIR    | H <sub>2</sub> SO <sub>4</sub> | X        |          | 10:30 |
| 347564 | -2             | 42-8       | 1            |               | SOIL   | H <sub>2</sub> SO <sub>4</sub> | X        |          | 10:30 |
| 347565 | -2             | 42-9       | 1            |               | WATER  | HCl                            | X        |          | 14:36 |
| 347566 | -2             | 42-10      | 1            |               | SLUDGE | H <sub>2</sub> SO <sub>4</sub> | X        |          | 14:36 |
| 347567 | -2             | 42-10      | 1            |               | AIR    | H <sub>2</sub> SO <sub>4</sub> | X        |          | 13:45 |
| 347568 | -2             | 42-11      | 1            |               | SOIL   | H <sub>2</sub> SO <sub>4</sub> | X        |          | 13:45 |
| 347569 | -2             | 42-11      | 1            |               | WATER  | HCl                            | X        |          |       |

| ANALYSIS REQUEST | MTBE 8021B/802 | BTEX 8021B/802 | 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 601DB/200.7 | Nitrates EPA 300 | Total Kjeldahl Nitrogen SM 4500 NORG C | Chloride EPA 300 D | Total Dissolved Solids SM 2540 C MOD |
|------------------|----------------|----------------|--------------------|------------------------|-----------|-------------------------------|--|------------------|--|--------------------|--------------------------------------|
|                  |                |                |                    |                        |           |                               | X  | X                | X                                      | X                  | X                                    |

| LAB USE ONLY | Received By: | Date:    | Time: | Relinquished By: | Date:    | Time: |
|--------------|--------------|----------|-------|------------------|----------|-------|
|              | U. R. TAEP   | 11-26-13 | 15:53 | U. R. TAEP       | 11-26-13 | 15:50 |

| LAB USE ONLY | Received By: | Date:    | Time: | Relinquished By: | Date:    | Time: |
|--------------|--------------|----------|-------|------------------|----------|-------|
|              | U. R. TAEP   | 11-26-13 | 15:53 | U. R. TAEP       | 11-26-13 | 15:50 |

| LAB USE ONLY | Received By: | Date:    | Time: | Relinquished By: | Date:    | Time: |
|--------------|--------------|----------|-------|------------------|----------|-------|
|              | U. R. TAEP   | 11-26-13 | 15:53 | U. R. TAEP       | 11-26-13 | 15:50 |

Relinquished By: [Signature] Date: 11-26-13 Time: 15:53  
 Received at Laboratory By: [Signature] Date: 11-26-13 Time: 15:50

Remarks: M JCL  
 Lab Use Only  
 Intact D/L N  
 Headspace Y / N  
 Temp 10°C  
 Dry Weight Basis Required

13112634

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

# TraceAnalysis, Inc.

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

Page      of     

## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 13112634

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):

Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048

Project #:

Isaac Dominguez 575-649-7040

Project Name:

Dominguez Dairy #2


Sampler 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 <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE | DATE     | TIME  |
| 3475051 | 42-2       | 1            | 250ml         | X      |      |     |        | X                   |                  |                                |      | X        |      | 11-26-13 | 10:56 |
| J-2     | 42-2       | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 10:56    | 10:56 |
| 3475061 | 42-3       | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 8:25     | 8:25  |
| J-2     | 42-3       | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 8:25     | 8:25  |
| 3475071 | 42-6       | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 12:39    | 12:39 |
| J-2     | 42-6       | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 12:39    | 12:39 |
| 3475081 | 42-7       | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
| J-2     | 42-7       | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      |          |       |
| 3475091 | 42-8       | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 11:49    | 11:49 |
| J-2     | 42-8       | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 11:49    | 11:49 |
| 3475101 | 42-9       | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 10:30    | 10:30 |
| J-2     | 42-9       | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 10:30    | 10:30 |
| 3475111 | 42-10      | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 14:36    | 14:36 |
| J-2     | 42-10      | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 14:36    | 14:36 |
| 3475121 | 42-11      | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 13:45    | 13:45 |
| J-2     | 42-11      | 1            |               | X      |      |     |        | X                   |                  |                                |      | X        |      | 13:45    | 13:45 |

| Relinquished By:  | Date:    | Time: | Received By:               | Date:    | Time: |
|---|----------|-------|----------------------------|----------|-------|
|  | 11-26-13 | 15:53 | MRC TAEP                   | 11-26-13 | 8:50  |
| Relinquished By:  | Date:    | Time: | Received at Laboratory By: | Date:    | Time: |
| MRC TAEP  | 11-26-13 | 16:30 | Alex TA                    | 11-26-13 | 0:00  |

## 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 Kjeldahl Nitrogen SM 4500 NORG C | Chloride EPA 300.0 | Total Dissolved Solids SM 2540 C MOD |
|------------------|----------------|----------------|--------------------|------------------------|-----------|-------------------------------|--|------------------|--|--------------------|--------------------------------------|
| Hold             |                |                |                    |                        |           |                               |  |                  |  |                    |                                      |
| Turn Around Time |                |                |                    |                        |           |                               |  |                  |  |                    |                                      |

Remarks: on ice  
LS 485 90249  
DL19

Dry Weight Basis Required  
TRRP Report Required



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298  
 200 East Sunset Road, Suite E El Paso, Texas 79922 915-585-3443 FAX 915-585-4944  
 5002 Basin Street, Suite A1 Midland, Texas 79703 432-689-6301 FAX 432-689-6313  
 (BioAquatic) 2501 Mayes Rd., Suite 100 Carrollton, Texas 75006 972-242-7750  
 E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

## Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

# Analytical and Quality Control Report

Isaac Dominguez  
 Dominguez Dairy #2  
 13600 Stern Drive  
 P. O. Box 21  
 Mesquite, NM, 88048

Report Date: December 13, 2013

Work Order: 13112636



Project Location: 13600 Stern Drive, Mesquite, NM  
 Project Name: Dominguez Dairy #2  
 Project #: 42

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 347572 | 42-12       | water  | 2013-11-26 | 14:09      | 2013-11-26    |
| 347573 | 42-13       | water  | 2013-11-26 | 09:32      | 2013-11-26    |
| 347574 | 42 Lagoon   | water  | 2013-11-26 | 09:14      | 2013-11-26    |

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

This report consists of a total of 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  
 Dr. Michael Abel, Project Manager

# Report Contents

|  |           |
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| <b>Analytical Report</b>                     | <b>4</b>  |
| Sample 347572 (42-12) . . . . .              | 4         |
| Sample 347573 (42-13) . . . . .              | 5         |
| Sample 347574 (42 Lagoon) . . . . .          | 6         |
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| QC Batch 107278 - Method Blank (1) . . . . . | 8         |
| QC Batch 107278 - Method Blank (1) . . . . . | 8         |
| QC Batch 107547 - Method Blank (1) . . . . . | 8         |
| QC Batch 107172 - Duplicate (1) . . . . .    | 9         |
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| QC Batch 107172 - LCS (1) . . . . .          | 10        |
| QC Batch 107278 - LCS (1) . . . . .          | 10        |
| QC Batch 107278 - LCS (1) . . . . .          | 10        |
| QC Batch 107547 - LCS (1) . . . . .          | 11        |
| QC Batch 107278 - MS (1) . . . . .           | 11        |
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| QC Batch 107278 - CCV (2) . . . . .          | 13        |
| QC Batch 107278 - CCV (3) . . . . .          | 13        |
| QC Batch 107278 - CCV (3) . . . . .          | 14        |
| QC Batch 107278 - CCV (4) . . . . .          | 14        |
| QC Batch 107278 - CCV (4) . . . . .          | 14        |
| QC Batch 107278 - CCV (5) . . . . .          | 14        |
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## Case Narrative

Samples for project Dominguez Dairy #2 were received by TraceAnalysis, Inc. on 2013-11-26 and assigned to work order 13112636. Samples for work order 13112636 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         | 90838      | 2013-11-26 at 18:56 | 107278   | 2013-11-26 at 18:56 |
| NO3 (IC)      | E 300.0         | 90838      | 2013-11-26 at 18:56 | 107278   | 2013-11-26 at 18:56 |
| TDS           | SM 2540C        | 90741      | 2013-11-29 at 14:30 | 107172   | 2013-11-29 at 14:30 |
| TKN           | SM 4500-NH3 B,C | 91054      | 2013-12-12 at 11:00 | 107547   | 2013-12-12 at 16:15 |

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13112636 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: 347572 - 42-12**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>341</b>      | <b>341</b>      | <6.78           | mg/L  | 10       | 6.78 | 2.5          | 0.678        |

**Sample: 347572 - 42-12**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | J | 1 | <b>1.95</b>     | <2.50           | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347572 - 42-12**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107172 Date Analyzed: 2013-11-29 Analyzed By: MC  
 Prep Batch: 90741 Sample Preparation: 2013-11-29 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>1160</b>     | <b>1160</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347572 - 42-12**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107547 Date Analyzed: 2013-12-12 Analyzed By: SAS  
 Prep Batch: 91054 Sample Preparation: 2013-12-12 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347573 - 42-13**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 107278      Date Analyzed: 2013-11-26      Analyzed By: JR  
 Prep Batch: 90838      Sample Preparation: 2013-11-26      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>895</b>   | <b>895</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347573 - 42-13**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 107278      Date Analyzed: 2013-11-26      Analyzed By: JR  
 Prep Batch: 90838      Sample Preparation: 2013-11-26      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>49.8</b>  | <b>49.8</b>  | <0.426       | mg/L  | 10       | 0.426 | 0.5          | 0.0426       |

**Sample: 347573 - 42-13**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 107172      Date Analyzed: 2013-11-29      Analyzed By: MC  
 Prep Batch: 90741      Sample Preparation: 2013-11-29      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 | <b>3260</b>  | <b>3260</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347573 - 42-13**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107547 Date Analyzed: 2013-12-12 Analyzed By: SAS  
 Prep Batch: 91054 Sample Preparation: 2013-12-12 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347574 - 42 Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>283</b>   | <b>283</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347574 - 42 Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107278 Date Analyzed: 2013-11-26 Analyzed By: JR  
 Prep Batch: 90838 Sample Preparation: 2013-11-26 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | U | 1 | <0.213       | <2.50        | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347574 - 42 Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107172 Date Analyzed: 2013-11-29 Analyzed By: MC  
 Prep Batch: 90741 Sample Preparation: 2013-11-29 Prepared By: MC

*continued . . .*

sample 347574 continued ...

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>4860</b>            | <b>4860</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347574 - 42 Lagoon**

Laboratory: Lubbock  
 Analysis: TKN  
 QC Batch: 107547  
 Prep Batch: 91054

Analytical Method: SM 4500-NH3 B,C  
 Date Analyzed: 2013-12-12  
 Sample Preparation: 2013-12-12

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

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <b>252</b>             | <b>252</b>             | <16.6                     | mg/L  | 10       | 16.6 | 10                  | 1.66                |

## Method Blanks

### Method Blank (1)

QC Batch: 107172  
Prep Batch: 90741Date Analyzed: 2013-11-29  
QC Preparation: 2013-11-29Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | 1.35   | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107547  
Prep Batch: 91054Date Analyzed: 2013-12-12  
QC Preparation: 2013-12-12Analyzed By: SAS  
Prepared By: SAS



Report Date: December 13, 2013

Work Order: 13112636  
Dominguez Dairy #2

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13600 Stern Drive, Mesquite, NM

---

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

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**Duplicate (1)** Duplicated Sample: 347569

QC Batch: 107172  
Prep Batch: 90741

Date Analyzed: 2013-11-29  
QC Preparation: 2013-11-29

Analyzed By: MC  
Prepared By: MC

---

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 2960             | 3030          | mg/L  | 1        | 2   | 10        |

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107172  
Prep Batch: 90741Date Analyzed: 2013-11-29  
QC Preparation: 2013-11-29Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 987           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 1010          | mg/L  | 1    | 1000            | <2.50            | 101  | 90 - 110      | 2   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 25.5          | mg/L  | 1    | 25.0            | <0.678           | 102  | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 25.4          | mg/L  | 1    | 25.0            | <0.678           | 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: 107278  
Prep Batch: 90838Date Analyzed: 2013-11-26  
QC Preparation: 2013-11-26Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 5.14          | mg/L  | 1    | 5.00            | <0.0426          | 103  | 90 - 110      |

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



| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 288          | mg/L  | 55.6 | 278             | <2.37            | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|-----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Nitrate-N |   | 1 | 289           | mg/L  | 55.6 | 278             | <2.37            | 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: 347569

QC Batch: 107547  
Prep Batch: 91054

Date Analyzed: 2013-12-12  
QC Preparation: 2013-12-12

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.8         | mg/L  | 1    | 50.0            | 2.8              | 98   | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|------------|--------------|----|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 2.8              | 99            | 58.1 - 115 | 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: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.5                   | 98                          | 90 - 110                      | 2013-11-26       |

### Standard (CCV-1)

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-11-26       |

### Standard (CCV-2)

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.6                   | 98                          | 90 - 110                      | 2013-11-26       |

### Standard (CCV-2)

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.01                   | 100                         | 90 - 110                      | 2013-11-26       |



**Standard (CCV-3)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-3)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.03                   | 101                         | 90 - 110                      | 2013-11-26       |

**Standard (CCV-4)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-4)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.05                   | 101                         | 90 - 110                      | 2013-11-26       |

**Standard (CCV-5)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-11-26       |

**Standard (CCV-5)**

QC Batch: 107278

Date Analyzed: 2013-11-26

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.04                   | 101                         | 90 - 110                      | 2013-11-26       |

**Standard (ICV-1)**

QC Batch: 107547

Date Analyzed: 2013-12-12

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 5.04                   | 101                         | 85 - 115                      | 2013-12-12       |

**Standard (CCV-1)**

QC Batch: 107547

Date Analyzed: 2013-12-12

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-12       |

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## Limits of Detection (LOD)

| Test          | Method          | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|-----------------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0         | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0         | water  | Dionex IC  | Nitrate-N                   | 0.126           | 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 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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.

156 McCutcheon, Ste. H  
 Paso, TX 79032  
 Tel (815) 585-3443  
 Fax (815) 585-4944


# TraceAnalysis, Inc.

Company Name: 156 McCutcheon, Ste. H  
 Phone #: 915-858-8150  
 Cell #: \_\_\_\_\_  
 D&H Petroleum & Environmental Services  
 Address: (Street, City, Zip)  
1221 Tower Trail Ln., El Paso, Texas 79907  
 Contact Person: vayala@dhpump.com  
 Victor Ayala

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

Project Location (including state):  
Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM

| LAB #     | Field Code       | # Containers | Volume/Amount | MATRIX |     |        | PRESERVATIVE METHOD |                  |                                |      |     | DATE            | SAMPLING TIME |
|-----------|------------------|--------------|---------------|--------|-----|--------|---------------------|------------------|--------------------------------|------|-----|-----------------|---------------|
|           |                  |              |               | WATER  | AIR | SLUDGE | HCl                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE |                 |               |
| <u>17</u> | <u>42-12</u>     | <u>1</u>     |               | X      |     |        |                     | X                | X                              | X    | X   | <u>11-26-13</u> | <u>1409</u>   |
| <u>17</u> | <u>42-12</u>     | <u>1</u>     |               | X      |     |        |                     | X                | X                              | X    | X   | <u>11-26-13</u> | <u>1409</u>   |
| <u>17</u> | <u>42-13</u>     | <u>1</u>     |               | X      |     |        |                     | X                | X                              | X    | X   | <u>11-26-13</u> | <u>9:32</u>   |
| <u>17</u> | <u>42-13</u>     | <u>1</u>     |               | X      |     |        |                     | X                | X                              | X    | X   | <u>11-26-13</u> | <u>9:32</u>   |
| <u>17</u> | <u>42 Lagoon</u> | <u>1</u>     |               | X      |     |        |                     | X                | X                              | X    | X   | <u>11-26-13</u> | <u>9:14</u>   |
| <u>17</u> | <u>42 Lagoon</u> | <u>1</u>     |               | X      |     |        |                     | X                | X                              | X    | X   | <u>11-26-13</u> | <u>9:14</u>   |

Relinquished By:  Date: 11-26-13 Time: 1553  
 Relinquished By: WRC TRP Date: 11-26-13 Time: 15:50  
 Received at Laboratory By: WRC TRP Date: 11-26-13 Time: 15:50  
 Received at Laboratory By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**ANALYSIS REQUEST**

|   |   |
|---|---|
| MTBE 8021B/602                                  |   |
| BTEX 8021B/602                                  |   |
| TPH 418.1 / TX1005                              |   |
| TX 1005 Extended (C35)                          |   |
| PAH 8270C                                       |   |
| PAH 8270 (Low Level Analysis)                   |   |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 601DB/2007 | X |
| Nitrates EPA 300                                | X |
| Total Kjeldahl Nitrogen SM 4500 NORG C          | X |
| Chloride EPA 300.0                              | X |
| Total Dissolved Solids SM 2540 C MOD            | X |

Remarks: on ice  
 Lab Use Only  
 Intact Y N  
 Headspace Y N  
 Temp 2 11  
 Log-in Review \_\_\_\_\_  
 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

Jerry Settles  
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 P.O. Box 1846  
 Anthony, NM, 88021

Report Date: December 16, 2013

Work Order: 13120329



DP: 692  
 Project Location: 1025 East OHara, Anthony, NM  
 Project Name: Del Oro Dairy

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 347809 | 692-02      | water  | 2013-12-03 | 13:04      | 2013-12-03    |
| 347810 | 692-04      | water  | 2013-12-03 | 13:19      | 2013-12-03    |
| 347811 | 692-06      | water  | 2013-12-03 | 10:59      | 2013-12-03    |
| 347812 | 692-Lagoon  | water  | 2013-12-03 | 11:12      | 2013-12-03    |

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 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.*

*Michael Abel*

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

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## Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2013-12-03 and assigned to work order 13120329. Samples for work order 13120329 were received intact at a temperature of 5.0 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         | 90866      | 2013-12-04 at 18:53 | 107309   | 2013-12-04 at 18:53 |
| NO3 (IC)      | E 300.0         | 90866      | 2013-12-04 at 18:53 | 107309   | 2013-12-04 at 18:53 |
| TDS           | SM 2540C        | 90872      | 2013-12-04 at 12:45 | 107319   | 2013-12-04 at 12:45 |
| TKN           | SM 4500-NH3 B,C | 91054      | 2013-12-12 at 11:00 | 107547   | 2013-12-12 at 16:15 |

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13120329 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: 347809 - 692-02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107309 Date Analyzed: 2013-12-04 Analyzed By: JR  
 Prep Batch: 90866 Sample Preparation: 2013-12-04 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>906</b>      | <b>906</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347809 - 692-02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107309 Date Analyzed: 2013-12-04 Analyzed By: JR  
 Prep Batch: 90866 Sample Preparation: 2013-12-04 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>108</b>      | <b>108</b>      | <2.13           | mg/L  | 50       | 2.13 | 0.5          | 0.0426       |

**Sample: 347809 - 692-02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107319 Date Analyzed: 2013-12-04 Analyzed By: MC  
 Prep Batch: 90872 Sample Preparation: 2013-12-04 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3520</b>     | <b>3520</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347809 - 692-02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107547 Date Analyzed: 2013-12-12 Analyzed By: SAS  
 Prep Batch: 91054 Sample Preparation: 2013-12-12 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347810 - 692-04**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107309                              Date Analyzed: 2013-12-04                      Analyzed By: JR  
 Prep Batch: 90866                              Sample Preparation: 2013-12-04                      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>646</b>   | <b>646</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347810 - 692-04**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107309                              Date Analyzed: 2013-12-04                      Analyzed By: JR  
 Prep Batch: 90866                              Sample Preparation: 2013-12-04                      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>43.5</b>  | <b>43.5</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347810 - 692-04**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 107319                              Date Analyzed: 2013-12-04                      Analyzed By: MC  
 Prep Batch: 90872                              Sample Preparation: 2013-12-04                      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 | <b>2490</b>  | <b>2490</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347810 - 692-04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107547 Date Analyzed: 2013-12-12 Analyzed By: SAS  
 Prep Batch: 91054 Sample Preparation: 2013-12-12 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347811 - 692-06**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107309 Date Analyzed: 2013-12-04 Analyzed By: JR  
 Prep Batch: 90866 Sample Preparation: 2013-12-04 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>470</b>   | <b>470</b>   | <6.78        | mg/L  | 10       | 6.78 | 2.5          | 0.678        |

**Sample: 347811 - 692-06**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107309 Date Analyzed: 2013-12-04 Analyzed By: JR  
 Prep Batch: 90866 Sample Preparation: 2013-12-04 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>3.70</b>  | <b>3.70</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347811 - 692-06**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107319 Date Analyzed: 2013-12-04 Analyzed By: MC  
 Prep Batch: 90872 Sample Preparation: 2013-12-04 Prepared By: MC

*continued . . .*

*sample 347811 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1470</b>            | <b>1470</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347811 - 692-06**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107547

Prep Batch: 91054

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-12-12

Sample Preparation: 2013-12-12

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 347812 - 692-Lagoon**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 107309

Prep Batch: 90866

Analytical Method: E 300.0

Date Analyzed: 2013-12-04

Sample Preparation: 2013-12-04

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-----|---------------------|---------------------|
| Chloride  |   | 1 | <b>4660</b>            | <b>4660</b>            | <339                      | mg/L  | 500      | 339 | 2.5                 | 0.678               |

**Sample: 347812 - 692-Lagoon**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 107309

Prep Batch: 90866

Analytical Method: E 300.0

Date Analyzed: 2013-12-04

Sample Preparation: 2013-12-04

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | u | 1 | <0.426                 | <5.00                  | <0.426                    | mg/L  | 10       | 0.426 | 0.5                 | 0.0426              |

**Sample: 347812 - 692-Lagoon**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107319 Date Analyzed: 2013-12-04 Analyzed By: MC  
 Prep Batch: 90872 Sample Preparation: 2013-12-04 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>23300</b>           | <b>23300</b>           | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347812 - 692-Lagoon**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107547 Date Analyzed: 2013-12-12 Analyzed By: SAS  
 Prep Batch: 91054 Sample Preparation: 2013-12-12 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <b>420</b>             | <b>420</b>             | <16.6                     | mg/L  | 10       | 16.6 | 10                  | 1.66                |



## Method Blanks

### Method Blank (1)

QC Batch: 107309  
Prep Batch: 90866Date Analyzed: 2013-12-04  
QC Preparation: 2013-12-04Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | 1.33   | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107309  
Prep Batch: 90866Date Analyzed: 2013-12-04  
QC Preparation: 2013-12-04Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107319  
Prep Batch: 90872Date Analyzed: 2013-12-04  
QC Preparation: 2013-12-04Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107547  
Prep Batch: 91054Date Analyzed: 2013-12-12  
QC Preparation: 2013-12-12Analyzed By: SAS  
Prepared By: SAS

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| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

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**Duplicate (1)** Duplicated Sample: 347811

QC Batch: 107319

Date Analyzed: 2013-12-04

Analyzed By: MC

Prep Batch: 90872

QC Preparation: 2013-12-04

Prepared By: MC

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| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 1500             | 1470          | mg/L  | 1        | 2   | 10        |

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107309  
Prep Batch: 90866Date Analyzed: 2013-12-04  
QC Preparation: 2013-12-04Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|          |   |   | Result | Units | Dil. |                 |                  |      |               |
| Chloride |   | 1 | 25.6   | mg/L  | 1    | 25.0            | <0.678           | 102  | 90 - 110      |

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

| Param    | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|          |   |   | Result | Units | Dil. |                 |                  |      |               |     |              |
| Chloride |   | 1 | 25.5   | mg/L  | 1    | 25.0            | <0.678           | 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: 107309  
Prep Batch: 90866Date Analyzed: 2013-12-04  
QC Preparation: 2013-12-04Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|           |   |   | Result | Units | Dil. |                 |                  |      |               |
| Nitrate-N |   | 1 | 5.14   | mg/L  | 1    | 5.00            | <0.0426          | 103  | 90 - 110      |

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

| Param     | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|           |   |   | Result | Units | Dil. |                 |                  |      |               |     |              |
| Nitrate-N |   | 1 | 5.12   | mg/L  | 1    | 5.00            | <0.0426          | 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: 107319  
Prep Batch: 90872Date Analyzed: 2013-12-04  
QC Preparation: 2013-12-04Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                        |   |   | Result | Units | Dil. |                 |                  |      |               |
| Total Dissolved Solids |   | 1 | 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 | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 288          | mg/L  | 55.6 | 278             | 3.7              | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|-----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Nitrate-N |   | 1 | 289           | mg/L  | 55.6 | 278             | 3.7              | 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: 347569

QC Batch: 107547  
Prep Batch: 91054

Date Analyzed: 2013-12-12  
QC Preparation: 2013-12-12

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.8         | mg/L  | 1    | 50.0            | 2.8              | 98   | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|------------|--------------|----|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 2.8              | 99            | 58.1 - 115 | 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: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.9                   | 100                         | 90 - 110                      | 2013-12-04       |

### Standard (CCV-1)

QC Batch: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-12-04       |

### Standard (CCV-2)

QC Batch: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-12-04       |

### Standard (CCV-2)

QC Batch: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-12-04       |

**Standard (CCV-3)**

QC Batch: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.1                   | 100                         | 90 - 110                      | 2013-12-04       |

**Standard (CCV-3)**

QC Batch: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.03                   | 101                         | 90 - 110                      | 2013-12-04       |

**Standard (ICV-1)**

QC Batch: 107547

Date Analyzed: 2013-12-12

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 5.04                   | 101                         | 85 - 115                      | 2013-12-12       |

**Standard (CCV-1)**

QC Batch: 107547

Date Analyzed: 2013-12-12

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-12       |

---

## Limits of Detection (LOD)

| Test          | Method          | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|-----------------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0         | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0         | water  | Dionex IC  | Nitrate-N                   | 0.126           | 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 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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

Jerry Settles  
Del Oro Dairy, LLC.  
1025 East O'Hara  
P.O. Box 1846  
Anthony, NM, 88021

Report Date: December 30, 2013

Work Order: 13120455



DP: 692  
Project Location: 1025 East OHara, Anthony, NM  
Project Name: Del Oro Dairy

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

| Sample | Description | Matrix | Date Taken | Time Taken | Date Received |
|--------|-------------|--------|------------|------------|---------------|
| 347954 | 692-01      | water  | 2013-12-04 | 12:10      | 2013-12-04    |
| 347955 | 692-05      | water  | 2013-12-04 | 13:22      | 2013-12-04    |
| 347956 | 692-07      | water  | 2013-12-04 | 12:57      | 2013-12-04    |
| 347957 | 692-08      | water  | 2013-12-04 | 11:21      | 2013-12-04    |
| 347958 | 692-09      | water  | 2013-12-04 | 14:02      | 2013-12-04    |

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.*

*Michael Abel*

---

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

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## Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2013-12-04 and assigned to work order 13120455. Samples for work order 13120455 were received intact at a temperature of 4 C.

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

| Test          | Method          | Prep<br>Batch | Prep<br>Date        | QC<br>Batch | Analysis<br>Date    |
|---------------|-----------------|---------------|---------------------|-------------|---------------------|
| Chloride (IC) | E 300.0         | 90866         | 2013-12-04 at 18:53 | 107309      | 2013-12-04 at 18:53 |
| Chloride (IC) | E 300.0         | 90867         | 2013-12-05 at 01:05 | 107310      | 2013-12-05 at 01:05 |
| NO3 (IC)      | E 300.0         | 90866         | 2013-12-04 at 18:53 | 107309      | 2013-12-04 at 18:53 |
| NO3 (IC)      | E 300.0         | 90867         | 2013-12-05 at 01:05 | 107310      | 2013-12-05 at 01:05 |
| TDS           | SM 2540C        | 90947         | 2013-12-09 at 12:30 | 107416      | 2013-12-09 at 12:30 |
| TKN           | SM 4500-NH3 B,C | 91124         | 2013-12-17 at 10:30 | 107643      | 2013-12-17 at 15:30 |

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 13120455 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: 347954 - 692-01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107309 Date Analyzed: 2013-12-04 Analyzed By: JR  
 Prep Batch: 90866 Sample Preparation: 2013-12-04 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>706</b>      | <b>706</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347954 - 692-01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107309 Date Analyzed: 2013-12-04 Analyzed By: JR  
 Prep Batch: 90866 Sample Preparation: 2013-12-04 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>2.57</b>     | <b>2.57</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347954 - 692-01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107416 Date Analyzed: 2013-12-09 Analyzed By: MC  
 Prep Batch: 90947 Sample Preparation: 2013-12-09 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>2840</b>     | <b>2840</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347954 - 692-01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107643 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91124 Sample Preparation: 2013-12-17 Prepared By: SAS

| Parameter                   | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>7.00</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347955 - 692-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107310 Date Analyzed: 2013-12-05 Analyzed By: JR  
 Prep Batch: 90867 Sample Preparation: 2013-12-05 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>437</b>      | <b>437</b>      | <6.78           | mg/L  | 10       | 6.78 | 2.5          | 0.678        |

**Sample: 347955 - 692-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107310 Date Analyzed: 2013-12-05 Analyzed By: JR  
 Prep Batch: 90867 Sample Preparation: 2013-12-05 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>4.05</b>     | <b>4.05</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347955 - 692-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107416 Date Analyzed: 2013-12-09 Analyzed By: MC  
 Prep Batch: 90947 Sample Preparation: 2013-12-09 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>1360</b>     | <b>1360</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347955 - 692-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107643 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91124 Sample Preparation: 2013-12-17 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 347956 - 692-07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107310 Date Analyzed: 2013-12-05 Analyzed By: JR  
 Prep Batch: 90867 Sample Preparation: 2013-12-05 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>581</b>   | <b>581</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 347956 - 692-07**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107310 Date Analyzed: 2013-12-05 Analyzed By: JR  
 Prep Batch: 90867 Sample Preparation: 2013-12-05 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>4.26</b>  | <b>4.26</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347956 - 692-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107416 Date Analyzed: 2013-12-09 Analyzed By: MC  
 Prep Batch: 90947 Sample Preparation: 2013-12-09 Prepared By: MC

*continued . . .*

*sample 347956 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1600</b>            | <b>1600</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347956 - 692-07**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107643

Prep Batch: 91124

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-12-17

Sample Preparation: 2013-12-17

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 347957 - 692-08**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 107310

Prep Batch: 90867

Analytical Method: E 300.0

Date Analyzed: 2013-12-05

Sample Preparation: 2013-12-05

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>456</b>             | <b>456</b>             | <6.78                     | mg/L  | 10       | 6.78 | 2.5                 | 0.678               |

**Sample: 347957 - 692-08**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 107310

Prep Batch: 90867

Analytical Method: E 300.0

Date Analyzed: 2013-12-05

Sample Preparation: 2013-12-05

Prep Method: N/A

Analyzed By: JR

Prepared By: JR



| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>3.22</b>            | <b>3.22</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 347957 - 692-08**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107416 Date Analyzed: 2013-12-09 Analyzed By: MC  
 Prep Batch: 90947 Sample Preparation: 2013-12-09 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1320</b>            | <b>1320</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 347957 - 692-08**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107643 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91124 Sample Preparation: 2013-12-17 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | U | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 347958 - 692-09**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107310 Date Analyzed: 2013-12-05 Analyzed By: JR  
 Prep Batch: 90867 Sample Preparation: 2013-12-05 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>465</b>             | <b>465</b>             | <6.78                     | mg/L  | 10       | 6.78 | 2.5                 | 0.678               |

**Sample: 347958 - 692-09**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107310 Date Analyzed: 2013-12-05 Analyzed By: JR  
 Prep Batch: 90867 Sample Preparation: 2013-12-05 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>3.43</b>     | <b>3.43</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 347958 - 692-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107416 Date Analyzed: 2013-12-09 Analyzed By: MC  
 Prep Batch: 90947 Sample Preparation: 2013-12-09 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>1440</b>     | <b>1440</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 347958 - 692-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107643 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91124 Sample Preparation: 2013-12-17 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

## Method Blanks

### Method Blank (1)

QC Batch: 107309  
Prep Batch: 90866Date Analyzed: 2013-12-04  
QC Preparation: 2013-12-04Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | 1.33   | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107309  
Prep Batch: 90866Date Analyzed: 2013-12-04  
QC Preparation: 2013-12-04Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107310  
Prep Batch: 90867Date Analyzed: 2013-12-05  
QC Preparation: 2013-12-05Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | 1.32   | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107310  
Prep Batch: 90867Date Analyzed: 2013-12-05  
QC Preparation: 2013-12-05Analyzed By: JR  
Prepared By: JR











**Matrix Spike (MS-1)** Spiked Sample: 347758QC Batch: 107310  
Prep Batch: 90867Date Analyzed: 2013-12-05  
QC Preparation: 2013-12-05Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 1900         | mg/L  | 55.6 | 1390            | 465              | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 1890          | mg/L  | 55.6 | 1390            | 465              | 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: 347758QC Batch: 107310  
Prep Batch: 90867Date Analyzed: 2013-12-05  
QC Preparation: 2013-12-05Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 286          | mg/L  | 55.6 | 278             | 3.43             | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 284           | mg/L  | 55.6 | 278             | 3.43             | 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: 348390QC Batch: 107643  
Prep Batch: 91124Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 55.3         | mg/L  | 1    | 50.0            | 6.3              | 98   | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 53.9          | mg/L  | 1    | 50.0            | 6.3              | 95   | 58.1 - 115    | 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: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.9                   | 100                         | 90 - 110                      | 2013-12-04       |

## Standard (CCV-1)

QC Batch: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-12-04       |

## Standard (CCV-2)

QC Batch: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.0                   | 100                         | 90 - 110                      | 2013-12-04       |

## Standard (CCV-2)

QC Batch: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.00                   | 100                         | 90 - 110                      | 2013-12-04       |

**Standard (CCV-3)**

QC Batch: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.1                   | 100                         | 90 - 110                      | 2013-12-04       |

**Standard (CCV-3)**

QC Batch: 107309

Date Analyzed: 2013-12-04

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.03                   | 101                         | 90 - 110                      | 2013-12-04       |

**Standard (CCV-1)**

QC Batch: 107310

Date Analyzed: 2013-12-05

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 25.1                   | 100                         | 90 - 110                      | 2013-12-05       |

**Standard (CCV-1)**

QC Batch: 107310

Date Analyzed: 2013-12-05

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 5.03                   | 101                         | 90 - 110                      | 2013-12-05       |

**Standard (CCV-2)**

QC Batch: 107310

Date Analyzed: 2013-12-05

Analyzed By: JR



| Param    | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|---|---|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Chloride |   | 1 | mg/L  | 25.0            | 25.2             | 101                   | 90 - 110                | 2013-12-05    |

**Standard (CCV-2)**

QC Batch: 107310

Date Analyzed: 2013-12-05

Analyzed By: JR

| Param     | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-----------|---|---|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Nitrate-N |   | 1 | mg/L  | 5.00            | 5.04             | 101                   | 90 - 110                | 2013-12-05    |

**Standard (CCV-3)**

QC Batch: 107310

Date Analyzed: 2013-12-05

Analyzed By: JR

| Param    | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|----------|---|---|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Chloride |   | 1 | mg/L  | 25.0            | 25.1             | 100                   | 90 - 110                | 2013-12-05    |

**Standard (CCV-3)**

QC Batch: 107310

Date Analyzed: 2013-12-05

Analyzed By: JR

| Param     | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-----------|---|---|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Nitrate-N |   | 1 | mg/L  | 5.00            | 5.04             | 101                   | 90 - 110                | 2013-12-05    |

**Standard (ICV-1)**

QC Batch: 107643

Date Analyzed: 2013-12-17

Analyzed By: SAS

| Param                       | F | C | Units | CCVs True Conc. | CCVs Found Conc. | CCVs Percent Recovery | Percent Recovery Limits | Date Analyzed |
|-----------------------------|---|---|-------|-----------------|------------------|-----------------------|-------------------------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00            | 4.48             | 90                    | 85 - 115                | 2013-12-17    |

**Standard (CCV-1)**

QC Batch: 107643

Date Analyzed: 2013-12-17

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 5.04                   | 101                         | 85 - 115                      | 2013-12-17       |

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## Limits of Detection (LOD)

| Test          | Method          | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|-----------------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0         | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0         | water  | Dionex IC  | Nitrate-N                   | 0.126           | 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 |

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# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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.

1320455

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  
E-mail: vajala@dhpump.com

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

Invoice to (if different from above):  
Del Oro Dairy, PO Box 1846, Anthony, TX 88021  
Project #:   
Project Name: Del Oro Dairy  
Sampler Signature:   
Project Location (including state):  
Del Oro Dairy, 1025 East O'Hara, Anthony, NM

155 McCutcheon, Ste. H El Paso, TX 79992  
Tel (915) 585-3443  
Fax (915) 585-4944

Page 1 of 1  
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 1320455

| LAB #     | Field Code | # Containers | Volume/Amount | MATRIX | PRESERVATIVE METHOD | DATE    | SAMPLING TIME | TPH 418.1 / TX1005 | BTEX 8021B/602 | MTBE 8021B/602 | TX 1005 Extended (C35) | PAH 8270C | PAH 8270 (Low Level Analysis) | Total Metals Ag As BA Cd Cr Pb Se Hg 6010B/200.7 | Nitrate as Nitrogen EPA 300.0 | Chloride EPA Method 300.0 | Sulfate EPA Method 300.0 | Total Dissolved Solids SM 2540 C MOD | Total Kjeldahl Nitrogen SM 4500 NORG C | Phosphorus SM 4500 | Turn Around Time | Hold |
|-----------|------------|--------------|---------------|--------|---------------------|---------|---------------|--------------------|----------------|----------------|------------------------|-----------|-------------------------------|--|-------------------------------|---------------------------|--------------------------|--------------------------------------|--|--------------------|------------------|------|
| 347954-1  | 692-01     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:10         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-2  | 692-01     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:10         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-3  | 692-02     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:10         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-4  | 692-02     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:10         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-5  | 692-04     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:10         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-6  | 692-04     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:10         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-7  | 692-05     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:10         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-8  | 692-05     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:10         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-9  | 692-06     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:10         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-10 | 692-06     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:10         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-11 | 692-07     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:57         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-12 | 692-07     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 12:57         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-13 | 692-08     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 11:21         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-14 | 692-08     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 11:21         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-15 | 692-09     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 14:02         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |
| 347954-16 | 692-09     | 1            | 250ml         | WATER  | HNO <sub>3</sub>    | 12/4/17 | 14:02         |                    |                |                |                        |           |                               | X  | X                             | X                         | X                        | X                                    | X                                      | X                  |                  |      |

Relinquished By: [Signature] Date: 12/4/17 Time: 14:23  
 Relinquished By: [Signature] Date: 12/5/17 Time: 9:05  
 Received at Laboratory By: [Signature] Date: 12-4-17 Time: 14:25  
 Received By: [Signature] Date: 12-4-17 Time: 14:02  
 Lab Use Only: Intact  / In   
 Headspace  / Y  / N   
 Temp  / 4 / 19  
 Log-in Review  / Y  / N   
 Remarks: 13/20 on 200  
 13/20 CUL TQS / 1003  
 13/20 485 10255  
 Dry Weight Basis Required  
 TRRP Report Required  
 12-4-17



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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 30, 2013

P.O. Box 10  
 Mesquite, NM, 88048

Work Order: 13121227



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 |
|--------|-------------|--------|------------|------------|---------------|
| 348692 | DAD-18      | water  | 2013-12-12 | 11:08      | 2013-12-12    |
| 348693 | DAD-05      | water  | 2013-12-12 | 09:53      | 2013-12-12    |
| 348694 | DAD-17      | water  | 2013-12-12 | 09:31      | 2013-12-12    |
| 348695 | DAD-16      | water  | 2013-12-12 | 11:52      | 2013-12-12    |
| 348696 | DAD-08      | water  | 2013-12-12 | 12:16      | 2013-12-12    |
| 348697 | DAD-19      | water  | 2013-12-12 | 13:38      | 2013-12-12    |

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 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

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



*Blair Leftwich*

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

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## Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2013-12-12 and assigned to work order 13121227. Samples for work order 13121227 were received intact at a temperature of 6 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         | 91167      | 2013-12-13 at 14:18 | 107696   | 2013-12-13 at 14:18 |
| NO3 (IC)      | E 300.0         | 91167      | 2013-12-13 at 14:18 | 107696   | 2013-12-13 at 14:18 |
| TDS           | SM 2540C        | 91092      | 2013-12-16 at 13:00 | 107603   | 2013-12-16 at 13:00 |
| TKN           | SM 4500-NH3 B,C | 91236      | 2013-12-19 at 10:30 | 107778   | 2013-12-19 at 15:30 |

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 13121227 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: 348692 - DAD-18**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107696 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91167 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>719</b>      | <b>719</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 348692 - DAD-18**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107696 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91167 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>11.8</b>     | <b>11.8</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 348692 - DAD-18**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107603 Date Analyzed: 2013-12-16 Analyzed By: MC  
 Prep Batch: 91092 Sample Preparation: 2013-12-16 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>2840</b>     | <b>2840</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 348692 - DAD-18**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107778 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91236 Sample Preparation: 2013-12-19 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 348693 - DAD-05**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107696 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91167 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>72.9</b>  | <b>72.9</b>  | <3.39        | mg/L  | 5        | 3.39 | 2.5          | 0.678        |

**Sample: 348693 - DAD-05**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107696 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91167 Sample Preparation: 2013-12-13 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 | 1 | <b>0.898</b> | <2.50        | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 348693 - DAD-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107603 Date Analyzed: 2013-12-16 Analyzed By: MC  
 Prep Batch: 91092 Sample Preparation: 2013-12-16 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 | <b>695</b>   | <b>695</b>   | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 348693 - DAD-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107778 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91236 Sample Preparation: 2013-12-19 Prepared By: SAS

| Parameter                   | F | C | SDL         | SQL   | Method | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-------------|-------|--------|-------|----------|------|--------------|--------------|
|                             |   |   | Based       | Based | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b> | <10.0 | <1.66  | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 348694 - DAD-17**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107696 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91167 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL        | SQL        | Method | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|------------|------------|--------|-------|----------|------|--------------|--------------|
|           |   |   | Based      | Based      | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>412</b> | <b>412</b> | <6.78  | mg/L  | 10       | 6.78 | 2.5          | 0.678        |

**Sample: 348694 - DAD-17**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107696 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91167 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL         | SQL   | Method | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-------------|-------|--------|-------|----------|-------|--------------|--------------|
|           |   |   | Based       | Based | Blank  |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | J | 1 | <b>2.45</b> | <2.50 | <0.213 | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 348694 - DAD-17**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107603 Date Analyzed: 2013-12-16 Analyzed By: MC  
 Prep Batch: 91092 Sample Preparation: 2013-12-16 Prepared By: MC

*continued . . .*



*sample 348694 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1640</b>            | <b>1640</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348694 - DAD-17**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107778

Prep Batch: 91236

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-12-19

Sample Preparation: 2013-12-19

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 348695 - DAD-16**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 107696

Prep Batch: 91167

Analytical Method: E 300.0

Date Analyzed: 2013-12-13

Sample Preparation: 2013-12-13

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>561</b>             | <b>561</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 348695 - DAD-16**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 107696

Prep Batch: 91167

Analytical Method: E 300.0

Date Analyzed: 2013-12-13

Sample Preparation: 2013-12-13

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | J | 1 | <b>1.28</b>            | <2.50                  | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 348695 - DAD-16**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107603 Date Analyzed: 2013-12-16 Analyzed By: MC  
 Prep Batch: 91092 Sample Preparation: 2013-12-16 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2210</b>            | <b>2210</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348695 - DAD-16**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107778 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91236 Sample Preparation: 2013-12-19 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 348696 - DAD-08**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107696 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91167 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>2500</b>            | <b>2500</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 348696 - DAD-08**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107696 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91167 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>70.7</b>     | <b>70.7</b>     | <0.426          | mg/L  | 10       | 0.426 | 0.5          | 0.0426       |

**Sample: 348696 - DAD-08**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107603 Date Analyzed: 2013-12-16 Analyzed By: MC  
 Prep Batch: 91092 Sample Preparation: 2013-12-16 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>6780</b>     | <b>6780</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 348696 - DAD-08**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107778 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91236 Sample Preparation: 2013-12-19 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 348697 - DAD-19**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107696 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91167 Sample Preparation: 2013-12-13 Prepared By: JR

*continued ...*

sample 348697 continued ...

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>930</b>             | <b>930</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 348697 - DAD-19**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107696 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91167 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>48.9</b>            | <b>48.9</b>            | <0.426                    | mg/L  | 10       | 0.426 | 0.5                 | 0.0426              |

**Sample: 348697 - DAD-19**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107603 Date Analyzed: 2013-12-16 Analyzed By: MC  
 Prep Batch: 91092 Sample Preparation: 2013-12-16 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3240</b>            | <b>3240</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348697 - DAD-19**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107778 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91236 Sample Preparation: 2013-12-19 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

## Method Blanks

### Method Blank (1)

QC Batch: 107603  
Prep Batch: 91092Date Analyzed: 2013-12-16  
QC Preparation: 2013-12-16Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107696  
Prep Batch: 91167Date Analyzed: 2013-12-13  
QC Preparation: 2013-12-13Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107696  
Prep Batch: 91167Date Analyzed: 2013-12-13  
QC Preparation: 2013-12-13Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107778  
Prep Batch: 91236Date Analyzed: 2013-12-19  
QC Preparation: 2013-12-19Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Duplicate (1)** Duplicated Sample: 348697

QC Batch: 107603  
 Prep Batch: 91092

Date Analyzed: 2013-12-16  
 QC Preparation: 2013-12-16

Analyzed By: MC  
 Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3240             | 3240          | mg/L  | 1        | 0   | 10        |



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107603  
Prep Batch: 91092Date Analyzed: 2013-12-16  
QC Preparation: 2013-12-16Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 985           | mg/L  | 1    | 1000            | <2.50            | 98   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 985           | mg/L  | 1    | 1000            | <2.50            | 98   | 90 - 110      | 0   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107696  
Prep Batch: 91167Date Analyzed: 2013-12-13  
QC Preparation: 2013-12-13Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.1          | mg/L  | 1    | 25.0            | <0.678           | 96   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 23.9          | mg/L  | 1    | 25.0            | <0.678           | 96   | 90 - 110      | 1   | 20           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107696  
Prep Batch: 91167Date Analyzed: 2013-12-13  
QC Preparation: 2013-12-13Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 4.84          | mg/L  | 1    | 5.00            | <0.0426          | 97   | 90 - 110      |

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



| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 269          | mg/L  | 55.6 | 278             | <2.37            | 96   | 80 - 120      |

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

| Param     | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|
| Nitrate-N |   | 1 | 270           | mg/L  | 55.6 | 278             | <2.37            | 97            | 80 - 120 | 0            |

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

**Matrix Spike (MS-1)** Spiked Sample: 348762

QC Batch: 107778  
 Prep Batch: 91236

Date Analyzed: 2013-12-19  
 QC Preparation: 2013-12-19

Analyzed By: SAS  
 Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 50.4         | mg/L  | 1    | 50.0            | <1.66            | 101  | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|------------|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.8          | mg/L  | 1    | 50.0            | <1.66            | 104           | 58.1 - 115 | 3            |

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: 107696

Date Analyzed: 2013-12-13

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.5                   | 94                          | 90 - 110                      | 2013-12-13       |

### Standard (CCV-1)

QC Batch: 107696

Date Analyzed: 2013-12-13

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.75                   | 95                          | 90 - 110                      | 2013-12-13       |

### Standard (CCV-2)

QC Batch: 107696

Date Analyzed: 2013-12-13

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.7                   | 95                          | 90 - 110                      | 2013-12-13       |

### Standard (CCV-2)

QC Batch: 107696

Date Analyzed: 2013-12-13

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.79                   | 96                          | 90 - 110                      | 2013-12-13       |

**Standard (CCV-3)**

QC Batch: 107696

Date Analyzed: 2013-12-13

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.7                   | 95                          | 90 - 110                      | 2013-12-13       |

**Standard (CCV-3)**

QC Batch: 107696

Date Analyzed: 2013-12-13

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.83                   | 97                          | 90 - 110                      | 2013-12-13       |

**Standard (ICV-1)**

QC Batch: 107778

Date Analyzed: 2013-12-19

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.34                   | 87                          | 85 - 115                      | 2013-12-19       |

**Standard (CCV-1)**

QC Batch: 107778

Date Analyzed: 2013-12-19

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-19       |

---

## 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                   | 0.126        | 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 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | Lubbock             |

## Standard Flags

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

## Attachments

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

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

200 East Sunset Rd., Suite E  
El Paso, Texas 79922  
Tel (915) 886-3443  
Fax (915) 885-4944

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

Company Name: **DH PETROLEUM + ENVIRONMENTAL** Phone #: **915-857-8150**

Address: **1221 TOWER TRAIL LN, EL PASO, TX, 79907** Fax #:

Contact Person: **VICTOR AYVA** E-mail: **VAYALAC@DHPUMP.COM**

Invoice to: **DONA ANA DAIRIES CONSOBIUM** **LINDA ARMSTRONG 575-233-3620**

Project #: **429539** Project Name: **DONA ANA DAIRIES**

Project Location: **(include state) VARIOUS DAIRIES, DONA ANA COUNTY, NM** Sampler Signature: *[Signature]*

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | SAMPLING |       |       |
|-------------------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|-------|-------|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCL                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE  | DATE  |
| 348692-1                | DAD-18     | 1            | 250           |        |      |     |        | X                   |                  |                                | X    | X        | 12/2  | 11:00 |
| J-2                     | DAD-18     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 11:08 |       |
| 693-1                   | DAD-05     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 9:53  |       |
| J-2                     | DAD-05     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 9:59  |       |
| 694-1                   | DAD-17     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 9:31  |       |
| J-2                     | DAD-17     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 9:31  |       |
| 695-1                   | DAD-14     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 11:52 |       |
| J-2                     | DAD-14     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 11:52 |       |
| 696-1                   | DAD-08     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 12:14 |       |
| J-2                     | DAD-08     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 12:14 |       |

Relinquished by: **JAV** Company: **D+H** Date: **12-12-13** Time: **14:30** Received by: **WRE** Company: **TAEP** Date: **12-23-13** Time: **14:30**

Relinquished by: **WRE** Company: **TAEP** Date: **12-14-13** Time: **11:00** Received by: **[Signature]** Company: **TA** Date: **12-14-13** Time: **14:30**

Relinquished by: **WRE** Company: **TAEP** Date: **12-13-13** Time: **9:30** Received by: **[Signature]** Company: **TA** Date: **12-13-13** Time: **3:9**

INST 1: **14:30** OBS 1: **5.0**

INST 2: **14:30** OBS 2: **3.9**

INST 3: **9:30** OBS 3: **3.8**

LAB USE ONLY

TPH 418.1 / TX1005 / DRO / TVHC  
PAH 8270C / 625  
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7  
TCLP Metals Ag As Ba Cd Cr Pb Se Hg  
TCLP Volatiles  
TCLP Semi Volatiles  
RCI  
GC/MS Vol. 8260B / 624  
GC/MS Semi. Vol. 8270C/625  
PCBs 8082 / 608  
Pesticides 8081A / 608  
BOD, TSS, PH  
Moisture Content  
total kjeldahl nitrogen SM 4500 NORG C  
Nitrate EPA 300.0  
Chloride EPA 300.0  
Total Dissolved Solids SM 2540 C MOD  
Turn Around Time if different from standard

REMARKS: **on ice**  
**TKN subblock**  
 Dry Weight Basis Required  
 TRRP Report Required  
 Check If Special Reporting Limits Are Needed

Carrier # **CONN** **TA 15** **485-988-805**

Submittal of samples constitutes agreement to Terms and Conditions

ORIGINAL COPY

# TraceAnalysis, Inc.

6701 Aberdeen Ave, Ste 9  
Lubbock, Texas 79424  
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BioAqualic Testing  
2501 Mayes Rd., Ste 100  
Carrollton, Texas 75006  
Tel (972) 242-7750

email: lab@traceanalysis.com

Company Name: **D & H PETROLEUM - ENVIRONMENTAL**  
 Address: **1221 Tower Trail Ln, El Paso, TX 79907**  
 Contact Person: **VICTOR AYALA**  
 Invoice to: **DONA ANA DAIRIES CONSORTIUM**  
 Project #: **429539**  
 Phone #: **915-859-8150**  
 Fax #:   
 E-mail: **VAYANA@DANIMP.COM**  
 Project Name: **DONA ANA DAIRIES**

Project Location: **(include state)**  
**VARIOUS DAIRIES DONA ANA COUNTY, NM**  
 Sampler Signature: *[Signature]*

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |     |      |        | PRESERVATIVE METHOD |                  |                                |      | SAMPLING |      |          |       |
|-------------------------|------------|--------------|---------------|--------|-----|------|--------|---------------------|------------------|--------------------------------|------|----------|------|----------|-------|
|                         |            |              |               | WATER  | AIR | SOIL | SLUDGE | HCL                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE | DATE     | TIME  |
| 348097-1                | DAD-19     | 1            | 250           |        |     |      | X      |                     |                  |                                | X    |          |      | 12-12-13 | 15:30 |
| J-2                     | DAD-19     | 1            | 250           |        |     |      |        |                     |                  |                                | X    |          |      | 12-12-13 | 15:30 |
|                         |            |              |               |        |     |      |        |                     |                  |                                |      |          |      |          |       |

Relinquished by: **guy** Date: **12-13-13** Time: **14:30** Company: **D&H**  
 Received by: **MRE** Date: **12-13-13** Time: **14:30** Company: **TAEP**  
 Relinquished by: **MRE** Date: **12-13-13** Time: **16:30** Company: **TAEP**  
 Received by: **[Signature]** Date: **12-13-13** Time: **13:39** Company: **TAEP**

**ANALYSIS REQUEST**  
(Circle or Specify Method No.)

|  |      |
|--|------|
| MTBE 8021B / 602 / 8260B / 624                     |      |
| BTEX 8021B / 602 / 8260B / 624                     |      |
| TPH 418.1 / TX1005 / DRO / TVHC                    |      |
| PAH 8270C / 625                                    |      |
| Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7 |      |
| TCLP Metals Ag As Ba Cd Cr Pb Se Hg                |      |
| TCLP Volatiles                                     |      |
| TCLP Semi Volatiles                                |      |
| TCLP Pesticides                                    |      |
| RCI  |      |
| G/MS Vol. 8260B / 624                              |      |
| G/MS Semi. Vol. 8270C/625                          |      |
| PCBs 8082 / 608                                    |      |
| Pesticides 8081A / 608                             |      |
| BOD, TSS, pH                                       |      |
| Moisture Content                                   |      |
| Total kjeldhal nitrogen SM 4500 NORG C             | X    |
| Nitrate EPA 300.0                                  | X    |
| Chloride EPA 300.0                                 | X    |
| Total Dissolved Solids SM 2540 C MOD               | X    |
| Turn Around Time if different from standard        | Hold |

LAB USE ONLY  
 Intact  Y/N  
 Headspace Y/N/NA  
 Log for Report  B-13  
 Carrier # **Carry in 25-48590262**

REMARKS: **ON ICE**  
**TKN in Lubbock**  
 Dry Weight Basis Required  
 TRRP Report Required  
 Check if Special Reporting Limits Are Needed **(2)**



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 30, 2013

Work Order: 13121013



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 |
|--------|-------------|--------|------------|------------|---------------|
| 348386 | 167-01A     | water  | 2013-12-10 | 11:15      | 2013-12-10    |
| 348387 | 167-03      | water  | 2013-12-10 | 12:41      | 2013-12-10    |
| 348388 | 167-04      | water  | 2013-12-10 | 12:55      | 2013-12-10    |
| 348389 | 167-05      | water  | 2013-12-10 | 13:43      | 2013-12-10    |
| 348390 | 167-06      | water  | 2013-12-10 | 09:48      | 2013-12-10    |
| 348391 | 167-07      | water  | 2013-12-10 | 10:38      | 2013-12-10    |
| 348392 | 167-09      | water  | 2013-12-10 | 13:21      | 2013-12-10    |
| 348393 | 167-Lagoon  | water  | 2013-12-10 | 10:46      | 2013-12-10    |

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

This report consists of a total of 28 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

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

*Blair Leftwich*

---

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

# Report Contents

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| Sample 348388 (167-04) . . . . .             | 8         |
| Sample 348389 (167-05) . . . . .             | 9         |
| Sample 348390 (167-06) . . . . .             | 10        |
| Sample 348391 (167-07) . . . . .             | 11        |
| Sample 348392 (167-09) . . . . .             | 13        |
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| <b>Method Blanks</b>                         | <b>16</b> |
| QC Batch 107523 - Method Blank (1) . . . . . | 16        |
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| QC Batch 107643 - Method Blank (1) . . . . . | 16        |
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| QC Batch 107694 - Method Blank (1) . . . . . | 17        |
| QC Batch 107778 - Method Blank (1) . . . . . | 17        |
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| QC Batch 107644 - LCS (1) . . . . .          | 19        |
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## Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2013-12-10 and assigned to work order 13121013. Samples for work order 13121013 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         | 91033      | 2013-12-10 at 18:39 | 107523   | 2013-12-10 at 18:39 |
| NO3 (IC)      | E 300.0         | 91165      | 2013-12-11 at 18:40 | 107694   | 2013-12-11 at 18:40 |
| TDS           | SM 2540C        | 91037      | 2013-12-12 at 11:30 | 107531   | 2013-12-12 at 11:30 |
| TKN           | E 351.3         | 91127      | 2013-12-17 at 10:30 | 107644   | 2013-12-17 at 16:30 |
| TKN           | SM 4500-NH3 B,C | 91124      | 2013-12-17 at 10:30 | 107643   | 2013-12-17 at 15:30 |
| TKN           | SM 4500-NH3 B,C | 91236      | 2013-12-19 at 10:30 | 107778   | 2013-12-19 at 15:30 |

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 13121013 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: 348386 - 167-01A**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107523 Date Analyzed: 2013-12-10 Analyzed By: JR  
 Prep Batch: 91033 Sample Preparation: 2013-12-10 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>643</b>             | <b>643</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 348386 - 167-01A**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107694 Date Analyzed: 2013-12-11 Analyzed By: JR  
 Prep Batch: 91165 Sample Preparation: 2013-12-11 Prepared By: JR

| Parameter | F | C     | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|-------|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | 1 | H,J 1 | <b>2.35</b>            | <2.50                  | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 348386 - 167-01A**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107531 Date Analyzed: 2013-12-12 Analyzed By: MC  
 Prep Batch: 91037 Sample Preparation: 2013-12-12 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2720</b>            | <b>2720</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348386 - 167-01A**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107643 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91124 Sample Preparation: 2013-12-17 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 348387 - 167-03**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107523                              Date Analyzed: 2013-12-10                      Analyzed By: JR  
 Prep Batch: 91033                              Sample Preparation: 2013-12-10                      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>578</b>   | <b>578</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 348387 - 167-03**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107694                              Date Analyzed: 2013-12-11                      Analyzed By: JR  
 Prep Batch: 91165                              Sample Preparation: 2013-12-11                      Prepared By: JR

| Parameter | F | C   | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|-----|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |     | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | 2 | H 1 | <b>17.6</b>  | <b>17.6</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 348387 - 167-03**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 107531                              Date Analyzed: 2013-12-12                      Analyzed By: MC  
 Prep Batch: 91037                              Sample Preparation: 2013-12-12                      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 | <b>2310</b>  | <b>2310</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 348387 - 167-03**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107643 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91124 Sample Preparation: 2013-12-17 Prepared By: SAS

| Parameter                   | F | C | SDL   | SQL   | Method | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-------|-------|--------|-------|----------|------|--------------|--------------|
|                             |   |   | Based | Based | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | U | 2 | <1.66 | <10.0 | <1.66  | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 348388 - 167-04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107523 Date Analyzed: 2013-12-10 Analyzed By: JR  
 Prep Batch: 91033 Sample Preparation: 2013-12-10 Prepared By: JR

| Parameter | F | C | SDL         | SQL         | Method | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-------------|-------------|--------|-------|----------|------|--------------|--------------|
|           |   |   | Based       | Based       | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1190</b> | <b>1190</b> | <33.9  | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 348388 - 167-04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107694 Date Analyzed: 2013-12-11 Analyzed By: JR  
 Prep Batch: 91165 Sample Preparation: 2013-12-11 Prepared By: JR

| Parameter | F | C   | SDL         | SQL         | Method | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|-----|-------------|-------------|--------|-------|----------|-------|--------------|--------------|
|           |   |     | Based       | Based       | Blank  |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | 3 | H 1 | <b>23.8</b> | <b>23.8</b> | <0.213 | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 348388 - 167-04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107531 Date Analyzed: 2013-12-12 Analyzed By: MC  
 Prep Batch: 91037 Sample Preparation: 2013-12-12 Prepared By: MC

*continued . . .*

*sample 348388 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>4070</b>            | <b>4070</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348388 - 167-04**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107643

Prep Batch: 91124

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2013-12-17

Sample Preparation: 2013-12-17

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 348389 - 167-05**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 107523

Prep Batch: 91033

Analytical Method: E 300.0

Date Analyzed: 2013-12-10

Sample Preparation: 2013-12-10

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>886</b>             | <b>886</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 348389 - 167-05**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 107694

Prep Batch: 91165

Analytical Method: E 300.0

Date Analyzed: 2013-12-11

Sample Preparation: 2013-12-11

Prep Method: N/A

Analyzed By: JR

Prepared By: JR



| Parameter | F            | C   | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units  | Dilution | SDL | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |        |
|-----------|--------------|-----|------------------------|------------------------|---------------------------|--------|----------|-----|---------------------|---------------------|--------|
| Nitrate-N | <sup>4</sup> | H,J | 1                      | <b>1.58</b>            | <2.50                     | <0.213 | mg/L     | 5   | 0.213               | 0.5                 | 0.0426 |

**Sample: 348389 - 167-05**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107531 Date Analyzed: 2013-12-12 Analyzed By: MC  
 Prep Batch: 91037 Sample Preparation: 2013-12-12 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3290</b>            | <b>3290</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348389 - 167-05**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107643 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91124 Sample Preparation: 2013-12-17 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 348390 - 167-06**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107523 Date Analyzed: 2013-12-10 Analyzed By: JR  
 Prep Batch: 91033 Sample Preparation: 2013-12-10 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>744</b>             | <b>744</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 348390 - 167-06**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107694 Date Analyzed: 2013-12-11 Analyzed By: JR  
 Prep Batch: 91165 Sample Preparation: 2013-12-11 Prepared By: JR

| Parameter | F | C | SDL   | MQL         | Method      | Units  | Dilution | SDL | MQL          | MDL          |        |
|-----------|---|---|-------|-------------|-------------|--------|----------|-----|--------------|--------------|--------|
|           |   |   | Based | Based       | Blank       |        |          |     | (Unadjusted) | (Unadjusted) |        |
| Nitrate-N | 5 | H | 1     | <b>20.8</b> | <b>20.8</b> | <0.213 | mg/L     | 5   | 0.213        | 0.5          | 0.0426 |

**Sample: 348390 - 167-06**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107531 Date Analyzed: 2013-12-12 Analyzed By: MC  
 Prep Batch: 91037 Sample Preparation: 2013-12-12 Prepared By: MC

| Parameter              | F | C | SDL   | MQL         | Method      | Units | Dilution | SDL | MQL          | MDL          |     |
|------------------------|---|---|-------|-------------|-------------|-------|----------|-----|--------------|--------------|-----|
|                        |   |   | Based | Based       | Blank       |       |          |     | (Unadjusted) | (Unadjusted) |     |
| Total Dissolved Solids |   |   | 1     | <b>2740</b> | <b>2740</b> | <2.50 | mg/L     | 1   | 2.50         | 2.5          | 2.5 |

**Sample: 348390 - 167-06**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107643 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91124 Sample Preparation: 2013-12-17 Prepared By: SAS

| Parameter                   | F | C | SDL   | MQL         | Method | Units | Dilution | SDL | MQL          | MDL          |      |
|-----------------------------|---|---|-------|-------------|--------|-------|----------|-----|--------------|--------------|------|
|                             |   |   | Based | Based       | Blank  |       |          |     | (Unadjusted) | (Unadjusted) |      |
| Total Kjeldahl Nitrogen - N | J |   | 2     | <b>6.30</b> | <10.0  | <1.66 | mg/L     | 1   | 1.66         | 10           | 1.66 |

**Sample: 348391 - 167-07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107523 Date Analyzed: 2013-12-10 Analyzed By: JR  
 Prep Batch: 91033 Sample Preparation: 2013-12-10 Prepared By: JR

*continued ...*

sample 348391 continued ...

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>233</b>             | <b>233</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 348391 - 167-07**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107694 Date Analyzed: 2013-12-11 Analyzed By: JR  
 Prep Batch: 91165 Sample Preparation: 2013-12-11 Prepared By: JR

| Parameter | F | C     | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|-------|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | 6 | H,J 1 | <b>0.960</b>           | <2.50                  | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 348391 - 167-07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107531 Date Analyzed: 2013-12-12 Analyzed By: MC  
 Prep Batch: 91037 Sample Preparation: 2013-12-12 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1770</b>            | <b>1770</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348391 - 167-07**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107778 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91236 Sample Preparation: 2013-12-19 Prepared By: SAS

| Parameter                   | F | C   | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|-----|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N |   | J 2 | <b>6.30</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 348392 - 167-09**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107523 Date Analyzed: 2013-12-10 Analyzed By: JR  
 Prep Batch: 91033 Sample Preparation: 2013-12-10 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>777</b>             | <b>777</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 348392 - 167-09**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107694 Date Analyzed: 2013-12-11 Analyzed By: JR  
 Prep Batch: 91165 Sample Preparation: 2013-12-11 Prepared By: JR

| Parameter | F | C   | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|-----|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | 7 | H 1 | <b>3.82</b>            | <b>3.82</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 348392 - 167-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107531 Date Analyzed: 2013-12-12 Analyzed By: MC  
 Prep Batch: 91037 Sample Preparation: 2013-12-12 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2980</b>            | <b>2980</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348392 - 167-09**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107644 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91127 Sample Preparation: 2013-12-17 Prepared By: SAS

*continued ...*

sample 348392 continued ...

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>4.90</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 348393 - 167-Lagoon**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107523                              Date Analyzed: 2013-12-10                      Analyzed By: JR  
 Prep Batch: 91033                              Sample Preparation: 2013-12-10                      Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>3160</b>            | <b>3160</b>            | <67.8                     | mg/L  | 100      | 67.8 | 2.5                 | 0.678               |

**Sample: 348393 - 167-Lagoon**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107694                              Date Analyzed: 2013-12-11                      Analyzed By: JR  
 Prep Batch: 91165                              Sample Preparation: 2013-12-11                      Prepared By: JR

| Parameter | F | C     | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|-------|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | 8 | H,J 1 | <b>3.20</b>            | <5.00                  | <0.426                    | mg/L  | 10       | 0.426 | 0.5                 | 0.0426              |

**Sample: 348393 - 167-Lagoon**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 107531                              Date Analyzed: 2013-12-12                      Analyzed By: MC  
 Prep Batch: 91037                              Sample Preparation: 2013-12-12                      Prepared By: MC

| Parameter              | F | C | SDL          | SQL          | Method | Units | Dilution | SDL          | SQL          | MDL |
|------------------------|---|---|--------------|--------------|--------|-------|----------|--------------|--------------|-----|
|                        |   |   | Based        | Based        | Blank  |       |          | (Unadjusted) | (Unadjusted) |     |
|                        |   |   | Result       | Result       | Result |       |          |              |              |     |
| Total Dissolved Solids |   | 1 | <b>13900</b> | <b>13900</b> | <2.50  | mg/L  | 1        | 2.50         | 2.5          | 2.5 |

**Sample: 348393 - 167-Lagoon**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107644

Prep Batch: 91127

Analytical Method: E 351.3

Date Analyzed: 2013-12-17

Sample Preparation: 2013-12-17

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL        | SQL        | Method | Units | Dilution | SDL          | SQL          | MDL  |
|-----------------------------|---|---|------------|------------|--------|-------|----------|--------------|--------------|------|
|                             |   |   | Based      | Based      | Blank  |       |          | (Unadjusted) | (Unadjusted) |      |
|                             |   |   | Result     | Result     | Result |       |          |              |              |      |
| Total Kjeldahl Nitrogen - N |   | 2 | <b>210</b> | <b>210</b> | <16.6  | mg/L  | 10       | 16.6         | 10           | 1.66 |



## Method Blanks

### Method Blank (1)

QC Batch: 107523  
Prep Batch: 91033Date Analyzed: 2013-12-10  
QC Preparation: 2013-12-10Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107531  
Prep Batch: 91037Date Analyzed: 2013-12-12  
QC Preparation: 2013-12-12Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107643  
Prep Batch: 91124Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

### Method Blank (1)

QC Batch: 107644  
Prep Batch: 91127Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Method Blank (1)**

QC Batch: 107694                      Date Analyzed: 2013-12-11                      Analyzed By: JR  
 Prep Batch: 91165                      QC Preparation: 2013-12-11                      Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

**Method Blank (1)**

QC Batch: 107778                      Date Analyzed: 2013-12-19                      Analyzed By: SAS  
 Prep Batch: 91236                      QC Preparation: 2013-12-19                      Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Duplicate (2)**    Duplicated Sample: 348529

QC Batch: 107531                      Date Analyzed: 2013-12-12                      Analyzed By: MC  
 Prep Batch: 91037                      QC Preparation: 2013-12-12                      Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 2370             | 2270          | mg/L  | 1        | 4   | 10        |

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107523  
Prep Batch: 91033Date Analyzed: 2013-12-10  
QC Preparation: 2013-12-10Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|          |   |   | Result | Units | Dil. |                 |                  |      |               |
| Chloride |   | 1 | 24.8   | mg/L  | 1    | 25.0            | <0.678           | 99   | 90 - 110      |

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

| Param    | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|          |   |   | Result | Units | Dil. |                 |                  |      |               |     |              |
| Chloride |   | 1 | 24.8   | mg/L  | 1    | 25.0            | <0.678           | 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: 107531  
Prep Batch: 91037Date Analyzed: 2013-12-12  
QC Preparation: 2013-12-12Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                        |   |   | Result | Units | Dil. |                 |                  |      |               |
| Total Dissolved Solids |   | 1 | 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.

| Param                  | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|                        |   |   | Result | Units | Dil. |                 |                  |      |               |     |              |
| Total Dissolved Solids |   | 1 | 988    | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      | 1   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107643  
Prep Batch: 91124Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                             |   |   | Result | Units | Dil. |                 |                  |      |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 46.9   | mg/L  | 1    | 50.0            | <1.66            | 94   | 79.2 - 115    |

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





**Matrix Spike (MS-1)** Spiked Sample: 348526QC Batch: 107644  
Prep Batch: 91127Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS     |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|
|                             |   |   | Result | Units |      |              |               |      |            |
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5   | mg/L  | 1    | 50.0         | 2.8           | 99   | 41.1 - 118 |

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

| Param                       | F | C | MSD    |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
|                             |   |   | Result | Units |      |              |               |      |            |     |           |
| Total Kjeldahl Nitrogen - N |   | 2 | 51.8   | mg/L  | 1    | 50.0         | 2.8           | 98   | 41.1 - 118 | 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: 348391QC Batch: 107694  
Prep Batch: 91165Date Analyzed: 2013-12-11  
QC Preparation: 2013-12-11Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS     |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------|---|---|--------|-------|------|--------------|---------------|------|------------|
|           |   |   | Result | Units |      |              |               |      |            |
| Nitrate-N |   | 1 | 28.7   | mg/L  | 5.56 | 27.8         | 0.96          | 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 | 27.8   | mg/L  | 5.56 | 27.8         | 0.96          | 96   | 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: 348762QC Batch: 107778  
Prep Batch: 91236Date Analyzed: 2013-12-19  
QC Preparation: 2013-12-19Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS     |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|
|                             |   |   | Result | Units |      |              |               |      |            |
| Total Kjeldahl Nitrogen - N |   | 2 | 50.4   | mg/L  | 1    | 50.0         | <1.66         | 101  | 58.1 - 115 |

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

| Param                       | F | C | MSD    |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
|                             |   |   | Result | Units |      |              |               |      |            |     |           |
| Total Kjeldahl Nitrogen - N |   | 2 | 51.8   | mg/L  | 1    | 50.0         | <1.66         | 104  | 58.1 - 115 | 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: 107523

Date Analyzed: 2013-12-10

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.7                   | 99                          | 90 - 110                      | 2013-12-10       |

### Standard (CCV-2)

QC Batch: 107523

Date Analyzed: 2013-12-10

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-12-10       |

### Standard (CCV-3)

QC Batch: 107523

Date Analyzed: 2013-12-10

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-12-10       |

### Standard (CCV-4)

QC Batch: 107523

Date Analyzed: 2013-12-10

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.8                   | 99                          | 90 - 110                      | 2013-12-10       |

**Standard (ICV-1)**

QC Batch: 107643

Date Analyzed: 2013-12-17

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.48                   | 90                          | 85 - 115                      | 2013-12-17       |

**Standard (CCV-1)**

QC Batch: 107643

Date Analyzed: 2013-12-17

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 5.04                   | 101                         | 85 - 115                      | 2013-12-17       |

**Standard (ICV-1)**

QC Batch: 107644

Date Analyzed: 2013-12-17

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.62                   | 92                          | 85 - 115                      | 2013-12-17       |

**Standard (CCV-1)**

QC Batch: 107644

Date Analyzed: 2013-12-17

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-17       |

**Standard (CCV-1)**

QC Batch: 107694

Date Analyzed: 2013-12-11

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.78                   | 96                          | 90 - 110                      | 2013-12-11       |

**Standard (CCV-2)**

QC Batch: 107694

Date Analyzed: 2013-12-11

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.88                   | 98                          | 90 - 110                      | 2013-12-11       |

**Standard (ICV-1)**

QC Batch: 107778

Date Analyzed: 2013-12-19

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.34                   | 87                          | 85 - 115                      | 2013-12-19       |

**Standard (CCV-1)**

QC Batch: 107778

Date Analyzed: 2013-12-19

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-19       |

---

## 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                   | 0.126        | Pass |
| TDS           | SM 2540C        | water  | N/A        | Total Dissolved Solids      | 0.00         | -    |
| TKN           | E 351.3         | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00         | Pass |
| TKN           | SM 4500-NH3 B,C | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00         | Pass |

---

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| 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 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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   |

## Result Comments

- 1 Nitrate re-run due to previous QC issues done on 12-10-13. Nitrate value was 2.37 mg/L.



- 2 Nitrate re-run due to previous QC issues done on 12-10-13. Nitrate value was 17.9 mg/L.
- 3 Nitrate re-run due to previous QC issues done on 12-10-13. Nitrate value was 23.9 mg/L.
- 4 Nitrate re-run due to previous QC issues done on 12-10-13. Nitrate value was 1.54 mg/L.
- 5 Nitrate re-run due to previous QC issues done on 12-10-13. Nitrate value was 21.2 mg/L.
- 6 Nitrate re-run due to previous QC issues done on 12-10-13. Nitrate value was .908 mg/L.
- 7 Nitrate re-run due to previous QC issues done on 12-10-13. Nitrate value was 3.77 mg/L.
- 8 Nitrate re-run due to previous QC issues done on 12-10-13. Nitrate value was 2.85 mg/L.

## 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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## 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 30, 2013

P.O. Box 10  
 Mesquite, NM, 88048

Work Order: 13121137



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 |
|--------|-------------|--------|------------|------------|---------------|
| 348525 | DAD - 01    | water  | 2013-12-11 | 10:47      | 2013-12-11    |
| 348526 | DAD - 02    | water  | 2013-12-11 | 11:24      | 2013-12-11    |
| 348527 | DAD - 03    | water  | 2013-12-11 | 12:03      | 2013-12-11    |
| 348528 | DAD - 04    | water  | 2013-12-11 | 12:31      | 2013-12-11    |
| 348529 | DAD - 07    | water  | 2013-12-11 | 13:36      | 2013-12-11    |

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 21 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

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

*Michael Abel*

---

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

# Report Contents

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## Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2013-12-11 and assigned to work order 13121137. Samples for work order 13121137 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  | 91166      | 2013-12-13 at 12:01 | 107695   | 2013-12-13 at 12:01 |
| NO3 (IC)      | E 300.0  | 91166      | 2013-12-13 at 12:01 | 107695   | 2013-12-13 at 12:01 |
| TDS           | SM 2540C | 91037      | 2013-12-12 at 11:30 | 107531   | 2013-12-12 at 11:30 |
| TKN           | E 351.3  | 91127      | 2013-12-17 at 10:30 | 107644   | 2013-12-17 at 16:30 |
| TKN           | E 351.3  | 91239      | 2013-12-19 at 10:30 | 107783   | 2013-12-19 at 16:15 |

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 13121137 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: 348525 - DAD - 01**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>471</b>      | <b>471</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 348525 - DAD - 01**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>7.61</b>     | <b>7.61</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 348525 - DAD - 01**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107531 Date Analyzed: 2013-12-12 Analyzed By: MC  
 Prep Batch: 91037 Sample Preparation: 2013-12-12 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>1760</b>     | <b>1760</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 348525 - DAD - 01**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107644 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91127 Sample Preparation: 2013-12-17 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 348526 - DAD - 02**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>443</b>   | <b>443</b>   | <6.78        | mg/L  | 10       | 6.78 | 2.5          | 0.678        |

**Sample: 348526 - DAD - 02**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 Sample Preparation: 2013-12-13 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 | <b>7.91</b>  | <b>7.91</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 348526 - DAD - 02**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107531 Date Analyzed: 2013-12-12 Analyzed By: MC  
 Prep Batch: 91037 Sample Preparation: 2013-12-12 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 | <b>1540</b>  | <b>1540</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 348526 - DAD - 02**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107644 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91127 Sample Preparation: 2013-12-17 Prepared By: SAS

| Parameter                   | F | C | SDL         | SQL   | Method | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-------------|-------|--------|-------|----------|------|--------------|--------------|
|                             |   |   | Based       | Based | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b> | <10.0 | <1.66  | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 348527 - DAD - 03**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL        | SQL        | Method | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|------------|------------|--------|-------|----------|------|--------------|--------------|
|           |   |   | Based      | Based      | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>932</b> | <b>932</b> | <33.9  | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 348527 - DAD - 03**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL    | SQL   | Method | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|--------|-------|--------|-------|----------|-------|--------------|--------------|
|           |   |   | Based  | Based | Blank  |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N | U | 1 | <0.213 | <2.50 | <0.213 | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 348527 - DAD - 03**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107531 Date Analyzed: 2013-12-12 Analyzed By: MC  
 Prep Batch: 91037 Sample Preparation: 2013-12-12 Prepared By: MC

*continued . . .*

sample 348527 continued ...

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3180</b>            | <b>3180</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348527 - DAD - 03**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107783 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91239 Sample Preparation: 2013-12-19 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 348528 - DAD - 04**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>604</b>             | <b>604</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 348528 - DAD - 04**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | J | 1 | <b>1.69</b>            | <2.50                  | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 348528 - DAD - 04**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107531 Date Analyzed: 2013-12-12 Analyzed By: MC  
 Prep Batch: 91037 Sample Preparation: 2013-12-12 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2400</b>            | <b>2400</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348528 - DAD - 04**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107783 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91239 Sample Preparation: 2013-12-19 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | U | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 348529 - DAD - 07**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>700</b>             | <b>700</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 348529 - DAD - 07**



Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>7.94</b>     | <b>7.94</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 348529 - DAD - 07**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107531 Date Analyzed: 2013-12-12 Analyzed By: MC  
 Prep Batch: 91037 Sample Preparation: 2013-12-12 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>2270</b>     | <b>2270</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 348529 - DAD - 07**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A  
 QC Batch: 107783 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91239 Sample Preparation: 2013-12-19 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | U | 2 | <1.66           | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

## Method Blanks

### Method Blank (1)

QC Batch: 107531  
Prep Batch: 91037Date Analyzed: 2013-12-12  
QC Preparation: 2013-12-12Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107644  
Prep Batch: 91127Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

### Method Blank (1)

QC Batch: 107695  
Prep Batch: 91166Date Analyzed: 2013-12-13  
QC Preparation: 2013-12-13Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | 1.50   | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107695  
Prep Batch: 91166Date Analyzed: 2013-12-13  
QC Preparation: 2013-12-13Analyzed By: JR  
Prepared By: JR



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107531  
Prep Batch: 91037Date Analyzed: 2013-12-12  
QC Preparation: 2013-12-12Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 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.

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 988           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      | 1   | 10           |

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

## Laboratory Control Spike (LCS-2)

QC Batch: 107531  
Prep Batch: 91037Date Analyzed: 2013-12-12  
QC Preparation: 2013-12-12Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 938           | mg/L  | 1    | 1000            | <2.50            | 94   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 989           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      | 5   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107644  
Prep Batch: 91127Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 49.7          | mg/L  | 1    | 50.0            | <1.66            | 99   | 75.5 - 115    |

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



| Param                       | F | C | LCS    |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|
|                             |   |   | Result | Units |      |              |               |      |            |
| Total Kjeldahl Nitrogen - N |   | 2 | 46.9   | mg/L  | 1    | 50.0         | <1.66         | 94   | 75.5 - 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 | 49.0   | mg/L  | 1    | 50.0         | <1.66         | 98   | 75.5 - 115 | 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: 348526

QC Batch: 107644 Date Analyzed: 2013-12-17 Analyzed By: SAS  
 Prep Batch: 91127 QC Preparation: 2013-12-17 Prepared By: SAS

| Param                       | F | C | MS     |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|
|                             |   |   | Result | Units |      |              |               |      |            |
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5   | mg/L  | 1    | 50.0         | 2.8           | 99   | 41.1 - 118 |

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

| Param                       | F | C | MSD    |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
|                             |   |   | Result | Units |      |              |               |      |            |     |           |
| Total Kjeldahl Nitrogen - N |   | 2 | 51.8   | mg/L  | 1    | 50.0         | 2.8           | 98   | 41.1 - 118 | 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: 348526

QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 QC Preparation: 2013-12-13 Prepared By: JR

| Param    | F | C | MS     |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|----------|---|---|--------|-------|------|--------------|---------------|------|------------|
|          |   |   | Result | Units |      |              |               |      |            |
| Chloride |   | 1 | 1980   | mg/L  | 55.6 | 1390         | 443           | 110  | 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 | 1970   | mg/L  | 55.6 | 1390         | 443           | 110  | 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: 348526

QC Batch: 107695 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91166 QC Preparation: 2013-12-13 Prepared By: JR

| Param     | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Nitrate-N |   | 1 | 307       | mg/L  | 55.6 | 278          | 7.91          | 108  | 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 | 305        | mg/L  | 55.6 | 278          | 7.91          | 107  | 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: 348527

QC Batch: 107783 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91239 QC Preparation: 2013-12-19 Prepared By: SAS

| Param                       | F | C | MS Result | Units | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------------|---|---|-----------|-------|------|--------------|---------------|------|------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.1      | mg/L  | 1    | 50.0         | <1.66         | 102  | 41.1 - 118 |

Percent recovery is based on the spike 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 | 49.0       | mg/L  | 1    | 50.0         | <1.66         | 98   | 41.1 - 118 | 4   | 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: 107644

Date Analyzed: 2013-12-17

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.62                   | 92                          | 85 - 115                      | 2013-12-17       |

### Standard (CCV-1)

QC Batch: 107644

Date Analyzed: 2013-12-17

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2013-12-17       |

### Standard (CCV-1)

QC Batch: 107695

Date Analyzed: 2013-12-13

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.5                   | 98                          | 90 - 110                      | 2013-12-13       |

### Standard (CCV-1)

QC Batch: 107695

Date Analyzed: 2013-12-13

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.95                   | 99                          | 90 - 110                      | 2013-12-13       |



| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.48                   | 90                          | 85 - 115                      | 2013-12-19       |

**Standard (CCV-1)**

QC Batch: 107783

Date Analyzed: 2013-12-19

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.90                   | 98                          | 85 - 115                      | 2013-12-19       |

---

## Limits of Detection (LOD)

| Test          | Method   | Matrix | Instrument | Analyte                     | Spike<br>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           | E 351.3  | water  | N/A        | Total Kjeldahl Nitrogen - N | 5.00            | Pass |

---

# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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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Carrollton, Texas 75006  
Tel (972) 242-7750

Company Name: **D-H PETROLEUM + ENVIRONMENTAL SERVICES**  
Address: **1221 TOWER TRAIL LN. EL PASO, TX 79907**  
Contact Person: **VICTOR AYALA**

Phone #: **915-859-8150**  
Fax #: **VAYALA@DHPUMP.COM**  
E-mail: **VAYALA@DHPUMP.COM**

Invoice to: **DONA ANA DAIRIES CONSORTIUM**  
Project #: **429539**

Project Name: **DONA ANA DAIRIES**  
Sampler Signature: *[Signature]*

Project Location: **(include state) DONA ANA COUNTY, NM**

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | DATE | SAMPLING TIME |       |
|-------------------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|------|---------------|-------|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCL                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH |      |               | ICE   |
| 348525-1                | DAD-01     | 1            | 250           | X      |      |     |        | X                   |                  | X                              |      |      | 12-21         | 10:01 |
| 26-1                    | DAD-01     | 1            |               |        |      |     |        | X                   |                  | X                              |      |      | 12-21         | 11:01 |
| 4-2                     | DAD-02     | 1            |               |        |      |     |        | X                   |                  |                                |      |      | 12-21         | 12:11 |
| 27-1                    | DAD-03     | 1            |               |        |      |     |        | X                   |                  |                                |      |      | 12-21         | 12:21 |
| 1-2                     | DAD-03     | 1            |               |        |      |     |        | X                   |                  |                                |      |      | 12-21         | 13:01 |
| 28-1                    | DAD-04     | 1            |               |        |      |     |        | X                   |                  |                                |      |      | 12-21         | 13:21 |
| 1-2                     | DAD-04     | 1            |               |        |      |     |        | X                   |                  |                                |      |      | 12-21         | 13:31 |
| 29-1                    | DAD-07     | 1            |               |        |      |     |        | X                   |                  |                                |      |      | 12-21         | 13:41 |
| 1-2                     | DAD-07     | 1            |               |        |      |     |        | X                   |                  |                                |      |      | 12-21         | 13:51 |

## ANALYSIS REQUEST (Circle or Specify Method No.)

|                          |  |
|--------------------------|--|
| <input type="checkbox"/> | MTBE 8021B / 602 / 8260B / 624                     |
| <input type="checkbox"/> | BTEX 8021B / 602 / 8260B / 624                     |
| <input type="checkbox"/> | TPH 418.1 / TX1005 / DRO / TVHC                    |
| <input type="checkbox"/> | PAH 8270C / 625                                    |
| <input type="checkbox"/> | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7 |
| <input type="checkbox"/> | TCLP Metals Ag As Ba Cd Cr Pb Se Hg                |
| <input type="checkbox"/> | TCLP Volatiles                                     |
| <input type="checkbox"/> | TCLP Semi Volatiles                                |
| <input type="checkbox"/> | TCLP Pesticides                                    |
| <input type="checkbox"/> | RCI  |
| <input type="checkbox"/> | GC/MS Vol. 8260B / 624                             |
| <input type="checkbox"/> | GC/MS Semi. Vol. 8270C/625                         |
| <input type="checkbox"/> | PCBs 8082 / 608                                    |
| <input type="checkbox"/> | Pesticides 8081A / 608                             |
| <input type="checkbox"/> | BOD, TSS, pH                                       |
| <input type="checkbox"/> | Moisture Content                                   |
| <input type="checkbox"/> | Total kjelhal nitrogen SM 4500 NORG C              |
| <input type="checkbox"/> | Nitrate EPA 300.0                                  |
| <input type="checkbox"/> | Chloride EPA 300.0                                 |
| <input type="checkbox"/> | Total Dissolved Solids SM 2540 C MOD               |
| <input type="checkbox"/> | Turn Around Time if different from standard        |

REMARKS: **C1, N03, TPI m-ED**

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

LAB USE ONLY  
infect  YIN  
Headspace Y/N/INA  
DOH 12-11-13  
Log-in Review  
Carrier # **CC-9 EN 75-48590-261**

Relinquished by: *[Signature]* Company: **D-H** Date: **12-11-13** Time: **14:18**

Received by: *[Signature]* Company: **THETA** Date: **12-11-13** Time: **14:13**

Relinquished by: *[Signature]* Company: **THETA** Date: **12-11-13** Time: **16:30**

Received by: *[Signature]* Company: **THETA** Date: **12-11-13** Time: **14:13**

Relinquished by: *[Signature]* Company: **THETA** Date: **12-11-13** Time: **14:13**

Received by: *[Signature]* Company: **THETA** Date: **12-11-13** Time: **14:13**



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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: January 3, 2014

P.O. Box 10  
Mesquite, NM, 88048

Work Order: 13121317



Project Name: Dona Ana Dairies  
Project Number: 429539

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 |
|--------|-------------|--------|------------|------------|---------------|
| 348761 | DAD-22      | water  | 2013-12-13 | 12:18      | 2013-12-13    |
| 348762 | DAD-14      | water  | 2013-12-13 | 11:29      | 2013-12-13    |
| 348763 | DAD-13      | water  | 2013-12-13 | 10:32      | 2013-12-13    |
| 348764 | DAD-12      | water  | 2013-12-13 | 09:59      | 2013-12-13    |

## Notes

- **Work Order 13121317:** Results due in 10 business days: Estimated date 12/27/2013

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

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

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

*Michael Abel*

---

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

# Report Contents

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| Sample 348763 (DAD-13) . . . . .             | 7         |
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## Case Narrative

Samples for project Dona Ana Dairies were received by TraceAnalysis, Inc. on 2013-12-13 and assigned to work order 13121317. Samples for work order 13121317 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         | 91168      | 2013-12-13 at 21:25 | 107697   | 2013-12-13 at 21:25 |
| NO3 (IC)      | E 300.0         | 91168      | 2013-12-13 at 21:25 | 107697   | 2013-12-13 at 21:25 |
| TDS           | SM 2540C        | 91131      | 2013-12-17 at 14:00 | 107648   | 2013-12-17 at 14:00 |
| TKN           | SM 4500-NH3 B,C | 91236      | 2013-12-19 at 10:30 | 107778   | 2013-12-19 at 15:30 |
| TKN           | SM 4500-NH3 B,C | 91393      | 2014-01-02 at 11:30 | 107986   | 2014-01-02 at 16:30 |

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 13121317 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: 348761 - DAD-22

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107697 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91168 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>909</b>             | <b>909</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

## Sample: 348761 - DAD-22

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107697 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91168 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>6.35</b>            | <b>6.35</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

## Sample: 348761 - DAD-22

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107648 Date Analyzed: 2013-12-17 Analyzed By: MC  
 Prep Batch: 91131 Sample Preparation: 2013-12-17 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2440</b>            | <b>2440</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

## Sample: 348761 - DAD-22

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107778 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91236 Sample Preparation: 2013-12-19 Prepared By: SAS



| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66        | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 348762 - DAD-14**

Laboratory: El Paso  
 Analysis: Chloride (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 107697      Date Analyzed: 2013-12-13      Analyzed By: JR  
 Prep Batch: 91168      Sample Preparation: 2013-12-13      Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>929</b>   | <b>929</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 348762 - DAD-14**

Laboratory: El Paso  
 Analysis: NO3 (IC)      Analytical Method: E 300.0      Prep Method: N/A  
 QC Batch: 107697      Date Analyzed: 2013-12-13      Analyzed By: JR  
 Prep Batch: 91168      Sample Preparation: 2013-12-13      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 | <b>31.9</b>  | <b>31.9</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 348762 - DAD-14**

Laboratory: El Paso  
 Analysis: TDS      Analytical Method: SM 2540C      Prep Method: N/A  
 QC Batch: 107648      Date Analyzed: 2013-12-17      Analyzed By: MC  
 Prep Batch: 91131      Sample Preparation: 2013-12-17      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 | <b>3160</b>  | <b>3160</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 348762 - DAD-14**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107778 Date Analyzed: 2013-12-19 Analyzed By: SAS  
 Prep Batch: 91236 Sample Preparation: 2013-12-19 Prepared By: SAS

| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66        | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 348763 - DAD-13**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107697 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91168 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>546</b>   | <b>546</b>   | <33.9        | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 348763 - DAD-13**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107697 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91168 Sample Preparation: 2013-12-13 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 | <b>5.83</b>  | <b>5.83</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 348763 - DAD-13**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107648 Date Analyzed: 2013-12-17 Analyzed By: MC  
 Prep Batch: 91131 Sample Preparation: 2013-12-17 Prepared By: MC

*continued . . .*

sample 348763 continued ...

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | 1940                   | 1940                   | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348763 - DAD-13**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107986 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91393 Sample Preparation: 2014-01-02 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 348764 - DAD-12**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107697 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91168 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | 638                    | 638                    | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 348764 - DAD-12**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107697 Date Analyzed: 2013-12-13 Analyzed By: JR  
 Prep Batch: 91168 Sample Preparation: 2013-12-13 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>18.5</b>            | <b>18.5</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 348764 - DAD-12**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107648 Date Analyzed: 2013-12-17 Analyzed By: MC  
 Prep Batch: 91131 Sample Preparation: 2013-12-17 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2840</b>            | <b>2840</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 348764 - DAD-12**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107986 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91393 Sample Preparation: 2014-01-02 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

## Method Blanks

### Method Blank (1)

QC Batch: 107648  
Prep Batch: 91131

Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17

Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107697  
Prep Batch: 91168

Date Analyzed: 2013-12-13  
QC Preparation: 2013-12-13

Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107697  
Prep Batch: 91168

Date Analyzed: 2013-12-13  
QC Preparation: 2013-12-13

Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107778  
Prep Batch: 91236

Date Analyzed: 2013-12-19  
QC Preparation: 2013-12-19

Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Method Blank (1)**

QC Batch: 107986                      Date Analyzed: 2014-01-02                      Analyzed By: SAS  
 Prep Batch: 91393                      QC Preparation: 2014-01-02                      Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Duplicate (1)**    Duplicated Sample: 349174

QC Batch: 107648                      Date Analyzed: 2013-12-17                      Analyzed By: MC  
 Prep Batch: 91131                      QC Preparation: 2013-12-17                      Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 1870             | 1890          | mg/L  | 1        | 1   | 10        |



# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107648  
Prep Batch: 91131

Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17

Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 986           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 972           | mg/L  | 1    | 1000            | <2.50            | 97   | 90 - 110      | 1   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107697  
Prep Batch: 91168

Date Analyzed: 2013-12-13  
QC Preparation: 2013-12-13

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.2          | mg/L  | 1    | 25.0            | <0.678           | 97   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 24.3          | mg/L  | 1    | 25.0            | <0.678           | 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: 107697  
Prep Batch: 91168

Date Analyzed: 2013-12-13  
QC Preparation: 2013-12-13

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 4.86          | mg/L  | 1    | 5.00            | <0.0426          | 97   | 90 - 110      |

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

| Param     | F | C | LCSD   |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit | RPD | RPD Limit |
|-----------|---|---|--------|-------|------|--------------|---------------|------|------------|-----|-----------|
|           |   |   | Result | Units |      |              |               |      |            |     |           |
| Nitrate-N |   | 1 | 4.87   | mg/L  | 1    | 5.00         | <0.0426       | 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: 107778                      Date Analyzed: 2013-12-19                      Analyzed By: SAS  
 Prep Batch: 91236                      QC Preparation: 2013-12-19                      Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|
|                             |   |   | Result | Units |      |              |               |      |            |
| Total Kjeldahl Nitrogen - N |   | 2 | 49.0   | mg/L  | 1    | 50.0         | <1.66         | 98   | 79.2 - 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 | 49.7   | mg/L  | 1    | 50.0         | <1.66         | 99   | 79.2 - 115 | 1   | 20        |

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

**Laboratory Control Spike (LCS-1)**

QC Batch: 107986                      Date Analyzed: 2014-01-02                      Analyzed By: SAS  
 Prep Batch: 91393                      QC Preparation: 2014-01-02                      Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike Amount | Matrix Result | Rec. | Rec. Limit |
|-----------------------------|---|---|--------|-------|------|--------------|---------------|------|------------|
|                             |   |   | Result | Units |      |              |               |      |            |
| Total Kjeldahl Nitrogen - N |   | 2 | 47.6   | mg/L  | 1    | 50.0         | <1.66         | 95   | 79.2 - 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 | 49.0   | mg/L  | 1    | 50.0         | <1.66         | 98   | 79.2 - 115 | 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: 348763

QC Batch: 107697                      Date Analyzed: 2013-12-13                      Analyzed By: JR  
 Prep Batch: 91168                      QC Preparation: 2013-12-13                      Prepared By: JR

| Param    | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 1980         | mg/L  | 55.6 | 1390            | 546              | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 1980          | mg/L  | 55.6 | 1390            | 546              | 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: 348763

QC Batch: 107697 Date Analyzed: 2013-12-13 Analyzed By: JR  
Prep Batch: 91168 QC Preparation: 2013-12-13 Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 276          | mg/L  | 55.6 | 278             | 5.83             | 97   | 80 - 120      |

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

| Param     | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 277           | mg/L  | 55.6 | 278             | 5.83             | 98   | 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: 348762

QC Batch: 107778 Date Analyzed: 2013-12-19 Analyzed By: SAS  
Prep Batch: 91236 QC Preparation: 2013-12-19 Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 50.4         | mg/L  | 1    | 50.0            | <1.66            | 101  | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.8          | mg/L  | 1    | 50.0            | <1.66            | 104  | 58.1 - 115    | 3   | 20           |

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









| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.62                   | 92                          | 85 - 115                      | 2014-01-02       |

**Standard (CCV-1)**

QC Batch: 107986

Date Analyzed: 2014-01-02

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2014-01-02       |

---

## 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                   | 0.126        | 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 |

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# Appendix

## Report Definitions

| Name | Definition                 |
|------|----------------------------|
| MDL  | Method Detection Limit     |
| MQL  | Minimum Quantitation Limit |
| SDL  | Sample Detection Limit     |

## Laboratory Certifications

| C | Certifying Authority | Certification Number | Laboratory Location |
|---|----------------------|----------------------|---------------------|
| - | NCTRCA               | WFWB384444Y0909      | TraceAnalysis       |
| - | DBE                  | VN 20657             | TraceAnalysis       |
| - | HUB                  | 1752439743100-86536  | TraceAnalysis       |
| - | WBE                  | 237019               | TraceAnalysis       |
| 1 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | Lubbock             |

## Standard Flags

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

## Attachments

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

# TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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

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

Company Name: **D+H PETROLEUM + ENVIRONMENTAL**  
 Address: **1221 Tower Trail Ln, El Paso, TX, 79907**  
 Contact Person: **VICTOR AYALA**  
 Invoice to: **VARIOUS DAIRIES**  
 Project #: **429539**  
 Project Location: **DONA ANA, VARIOUS DAIRIES, NM**  
 Phone #: **915-859-0150**  
 Fax #: **VAYALA@DHIMP.LUM**  
 E-mail: **LINDA ARMSTRONG 575-233-3620**  
 Project Name: **DONA ANA DAIRIES**  
 Sampler Signature: **JUGS**

| LAB #<br>(LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume/Amount | MATRIX |      |     |        | PRESERVATIVE METHOD |                  |                                |      | SAMPLING |       |       |
|-------------------------|------------|--------------|---------------|--------|------|-----|--------|---------------------|------------------|--------------------------------|------|----------|-------|-------|
|                         |            |              |               | WATER  | SOIL | AIR | SLUDGE | HCL                 | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NAOH | ICE      | NONE  | DATE  |
| 348761-1                | DAD-22     | 1            | 750           |        |      |     |        | X                   |                  |                                | X    | X        | 12-13 | 12:16 |
| -2                      | DAD-22     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 12-16 | 12:16 |
| 762-1                   | DAD-M      | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 11-29 | 11:29 |
| -2                      | DAD-14     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 11-29 | 11:29 |
| 763-1                   | DAD-13     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 10-32 | 10:32 |
| -2                      | DAD-13     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 10-32 | 10:32 |
| 764-1                   | DAD-12     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 9:59  | 9:59  |
| -2                      | DAD-12     | 1            |               |        |      |     |        | X                   |                  |                                | X    | X        | 9:59  | 9:59  |

Relinquished by: **JUGS** Company: **D+H** Date: **12-13-13** Time: **12:55**  
 Received by: **WRC** Company: **12-13-13** Date: **12:55** Time: **12:55**  
 INST: **262** OBS: **3** COR: **0**  
 Relinquished by: **Paul Marshall** Company: **TA** Date: **12/14/13** Time: **11:00**  
 Received by: **Paul Marshall** Company: **TA** Date: **12/14/13** Time: **11:00**  
 INST: **123** OBS: **39** COR: **0**  
 Relinquished by: **Paul Marshall** Company: **TA** Date: **12/13-13** Time: **3:58**  
 Received by: **Paul Marshall** Company: **TA** Date: **12/13-13** Time: **3:58**  
 INST: **123** OBS: **39** COR: **0**

## ANALYSIS REQUEST (Circle or Specify Method No.)

|                                     |  |
|-------------------------------------|--|
| <input type="checkbox"/>            | MTBE 8021B / 602 / 8260B / 624                     |
| <input type="checkbox"/>            | BTEX 8021B / 602 / 8260B / 624                     |
| <input type="checkbox"/>            | TPH 418.1 / TX1005 / DRO / TVHC                    |
| <input type="checkbox"/>            | PAH 8270C / 625                                    |
| <input type="checkbox"/>            | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B / 200.7 |
| <input type="checkbox"/>            | TCLP Metals Ag As Ba Cd Cr Pb Se Hg                |
| <input type="checkbox"/>            | TCLP Volatiles                                     |
| <input type="checkbox"/>            | TCLP Semi Volatiles                                |
| <input type="checkbox"/>            | TCLP Pesticides                                    |
| <input type="checkbox"/>            | RCI  |
| <input type="checkbox"/>            | GC/MS Vol. 8260B / 624                             |
| <input type="checkbox"/>            | GC/MS Semi. Vol. 8270C/625                         |
| <input type="checkbox"/>            | PCBs 8082 / 608                                    |
| <input type="checkbox"/>            | Pesticides 8081A / 608                             |
| <input type="checkbox"/>            | BOD, TSS, pH                                       |
| <input type="checkbox"/>            | Moisture Content                                   |
| <input checked="" type="checkbox"/> | Total kjeldhal notrogen SM 4500 NORG C             |
| <input type="checkbox"/>            | Nitrate EPA 300.0                                  |
| <input type="checkbox"/>            | Chloride EPA 300.0                                 |
| <input type="checkbox"/>            | Total Dissolved Solids SM 2540 C MOD               |
| <input type="checkbox"/>            | Turn Around Time if different from standard        |

REMARKS: **ON FILE**  
**TRK in unbreak**  
 Dry Weight Basis Required  
 TRRP Report Required  
 Check if Special Reporting Limits Are Needed

LAB USE ONLY  
 Intact:  Y  N  
 Headspace Y / N / NA:  Y  N  NA  
 Date: **12-13-13**  
 Log-in Review  
 Carrier #: **Carruth LS. 985 907605**



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

Chet Wyant  
 Sun Valley Dairy LLC  
 181 Links Rd.  
 P. O. Box 1929  
 Anthony, NM, 88021

Report Date: January 3, 2014

Work Order: 13121845



DP: 170  
 Project Location: 181 Links Rd, Anthony, NM  
 Project Name: Sun Valley 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 |
|--------|-------------|--------|------------|------------|---------------|
| 349440 | 170-1       | water  | 2013-12-18 | 09:05      | 2013-12-18    |
| 349441 | 170-9       | water  | 2013-12-18 | 14:19      | 2013-12-18    |
| 349442 | 170-10      | water  | 2013-12-18 | 10:06      | 2013-12-18    |
| 349443 | 170-13      | water  | 2013-12-18 | 10:45      | 2013-12-18    |
| 349444 | 170-15      | water  | 2013-12-18 | 13:33      | 2013-12-18    |
| 349445 | 170-16      | water  | 2013-12-18 | 14:12      | 2013-12-18    |
| 349446 | 170-17      | water  | 2013-12-18 | 12:13      | 2013-12-18    |
| 349447 | 170-18      | water  | 2013-12-18 | 11:36      | 2013-12-18    |

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 30 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

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

*Michael Abel*

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



# Report Contents

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| QC Batch 107831 - LCS (1) . . . . .          | 20        |
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## Case Narrative

Samples for project Sun Valley Dairy were received by TraceAnalysis, Inc. on 2013-12-18 and assigned to work order 13121845. Samples for work order 13121845 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         | 91271      | 2013-12-19 at 19:39 | 107830   | 2013-12-19 at 19:39 |
| Chloride (IC) | E 300.0         | 91272      | 2013-12-20 at 02:00 | 107831   | 2013-12-20 at 02:00 |
| NO3 (IC)      | E 300.0         | 91271      | 2013-12-19 at 19:39 | 107830   | 2013-12-19 at 19:39 |
| NO3 (IC)      | E 300.0         | 91272      | 2013-12-20 at 02:00 | 107831   | 2013-12-20 at 02:00 |
| TDS           | SM 2540C        | 91210      | 2013-12-19 at 12:00 | 107754   | 2013-12-19 at 12:15 |
| TDS           | SM 2540C        | 91259      | 2013-12-23 at 11:00 | 107818   | 2013-12-23 at 11:00 |
| TKN           | SM 4500-NH3 B,C | 91393      | 2014-01-02 at 11:30 | 107986   | 2014-01-02 at 16:30 |
| TKN           | SM 4500-NH3 B,C | 91394      | 2014-01-02 at 11:30 | 107993   | 2014-01-02 at 17:00 |

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 13121845 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: 349440 - 170-1**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107830 Date Analyzed: 2013-12-19 Analyzed By: JR  
 Prep Batch: 91271 Sample Preparation: 2013-12-19 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>660</b>             | <b>660</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 349440 - 170-1**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107830 Date Analyzed: 2013-12-19 Analyzed By: JR  
 Prep Batch: 91271 Sample Preparation: 2013-12-19 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>22.9</b>            | <b>22.9</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 349440 - 170-1**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107754 Date Analyzed: 2013-12-19 Analyzed By: MC  
 Prep Batch: 91210 Sample Preparation: 2013-12-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2400</b>            | <b>2400</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 349440 - 170-1**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107986 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91393 Sample Preparation: 2014-01-02 Prepared By: SAS

| Parameter                   | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 349441 - 170-9**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107830 Date Analyzed: 2013-12-19 Analyzed By: JR  
 Prep Batch: 91271 Sample Preparation: 2013-12-19 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>1130</b>     | <b>1130</b>     | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 349441 - 170-9**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107830 Date Analyzed: 2013-12-19 Analyzed By: JR  
 Prep Batch: 91271 Sample Preparation: 2013-12-19 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>57.5</b>     | <b>57.5</b>     | <0.426          | mg/L  | 10       | 0.426 | 0.5          | 0.0426       |

**Sample: 349441 - 170-9**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107754 Date Analyzed: 2013-12-19 Analyzed By: MC  
 Prep Batch: 91210 Sample Preparation: 2013-12-19 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>3590</b>     | <b>3590</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 349441 - 170-9**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107986 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91393 Sample Preparation: 2014-01-02 Prepared By: SAS

| Parameter                   | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66           | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 349442 - 170-10**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107830 Date Analyzed: 2013-12-19 Analyzed By: JR  
 Prep Batch: 91271 Sample Preparation: 2013-12-19 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>565</b>      | <b>565</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 349442 - 170-10**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107830 Date Analyzed: 2013-12-19 Analyzed By: JR  
 Prep Batch: 91271 Sample Preparation: 2013-12-19 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>39.7</b>     | <b>39.7</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 349442 - 170-10**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107754 Date Analyzed: 2013-12-19 Analyzed By: MC  
 Prep Batch: 91210 Sample Preparation: 2013-12-19 Prepared By: MC

*continued . . .*



*sample 349442 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2100</b>            | <b>2100</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 349442 - 170-10**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107986

Prep Batch: 91393

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-01-02

Sample Preparation: 2014-01-02

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 349443 - 170-13**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 107830

Prep Batch: 91271

Analytical Method: E 300.0

Date Analyzed: 2013-12-19

Sample Preparation: 2013-12-19

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>484</b>             | <b>484</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 349443 - 170-13**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 107830

Prep Batch: 91271

Analytical Method: E 300.0

Date Analyzed: 2013-12-19

Sample Preparation: 2013-12-19

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>34.9</b>            | <b>34.9</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 349443 - 170-13**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107754 Date Analyzed: 2013-12-19 Analyzed By: MC  
 Prep Batch: 91210 Sample Preparation: 2013-12-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>2170</b>            | <b>2170</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 349443 - 170-13**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107993 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91394 Sample Preparation: 2014-01-02 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 349444 - 170-15**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107830 Date Analyzed: 2013-12-19 Analyzed By: JR  
 Prep Batch: 91271 Sample Preparation: 2013-12-19 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>473</b>             | <b>473</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 349444 - 170-15**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107830 Date Analyzed: 2013-12-19 Analyzed By: JR  
 Prep Batch: 91271 Sample Preparation: 2013-12-19 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>15.2</b>     | <b>15.2</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 349444 - 170-15**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107754 Date Analyzed: 2013-12-19 Analyzed By: MC  
 Prep Batch: 91210 Sample Preparation: 2013-12-19 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>1540</b>     | <b>1540</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 349444 - 170-15**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107993 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91394 Sample Preparation: 2014-01-02 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 349445 - 170-16**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107831 Date Analyzed: 2013-12-20 Analyzed By: JR  
 Prep Batch: 91272 Sample Preparation: 2013-12-20 Prepared By: JR

*continued ...*

*sample 349445 continued ...*

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>420</b>             | <b>420</b>             | <6.78                     | mg/L  | 10       | 6.78 | 2.5                 | 0.678               |

**Sample: 349445 - 170-16**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107831 Date Analyzed: 2013-12-20 Analyzed By: JR  
 Prep Batch: 91272 Sample Preparation: 2013-12-20 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N | J | 1 | <b>1.38</b>            | <2.50                  | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 349445 - 170-16**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107754 Date Analyzed: 2013-12-19 Analyzed By: MC  
 Prep Batch: 91210 Sample Preparation: 2013-12-19 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1360</b>            | <b>1360</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 349445 - 170-16**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107993 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91394 Sample Preparation: 2014-01-02 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.80</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 349446 - 170-17**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107831 Date Analyzed: 2013-12-20 Analyzed By: JR  
 Prep Batch: 91272 Sample Preparation: 2013-12-20 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>534</b>             | <b>534</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 349446 - 170-17**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107831 Date Analyzed: 2013-12-20 Analyzed By: JR  
 Prep Batch: 91272 Sample Preparation: 2013-12-20 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>4.53</b>            | <b>4.53</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 349446 - 170-17**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107818 Date Analyzed: 2013-12-23 Analyzed By: MC  
 Prep Batch: 91259 Sample Preparation: 2013-12-23 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1640</b>            | <b>1640</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 349446 - 170-17**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107993 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91394 Sample Preparation: 2014-01-02 Prepared By: SAS

*continued ...*

*sample 349446 continued ...*

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | J | 2 | <b>3.50</b>            | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 349447 - 170-18**

Laboratory: El Paso  
 Analysis: Chloride (IC)                      Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107831                              Date Analyzed: 2013-12-20                      Analyzed By: JR  
 Prep Batch: 91272                              Sample Preparation: 2013-12-20                      Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>908</b>             | <b>908</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 349447 - 170-18**

Laboratory: El Paso  
 Analysis: NO3 (IC)                              Analytical Method: E 300.0                      Prep Method: N/A  
 QC Batch: 107831                              Date Analyzed: 2013-12-20                      Analyzed By: JR  
 Prep Batch: 91272                              Sample Preparation: 2013-12-20                      Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>23.6</b>            | <b>23.6</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 349447 - 170-18**

Laboratory: El Paso  
 Analysis: TDS                                      Analytical Method: SM 2540C                      Prep Method: N/A  
 QC Batch: 107818                              Date Analyzed: 2013-12-23                      Analyzed By: MC  
 Prep Batch: 91259                              Sample Preparation: 2013-12-23                      Prepared By: MC



| Parameter              | F | C | SDL         | SQL         | Method | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-------------|-------------|--------|-------|----------|------|--------------|--------------|
|                        |   |   | Based       | Based       | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>2820</b> | <b>2820</b> | <2.50  | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 349447 - 170-18**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107993

Prep Batch: 91394

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-01-02

Sample Preparation: 2014-01-02

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL   | SQL   | Method | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-------|-------|--------|-------|----------|------|--------------|--------------|
|                             |   |   | Based | Based | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66 | <10.0 | <1.66  | mg/L  | 1        | 1.66 | 10           | 1.66         |

## Method Blanks

### Method Blank (1)

QC Batch: 107754  
Prep Batch: 91210Date Analyzed: 2013-12-19  
QC Preparation: 2013-12-19Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107818  
Prep Batch: 91259Date Analyzed: 2013-12-23  
QC Preparation: 2013-12-23Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107830  
Prep Batch: 91271Date Analyzed: 2013-12-19  
QC Preparation: 2013-12-19Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107830  
Prep Batch: 91271Date Analyzed: 2013-12-19  
QC Preparation: 2013-12-19Analyzed By: JR  
Prepared By: JR

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| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

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**Method Blank (1)**QC Batch: 107831  
Prep Batch: 91272Date Analyzed: 2013-12-20  
QC Preparation: 2013-12-20Analyzed By: JR  
Prepared By: JR

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| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

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**Method Blank (1)**QC Batch: 107831  
Prep Batch: 91272Date Analyzed: 2013-12-20  
QC Preparation: 2013-12-20Analyzed By: JR  
Prepared By: JR

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| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

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**Method Blank (1)**QC Batch: 107986  
Prep Batch: 91393Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02Analyzed By: SAS  
Prepared By: SAS

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| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

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**Method Blank (1)**QC Batch: 107993  
Prep Batch: 91394Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02Analyzed By: SAS  
Prepared By: SAS

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| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

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**Duplicate (1)** Duplicated Sample: 349454

QC Batch: 107754                      Date Analyzed: 2013-12-19                      Analyzed By: MC  
Prep Batch: 91210                      QC Preparation: 2013-12-19                      Prepared By: MC

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| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 3780             | 3620          | mg/L  | 1        | 4   | 10        |

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**Duplicate (1)** Duplicated Sample: 349448

QC Batch: 107818                      Date Analyzed: 2013-12-23                      Analyzed By: MC  
Prep Batch: 91259                      QC Preparation: 2013-12-23                      Prepared By: MC

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| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 725              | 715           | mg/L  | 1        | 1   | 10        |

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# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107754  
Prep Batch: 91210Date Analyzed: 2013-12-19  
QC Preparation: 2013-12-19Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 1020          | mg/L  | 1    | 1000            | <2.50            | 102  | 90 - 110      | 2   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107818  
Prep Batch: 91259Date Analyzed: 2013-12-23  
QC Preparation: 2013-12-23Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 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: 107830  
Prep Batch: 91271Date Analyzed: 2013-12-19  
QC Preparation: 2013-12-19Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 23.9          | mg/L  | 1    | 25.0            | <0.678           | 96   | 90 - 110      |

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

| Param    | F | C | LCSD   |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|          |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Chloride |   | 1 | 23.9   | mg/L  | 1    | 25.0            | <0.678           | 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: 107830  
Prep Batch: 91271

Date Analyzed: 2013-12-19  
QC Preparation: 2013-12-19

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|
|           |   |   | Result | Units |      |                 |                  |              |               |
| Nitrate-N |   | 1 | 4.85   | mg/L  | 1    | 5.00            | <0.0426          | 97           | 90 - 110      |

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

| Param     | F | C | LCSD   |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|           |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Nitrate-N |   | 1 | 4.85   | mg/L  | 1    | 5.00            | <0.0426          | 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: 107831  
Prep Batch: 91272

Date Analyzed: 2013-12-20  
QC Preparation: 2013-12-20

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|
|          |   |   | Result | Units |      |                 |                  |              |               |
| Chloride |   | 1 | 24.2   | mg/L  | 1    | 25.0            | <0.678           | 97           | 90 - 110      |

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

| Param    | F | C | LCSD   |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|          |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Chloride |   | 1 | 24.0   | mg/L  | 1    | 25.0            | <0.678           | 96           | 90 - 110      | 1   | 20           |

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

#### Laboratory Control Spike (LCS-1)

QC Batch: 107831  
Prep Batch: 91272

Date Analyzed: 2013-12-20  
QC Preparation: 2013-12-20

Analyzed By: JR  
Prepared By: JR



| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 4.87          | mg/L  | 1    | 5.00            | <0.0426          | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|----------------|-------|------|-----------------|------------------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 4.87           | mg/L  | 1    | 5.00            | <0.0426          | 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: 107986  
Prep Batch: 91393

Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 47.6          | mg/L  | 1    | 50.0            | <1.66            | 95   | 79.2 - 115    |

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

| Param                       | F | C | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|----------------|-------|------|-----------------|------------------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 49.0           | mg/L  | 1    | 50.0            | <1.66            | 79.2 - 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: 107993  
Prep Batch: 91394

Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 47.6          | mg/L  | 1    | 50.0            | <1.66            | 95   | 79.2 - 115    |

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

| Param                       | F | C | LCSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|----------------|-------|------|-----------------|------------------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 49.7           | mg/L  | 1    | 50.0            | <1.66            | 79.2 - 115    | 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: 349444QC Batch: 107830  
Prep Batch: 91271Date Analyzed: 2013-12-19  
QC Preparation: 2013-12-19Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 1890         | mg/L  | 55.6 | 1390            | 473              | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 1860          | mg/L  | 55.6 | 1390            | 473              | 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: 349444QC Batch: 107830  
Prep Batch: 91271Date Analyzed: 2013-12-19  
QC Preparation: 2013-12-19Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 291          | mg/L  | 55.6 | 278             | 15.2             | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 285           | mg/L  | 55.6 | 278             | 15.2             | 97   | 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: 349446QC Batch: 107831  
Prep Batch: 91272Date Analyzed: 2013-12-20  
QC Preparation: 2013-12-20Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 1970         | mg/L  | 55.6 | 1390            | 534              | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 1980          | mg/L  | 55.6 | 1390            | 534              | 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: 349446

QC Batch: 107831  
Prep Batch: 91272

Date Analyzed: 2013-12-20  
QC Preparation: 2013-12-20

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 279          | mg/L  | 55.6 | 278             | 4.53             | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 281           | mg/L  | 55.6 | 278             | 4.53             | 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: 349442

QC Batch: 107986  
Prep Batch: 91393

Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.8         | mg/L  | 1    | 50.0            | <1.66            | 104  | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 50.4          | mg/L  | 1    | 50.0            | <1.66            | 101  | 58.1 - 115    | 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: 349447

QC Batch: 107993  
Prep Batch: 91394

Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.1         | mg/L  | 1    | 50.0            | <1.66            | 102  | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 50.4          | mg/L  | 1    | 50.0            | <1.66            | 101  | 58.1 - 115    | 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: 107830

Date Analyzed: 2013-12-19

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.7                   | 95                          | 90 - 110                      | 2013-12-19       |

### Standard (CCV-1)

QC Batch: 107830

Date Analyzed: 2013-12-19

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.86                   | 97                          | 90 - 110                      | 2013-12-19       |

### Standard (CCV-2)

QC Batch: 107830

Date Analyzed: 2013-12-19

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.8                   | 95                          | 90 - 110                      | 2013-12-19       |

### Standard (CCV-2)

QC Batch: 107830

Date Analyzed: 2013-12-19

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.88                   | 98                          | 90 - 110                      | 2013-12-19       |

**Standard (CCV-3)**

QC Batch: 107830

Date Analyzed: 2013-12-19

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.9                   | 96                          | 90 - 110                      | 2013-12-19       |

**Standard (CCV-3)**

QC Batch: 107830

Date Analyzed: 2013-12-19

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.91                   | 98                          | 90 - 110                      | 2013-12-19       |

**Standard (CCV-1)**

QC Batch: 107831

Date Analyzed: 2013-12-20

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.9                   | 96                          | 90 - 110                      | 2013-12-20       |

**Standard (CCV-1)**

QC Batch: 107831

Date Analyzed: 2013-12-20

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.91                   | 98                          | 90 - 110                      | 2013-12-20       |

**Standard (CCV-2)**

QC Batch: 107831

Date Analyzed: 2013-12-20

Analyzed By: JR



| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.9                   | 96                          | 90 - 110                      | 2013-12-20       |

**Standard (CCV-2)**

QC Batch: 107831

Date Analyzed: 2013-12-20

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.91                   | 98                          | 90 - 110                      | 2013-12-20       |

**Standard (CCV-3)**

QC Batch: 107831

Date Analyzed: 2013-12-20

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 24.0                   | 96                          | 90 - 110                      | 2013-12-20       |

**Standard (CCV-3)**

QC Batch: 107831

Date Analyzed: 2013-12-20

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.93                   | 99                          | 90 - 110                      | 2013-12-20       |

**Standard (ICV-1)**

QC Batch: 107986

Date Analyzed: 2014-01-02

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.62                   | 92                          | 85 - 115                      | 2014-01-02       |

**Standard (CCV-1)**

QC Batch: 107986

Date Analyzed: 2014-01-02

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2014-01-02       |

**Standard (ICV-1)**

QC Batch: 107993

Date Analyzed: 2014-01-02

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.62                   | 92                          | 85 - 115                      | 2014-01-02       |

**Standard (CCV-1)**

QC Batch: 107993

Date Analyzed: 2014-01-02

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.62                   | 92                          | 85 - 115                      | 2014-01-02       |

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## Limits of Detection (LOD)

| Test          | Method          | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|-----------------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0         | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0         | water  | Dionex IC  | Nitrate-N                   | 0.126           | 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 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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: January 3, 2014

P.O. Box 10  
 Mesquite, NM, 88048

Work Order: 13121640



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 |
|--------|-------------|--------|------------|------------|---------------|
| 349171 | DAD-11      | water  | 2013-12-16 | 10:39      | 2013-12-16    |
| 349172 | DAD-10      | water  | 2013-12-16 | 11:55      | 2013-12-16    |
| 349173 | DAD-09      | water  | 2013-12-16 | 12:47      | 2013-12-16    |
| 349174 | DAD-21      | water  | 2013-12-16 | 12:27      | 2013-12-16    |
| 349175 | DAD-20      | water  | 2013-12-16 | 13:26      | 2013-12-16    |

## Notes

- **Work Order 13121640:** Results due in 10 business days: Estimated date 12/30/2013

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

This report consists of a total of 19 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

### Notes:

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

*Michael Abel*

---

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

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## Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2013-12-16 and assigned to work order 13121640. Samples for work order 13121640 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         | 91147      | 2013-12-17 at 18:23 | 107670   | 2013-12-17 at 18:23 |
| NO3 (IC)      | E 300.0         | 91147      | 2013-12-17 at 18:23 | 107670   | 2013-12-17 at 18:23 |
| TDS           | SM 2540C        | 91131      | 2013-12-17 at 14:00 | 107648   | 2013-12-17 at 14:00 |
| TKN           | SM 4500-NH3 B,C | 91393      | 2014-01-02 at 11:30 | 107986   | 2014-01-02 at 16:30 |

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 13121640 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: 349171 - DAD-11**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107670 Date Analyzed: 2013-12-17 Analyzed By: JR  
 Prep Batch: 91147 Sample Preparation: 2013-12-17 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>1170</b>            | <b>1170</b>            | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 349171 - DAD-11**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107670 Date Analyzed: 2013-12-17 Analyzed By: JR  
 Prep Batch: 91147 Sample Preparation: 2013-12-17 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>15.0</b>            | <b>15.0</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 349171 - DAD-11**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107648 Date Analyzed: 2013-12-17 Analyzed By: MC  
 Prep Batch: 91131 Sample Preparation: 2013-12-17 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>3790</b>            | <b>3790</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 349171 - DAD-11**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107986 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91393 Sample Preparation: 2014-01-02 Prepared By: SAS



| Parameter                   | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>  | <10.0        | <1.66        | mg/L  | 1        | 1.66 | 10           | 1.66         |

**Sample: 349172 - DAD-10**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107670 Date Analyzed: 2013-12-17 Analyzed By: JR  
 Prep Batch: 91147 Sample Preparation: 2013-12-17 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>475</b>   | <b>475</b>   | <6.78        | mg/L  | 10       | 6.78 | 2.5          | 0.678        |

**Sample: 349172 - DAD-10**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107670 Date Analyzed: 2013-12-17 Analyzed By: JR  
 Prep Batch: 91147 Sample Preparation: 2013-12-17 Prepared By: JR

| Parameter | F | C | SDL          | SQL          | Method       | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|--------------|--------------|--------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based Result | Based Result | Blank Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>8.34</b>  | <b>8.34</b>  | <0.213       | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 349172 - DAD-10**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107648 Date Analyzed: 2013-12-17 Analyzed By: MC  
 Prep Batch: 91131 Sample Preparation: 2013-12-17 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 | <b>1600</b>  | <b>1600</b>  | <2.50        | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 349172 - DAD-10**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107986 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91393 Sample Preparation: 2014-01-02 Prepared By: SAS

| Parameter                   | F | C | SDL         | SQL   | Method | Units | Dilution | SDL          | SQL          | MDL  |
|-----------------------------|---|---|-------------|-------|--------|-------|----------|--------------|--------------|------|
|                             |   |   | Based       | Based | Blank  |       |          | (Unadjusted) | (Unadjusted) |      |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>4.90</b> | <10.0 | <1.66  | mg/L  | 1        | 1.66         | 10           | 1.66 |

**Sample: 349173 - DAD-09**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107670 Date Analyzed: 2013-12-17 Analyzed By: JR  
 Prep Batch: 91147 Sample Preparation: 2013-12-17 Prepared By: JR

| Parameter | F | C | SDL        | SQL        | Method | Units | Dilution | SDL          | SQL          | MDL   |
|-----------|---|---|------------|------------|--------|-------|----------|--------------|--------------|-------|
|           |   |   | Based      | Based      | Blank  |       |          | (Unadjusted) | (Unadjusted) |       |
| Chloride  |   | 1 | <b>294</b> | <b>294</b> | <6.78  | mg/L  | 10       | 6.78         | 2.5          | 0.678 |

**Sample: 349173 - DAD-09**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107670 Date Analyzed: 2013-12-17 Analyzed By: JR  
 Prep Batch: 91147 Sample Preparation: 2013-12-17 Prepared By: JR

| Parameter | F | C | SDL         | SQL         | Method | Units | Dilution | SDL          | SQL          | MDL    |
|-----------|---|---|-------------|-------------|--------|-------|----------|--------------|--------------|--------|
|           |   |   | Based       | Based       | Blank  |       |          | (Unadjusted) | (Unadjusted) |        |
| Nitrate-N |   | 1 | <b>17.4</b> | <b>17.4</b> | <0.213 | mg/L  | 5        | 0.213        | 0.5          | 0.0426 |

**Sample: 349173 - DAD-09**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107648 Date Analyzed: 2013-12-17 Analyzed By: MC  
 Prep Batch: 91131 Sample Preparation: 2013-12-17 Prepared By: MC

*continued . . .*

*sample 349173 continued ...*

| Parameter              | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | 1200                   | 1200                   | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 349173 - DAD-09**

Laboratory: Lubbock

Analysis: TKN

QC Batch: 107986

Prep Batch: 91393

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-01-02

Sample Preparation: 2014-01-02

Prep Method: N/A

Analyzed By: SAS

Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 349174 - DAD-21**

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 107670

Prep Batch: 91147

Analytical Method: E 300.0

Date Analyzed: 2013-12-17

Sample Preparation: 2013-12-17

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | SQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | SQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | 568                    | 568                    | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 349174 - DAD-21**

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 107670

Prep Batch: 91147

Analytical Method: E 300.0

Date Analyzed: 2013-12-17

Sample Preparation: 2013-12-17

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL   | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|-------|---------------------|---------------------|
| Nitrate-N |   | 1 | <b>16.9</b>            | <b>16.9</b>            | <0.213                    | mg/L  | 5        | 0.213 | 0.5                 | 0.0426              |

**Sample: 349174 - DAD-21**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107648 Date Analyzed: 2013-12-17 Analyzed By: MC  
 Prep Batch: 91131 Sample Preparation: 2013-12-17 Prepared By: MC

| Parameter              | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Dissolved Solids |   | 1 | <b>1890</b>            | <b>1890</b>            | <2.50                     | mg/L  | 1        | 2.50 | 2.5                 | 2.5                 |

**Sample: 349174 - DAD-21**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107986 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91393 Sample Preparation: 2014-01-02 Prepared By: SAS

| Parameter                   | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------------------------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Total Kjeldahl Nitrogen - N | u | 2 | <1.66                  | <10.0                  | <1.66                     | mg/L  | 1        | 1.66 | 10                  | 1.66                |

**Sample: 349175 - DAD-20**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107670 Date Analyzed: 2013-12-17 Analyzed By: JR  
 Prep Batch: 91147 Sample Preparation: 2013-12-17 Prepared By: JR

| Parameter | F | C | SDL<br>Based<br>Result | MQL<br>Based<br>Result | Method<br>Blank<br>Result | Units | Dilution | SDL  | MQL<br>(Unadjusted) | MDL<br>(Unadjusted) |
|-----------|---|---|------------------------|------------------------|---------------------------|-------|----------|------|---------------------|---------------------|
| Chloride  |   | 1 | <b>732</b>             | <b>732</b>             | <33.9                     | mg/L  | 50       | 33.9 | 2.5                 | 0.678               |

**Sample: 349175 - DAD-20**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 107670 Date Analyzed: 2013-12-17 Analyzed By: JR  
 Prep Batch: 91147 Sample Preparation: 2013-12-17 Prepared By: JR

| Parameter | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL   | MQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>20.2</b>     | <b>20.2</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 349175 - DAD-20**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 107648 Date Analyzed: 2013-12-17 Analyzed By: MC  
 Prep Batch: 91131 Sample Preparation: 2013-12-17 Prepared By: MC

| Parameter              | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>2140</b>     | <b>2140</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 349175 - DAD-20**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 107986 Date Analyzed: 2014-01-02 Analyzed By: SAS  
 Prep Batch: 91393 Sample Preparation: 2014-01-02 Prepared By: SAS

| Parameter                   | F | C | SDL             | MQL             | Method          | Units | Dilution | SDL  | MQL          | MDL          |
|-----------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                             |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b>     | <10.0           | <1.66           | mg/L  | 1        | 1.66 | 10           | 1.66         |

## Method Blanks

### Method Blank (1)

QC Batch: 107648  
Prep Batch: 91131Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 107670  
Prep Batch: 91147Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | <0.678 | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 107670  
Prep Batch: 91147Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 107986  
Prep Batch: 91393Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02Analyzed By: SAS  
Prepared By: SAS



| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Duplicate (1)** Duplicated Sample: 349174

QC Batch: 107648  
 Prep Batch: 91131

Date Analyzed: 2013-12-17  
 QC Preparation: 2013-12-17

Analyzed By: MC  
 Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 1870             | 1890          | mg/L  | 1        | 1   | 10        |

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 107648  
Prep Batch: 91131Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Total Dissolved Solids |   | 1 | 986           | mg/L  | 1    | 1000            | <2.50            | 99   | 90 - 110      |

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

| Param                  | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Dissolved Solids |   | 1 | 972           | mg/L  | 1    | 1000            | <2.50            | 97   | 90 - 110      | 1   | 10           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 107670  
Prep Batch: 91147Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Chloride |   | 1 | 24.5          | mg/L  | 1    | 25.0            | <0.678           | 98   | 90 - 110      |

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

| Param    | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Chloride |   | 1 | 24.4          | mg/L  | 1    | 25.0            | <0.678           | 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: 107670  
Prep Batch: 91147Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 4.98          | mg/L  | 1    | 5.00            | <0.0426          | 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<br>Amount | Matrix<br>Result | Rec.<br>Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|--------------|---------------|-----|--------------|
|           |   |   | Result | Units |      |                 |                  |              |               |     |              |
| Nitrate-N |   | 1 | 4.95   | mg/L  | 1    | 5.00            | <0.0426          | 99           | 90 - 110      | 1   | 20           |

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

### Laboratory Control Spike (LCS-1)

QC Batch: 107986  
Prep Batch: 91393

Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02

Analyzed By: SAS  
Prepared By: SAS

| Param                       | F | C | LCS    |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |
| Total Kjeldahl Nitrogen - N |   | 2 | 47.6   | mg/L  | 1    | 50.0            | <1.66            | 95   | 79.2 - 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|                             |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Total Kjeldahl Nitrogen - N |   | 2 | 49.0   | mg/L  | 1    | 50.0            | <1.66            | 98   | 79.2 - 115    | 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: 349173

QC Batch: 107670  
Prep Batch: 91147

Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17

Analyzed By: JR  
Prepared By: JR

| Param    | F | C | MS     |       | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|          |   |   | Result | Units |      |                 |                  |      |               |
| Chloride |   | 1 | 1650   | mg/L  | 55.6 | 1390            | 294              | 98   | 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<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|          |   |   | Result | Units |      |                 |                  |      |               |     |              |
| Chloride |   | 1 | 1650   | mg/L  | 55.6 | 1390            | 294              | 98   | 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: 349173

QC Batch: 107670  
Prep Batch: 91147

Date Analyzed: 2013-12-17  
QC Preparation: 2013-12-17

Analyzed By: JR  
Prepared By: JR

| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 294          | mg/L  | 55.6 | 278             | 17.4             | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Nitrate-N |   | 1 | 294           | mg/L  | 55.6 | 278             | 17.4             | 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: 349442

QC Batch: 107986  
 Prep Batch: 91393

Date Analyzed: 2014-01-02  
 QC Preparation: 2014-01-02

Analyzed By: SAS  
 Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 51.8         | mg/L  | 1    | 50.0            | <1.66            | 104  | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 50.4          | mg/L  | 1    | 50.0            | <1.66            | 101  | 58.1 - 115    | 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: 107670

Date Analyzed: 2013-12-17

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.5                   | 94                          | 90 - 110                      | 2013-12-17       |

### Standard (CCV-1)

QC Batch: 107670

Date Analyzed: 2013-12-17

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.78                   | 96                          | 90 - 110                      | 2013-12-17       |

### Standard (CCV-2)

QC Batch: 107670

Date Analyzed: 2013-12-17

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.7                   | 95                          | 90 - 110                      | 2013-12-17       |

### Standard (CCV-2)

QC Batch: 107670

Date Analyzed: 2013-12-17

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.82                   | 96                          | 90 - 110                      | 2013-12-17       |

**Standard (CCV-3)**

QC Batch: 107670

Date Analyzed: 2013-12-17

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.9                   | 96                          | 90 - 110                      | 2013-12-17       |

**Standard (CCV-3)**

QC Batch: 107670

Date Analyzed: 2013-12-17

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.84                   | 97                          | 90 - 110                      | 2013-12-17       |

**Standard (ICV-1)**

QC Batch: 107986

Date Analyzed: 2014-01-02

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.62                   | 92                          | 85 - 115                      | 2014-01-02       |

**Standard (CCV-1)**

QC Batch: 107986

Date Analyzed: 2014-01-02

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2014-01-02       |



---

## Limits of Detection (LOD)

| Test          | Method          | Matrix | Instrument | Analyte                     | Spike<br>Amount | Pass |
|---------------|-----------------|--------|------------|-----------------------------|-----------------|------|
| Chloride (IC) | E 300.0         | water  | Dionex IC  | Chloride                    | 0.750           | Pass |
| NO3 (IC)      | E 300.0         | water  | Dionex IC  | Nitrate-N                   | 0.126           | 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 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | 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

Linda Armstrong  
 Dona Ana Dairies

Report Date: January 9, 2014

P.O. Box 10  
 Mesquite, NM, 88048

Work Order: 14010216



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 |
|--------|-------------|--------|------------|------------|---------------|
| 350530 | DAD-15      | water  | 2014-01-02 | 11:18      | 2014-01-02    |

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

**Notes:**

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

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

# Report Contents

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## Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2014-01-02 and assigned to work order 14010216. Samples for work order 14010216 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         | 91416      | 2014-01-02 at 17:21 | 108014   | 2014-01-02 at 17:21 |
| NO3 (IC)      | E 300.0         | 91416      | 2014-01-02 at 17:21 | 108014   | 2014-01-02 at 17:21 |
| TDS           | SM 2540C        | 91460      | 2014-01-07 at 09:30 | 108080   | 2014-01-07 at 09:30 |
| TKN           | SM 4500-NH3 B,C | 91514      | 2014-01-09 at 09:00 | 108150   | 2014-01-09 at 12:30 |

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 14010216 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: 350530 - DAD-15**

Laboratory: El Paso  
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 108014 Date Analyzed: 2014-01-02 Analyzed By: JR  
 Prep Batch: 91416 Sample Preparation: 2013-01-02 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Chloride  |   | 1 | <b>497</b>      | <b>497</b>      | <33.9           | mg/L  | 50       | 33.9 | 2.5          | 0.678        |

**Sample: 350530 - DAD-15**

Laboratory: El Paso  
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A  
 QC Batch: 108014 Date Analyzed: 2014-01-02 Analyzed By: JR  
 Prep Batch: 91416 Sample Preparation: 2013-01-02 Prepared By: JR

| Parameter | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL   | SQL          | MDL          |
|-----------|---|---|-----------------|-----------------|-----------------|-------|----------|-------|--------------|--------------|
|           |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |       | (Unadjusted) | (Unadjusted) |
| Nitrate-N |   | 1 | <b>4.72</b>     | <b>4.72</b>     | <0.213          | mg/L  | 5        | 0.213 | 0.5          | 0.0426       |

**Sample: 350530 - DAD-15**

Laboratory: El Paso  
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A  
 QC Batch: 108080 Date Analyzed: 2014-01-07 Analyzed By: MC  
 Prep Batch: 91460 Sample Preparation: 2014-01-07 Prepared By: MC

| Parameter              | F | C | SDL             | SQL             | Method          | Units | Dilution | SDL  | SQL          | MDL          |
|------------------------|---|---|-----------------|-----------------|-----------------|-------|----------|------|--------------|--------------|
|                        |   |   | Based<br>Result | Based<br>Result | Blank<br>Result |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Dissolved Solids |   | 1 | <b>1780</b>     | <b>1780</b>     | <2.50           | mg/L  | 1        | 2.50 | 2.5          | 2.5          |

**Sample: 350530 - DAD-15**

Laboratory: Lubbock  
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A  
 QC Batch: 108150 Date Analyzed: 2014-01-09 Analyzed By: SAS  
 Prep Batch: 91514 Sample Preparation: 2014-01-09 Prepared By: SAS

| Parameter                   | F | C | SDL         | SQL   | Method | Units | Dilution | SDL  | SQL          | MDL          |
|-----------------------------|---|---|-------------|-------|--------|-------|----------|------|--------------|--------------|
|                             |   |   | Based       | Based | Blank  |       |          |      | (Unadjusted) | (Unadjusted) |
| Total Kjeldahl Nitrogen - N | J | 2 | <b>2.10</b> | <10.0 | <1.66  | mg/L  | 1        | 1.66 | 10           | 1.66         |

## Method Blanks

### Method Blank (1)

QC Batch: 108014  
Prep Batch: 91416Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result | Units | Reporting Limits |
|-----------|---|---|--------|-------|------------------|
| Chloride  |   | 1 | 1.37   | mg/L  | 0.678            |

### Method Blank (1)

QC Batch: 108014  
Prep Batch: 91416Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02Analyzed By: JR  
Prepared By: JR

| Parameter | F | C | Result  | Units | Reporting Limits |
|-----------|---|---|---------|-------|------------------|
| Nitrate-N |   | 1 | <0.0426 | mg/L  | 0.0426           |

### Method Blank (1)

QC Batch: 108080  
Prep Batch: 91460Date Analyzed: 2014-01-07  
QC Preparation: 2014-01-07Analyzed By: MC  
Prepared By: MC

| Parameter              | F | C | Result | Units | Reporting Limits |
|------------------------|---|---|--------|-------|------------------|
| Total Dissolved Solids |   | 1 | <2.50  | mg/L  | 2.5              |

### Method Blank (1)

QC Batch: 108150  
Prep Batch: 91514Date Analyzed: 2014-01-09  
QC Preparation: 2014-01-09Analyzed By: SAS  
Prepared By: SAS

| Parameter                   | F | C | Result | Units | Reporting Limits |
|-----------------------------|---|---|--------|-------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | <1.66  | mg/L  | 1.66             |

**Duplicate (1)** Duplicated Sample: 350530

QC Batch: 108080  
 Prep Batch: 91460

Date Analyzed: 2014-01-07  
 QC Preparation: 2014-01-07

Analyzed By: MC  
 Prepared By: MC

| Param                  | F | C | Duplicate Result | Sample Result | Units | Dilution | RPD | RPD Limit |
|------------------------|---|---|------------------|---------------|-------|----------|-----|-----------|
| Total Dissolved Solids |   | 1 | 1820             | 1780          | mg/L  | 1        | 2   | 10        |

# Laboratory Control Spikes

## Laboratory Control Spike (LCS-1)

QC Batch: 108014  
Prep Batch: 91416Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02Analyzed By: JR  
Prepared By: JR

| Param    | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|          |   |   | Result | Units | Dil. |                 |                  |      |               |
| Chloride |   | 1 | 26.9   | mg/L  | 1    | 25.0            | <0.678           | 108  | 90 - 110      |

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

| Param    | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|          |   |   | Result | Units | Dil. |                 |                  |      |               |     |              |
| Chloride |   | 1 | 26.8   | mg/L  | 1    | 25.0            | <0.678           | 107  | 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: 108014  
Prep Batch: 91416Date Analyzed: 2014-01-02  
QC Preparation: 2014-01-02Analyzed By: JR  
Prepared By: JR

| Param     | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|           |   |   | Result | Units | Dil. |                 |                  |      |               |
| Nitrate-N |   | 1 | 5.44   | mg/L  | 1    | 5.00            | <0.0426          | 109  | 90 - 110      |

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

| Param     | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit | RPD | RPD<br>Limit |
|-----------|---|---|--------|-------|------|-----------------|------------------|------|---------------|-----|--------------|
|           |   |   | Result | Units | Dil. |                 |                  |      |               |     |              |
| Nitrate-N |   | 1 | 5.43   | mg/L  | 1    | 5.00            | <0.0426          | 109  | 90 - 110      | 0   | 20           |

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

## Laboratory Control Spike (LCS-1)

QC Batch: 108080  
Prep Batch: 91460Date Analyzed: 2014-01-07  
QC Preparation: 2014-01-07Analyzed By: MC  
Prepared By: MC

| Param                  | F | C | LCS    |       |      | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|------------------------|---|---|--------|-------|------|-----------------|------------------|------|---------------|
|                        |   |   | Result | Units | Dil. |                 |                  |      |               |
| Total Dissolved Solids |   | 1 | 921    | mg/L  | 1    | 1000            | <2.50            | 92   | 90 - 110      |

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





| Param     | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Nitrate-N |   | 1 | 303          | mg/L  | 55.6 | 278             | 8.55             | 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<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD      | RPD<br>Limit |    |
|-----------|---|---|---------------|-------|------|-----------------|------------------|---------------|----------|--------------|----|
| Nitrate-N |   | 1 | 303           | mg/L  | 55.6 | 278             | 8.55             | 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: 350530

QC Batch: 108150  
 Prep Batch: 91514

Date Analyzed: 2014-01-09  
 QC Preparation: 2014-01-09

Analyzed By: SAS  
 Prepared By: SAS

| Param                       | F | C | MS<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec. | Rec.<br>Limit |
|-----------------------------|---|---|--------------|-------|------|-----------------|------------------|------|---------------|
| Total Kjeldahl Nitrogen - N |   | 2 | 49.7         | mg/L  | 1    | 50.0            | 2.1              | 95   | 58.1 - 115    |

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

| Param                       | F | C | MSD<br>Result | Units | Dil. | Spike<br>Amount | Matrix<br>Result | Rec.<br>Limit | RPD        | RPD<br>Limit |    |
|-----------------------------|---|---|---------------|-------|------|-----------------|------------------|---------------|------------|--------------|----|
| Total Kjeldahl Nitrogen - N |   | 2 | 52.5          | mg/L  | 1    | 50.0            | 2.1              | 101           | 58.1 - 115 | 6            | 20 |

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

## Calibration Standards

### Standard (CCV-1)

QC Batch: 108014

Date Analyzed: 2014-01-02

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.8                   | 95                          | 90 - 110                      | 2014-01-02       |

### Standard (CCV-1)

QC Batch: 108014

Date Analyzed: 2014-01-02

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.84                   | 97                          | 90 - 110                      | 2014-01-02       |

### Standard (CCV-2)

QC Batch: 108014

Date Analyzed: 2014-01-02

Analyzed By: JR

| Param    | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Chloride |   | 1 | mg/L  | 25.0                  | 23.8                   | 95                          | 90 - 110                      | 2014-01-02       |

### Standard (CCV-2)

QC Batch: 108014

Date Analyzed: 2014-01-02

Analyzed By: JR

| Param     | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Nitrate-N |   | 1 | mg/L  | 5.00                  | 4.83                   | 97                          | 90 - 110                      | 2014-01-02       |

**Standard (ICV-1)**

QC Batch: 108150

Date Analyzed: 2014-01-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.76                   | 95                          | 85 - 115                      | 2014-01-09       |

**Standard (CCV-1)**

QC Batch: 108150

Date Analyzed: 2014-01-09

Analyzed By: SAS

| Param                       | F | C | Units | CCVs<br>True<br>Conc. | CCVs<br>Found<br>Conc. | CCVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|-----------------------------|---|---|-------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Total Kjeldahl Nitrogen - N |   | 2 | mg/L  | 5.00                  | 4.62                   | 92                          | 85 - 115                      | 2014-01-09       |

---

## 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 | NELAP                | T104704221-12-3      | El Paso             |
| 2 | NELAP                | T104704219-13-9      | Lubbock             |

## Standard Flags


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

## Attachments

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


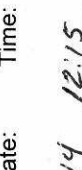





Company Name: D&H Petroleum & Environmental Services  
Address: (Street, City, Zip) 1221 Tower Trail Ln, El Paso TX 79907  
Contact Person: Victor Ayala  
Phone #: 915-859-8150  
Cell #: 915-859-8150  
Fax #: 915-859-8150  
E-mail: vajala@dhpump.com

Project Name: Linda Armstrong 575-233-3620  
Project #: 429539  
Project Location (including state): Dona Ana Dairies, PO Box 10, Mesquite, NM 88048  
Various Dairies, Dona Ana County, NM  
Sampler Signature: 

| LAB #  | Field Code | # Containers | Volume/Amount | MATRIX |      |     | PRESERVATIVE METHOD |     |                  |                                |      | SAMPLING |      |      |        |       |
|--------|------------|--------------|---------------|--------|------|-----|---------------------|-----|------------------|--------------------------------|------|----------|------|------|--------|-------|
|        |            |              |               | WATER  | SOIL | AIR | SLUDGE              | HCl | HNO <sub>3</sub> | H <sub>2</sub> SO <sub>4</sub> | NaOH | ICE      | NONE | DATE | TIME   |       |
| DAD-09 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-09 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-10 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-10 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-11 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-11 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-12 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-12 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-13 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-13 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-14 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-14 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-14 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-15 |            | 1            | 250ml         | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      | 1-2-14 | 11:18 |
| DAD-15 |            | 1            | 250ml         | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      | 2-2-14 | 11:18 |
| DAD-16 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |
| DAD-16 |            | 1            |               | X      |      |     |                     | X   | X                | X                              | X    | X        |      |      |        |       |

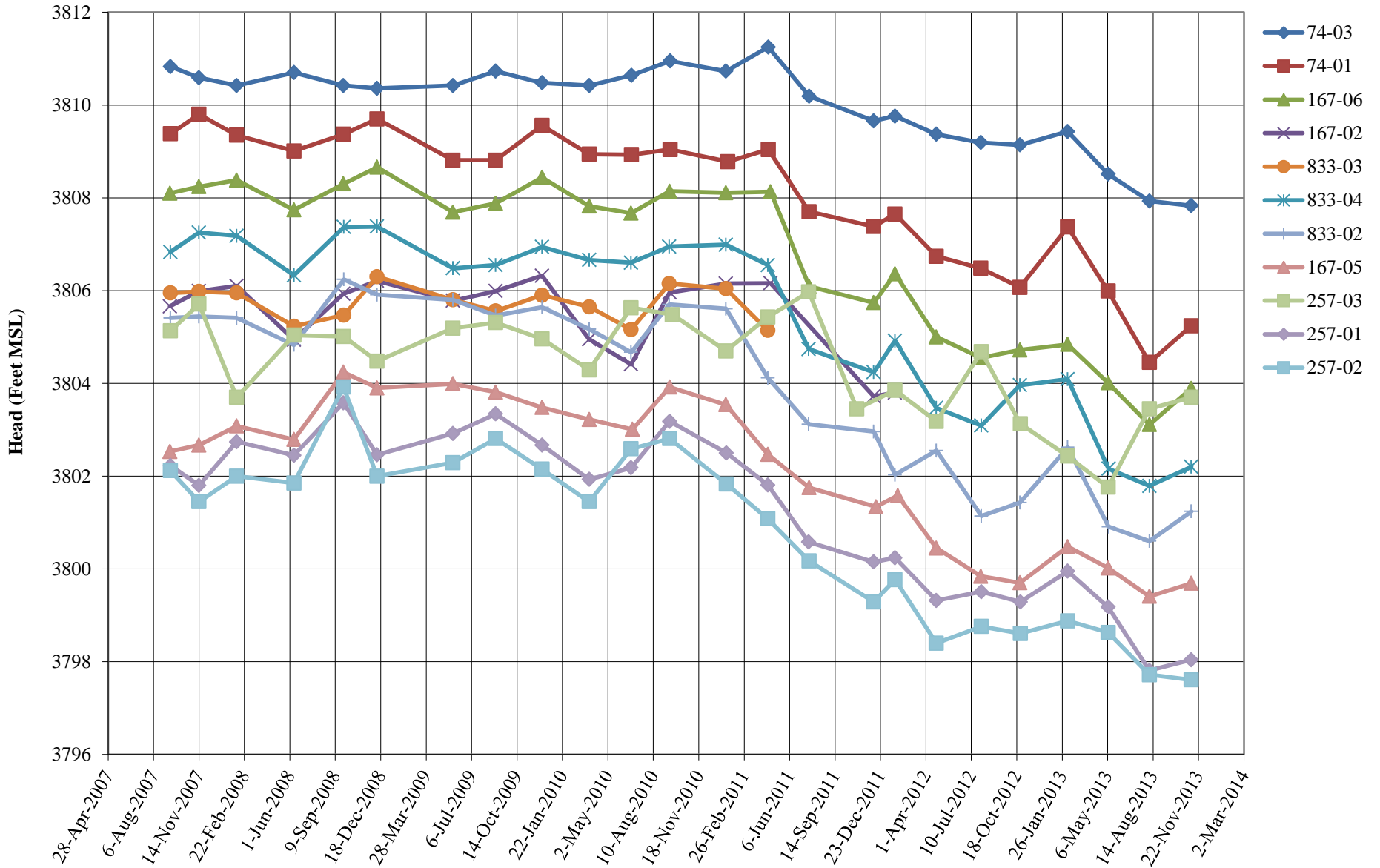
| LAB Order ID # | ANALYSIS REQUEST                     | Turn Around Time |
|----------------|--------------------------------------|------------------|
| 14010216       | PAH 8270 (Low Level Analysis)        |                  |
|                | PAH 8270C                            |                  |
|                | TX 1005 Extended (C35)               |                  |
|                | TPH 418.1 / TX1005                   |                  |
|                | BTEX 8021B/602                       |                  |
|                | MTBE 8021B/602                       |                  |
|                | Nitrates EPA 300                     |                  |
|                | TKN SM 4500 NORGC                    |                  |
|                | Chloride EPA 300                     |                  |
|                | Total Dissolved Solids SM 2540 C MOD |                  |

Relinquished By:  Date: 1-2-2014 12:15  
 Relinquished By:  Date: 1-2-14 12:15  
 Received By:  Date: 1-2-14 12:15  
 Received at Laboratory By:  Date: 1/4/14 9:00  
 Lab Use Only: Intact Y/N  
 Headspace Y/N  
 Temp 77.4°C  
 Log-in Review   
 Remarks: C1, NO3, TDS, in SP  
 25 48590276 1.4/1.3  
 Dry Weight Basis Required  
 TRRP Report Required

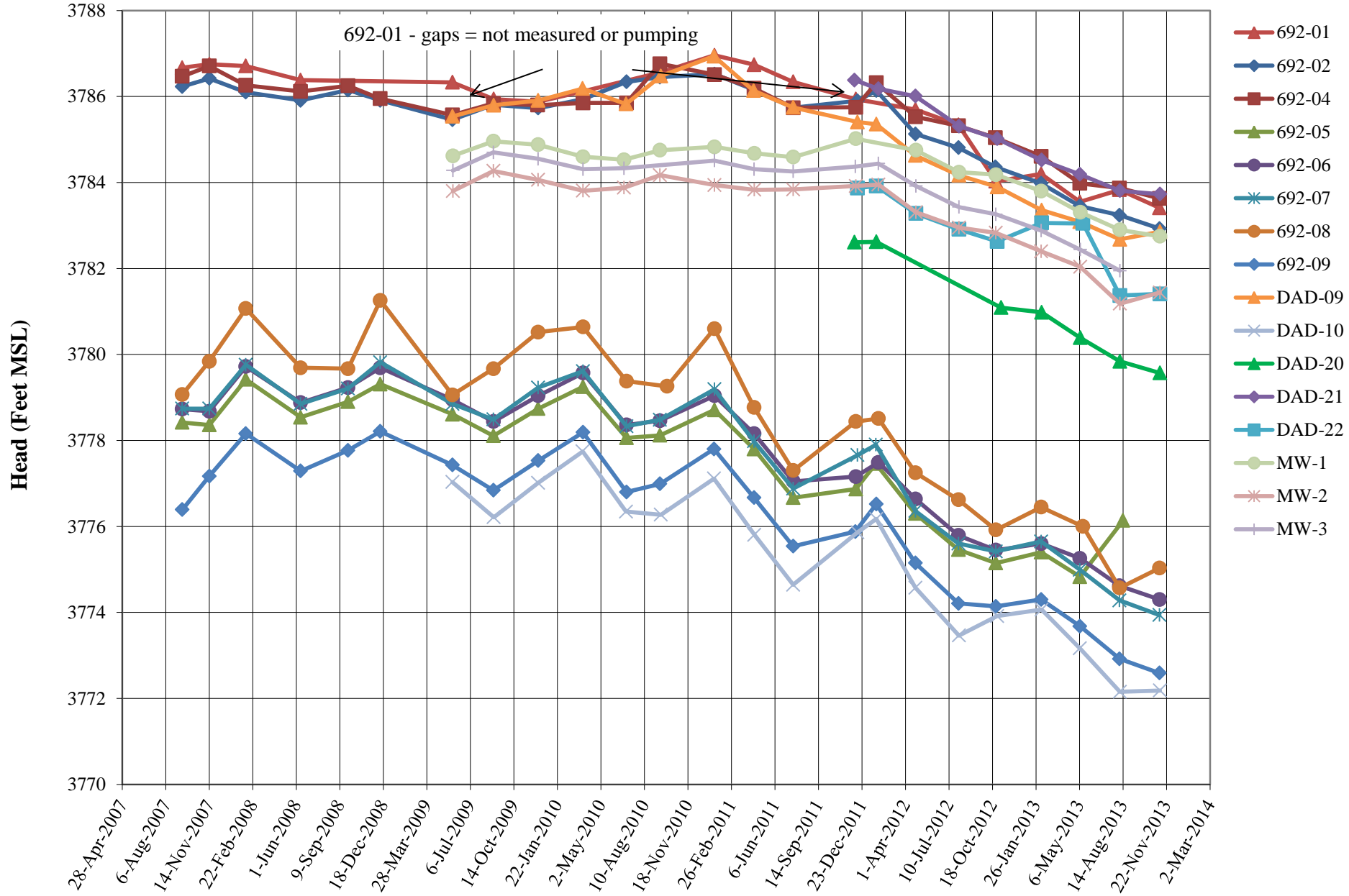
**APPENDIX C  
HYDROGRAPHS**



## HYDROGRAPHS FOR DP MONITORING WELLS CENTRAL PORTION



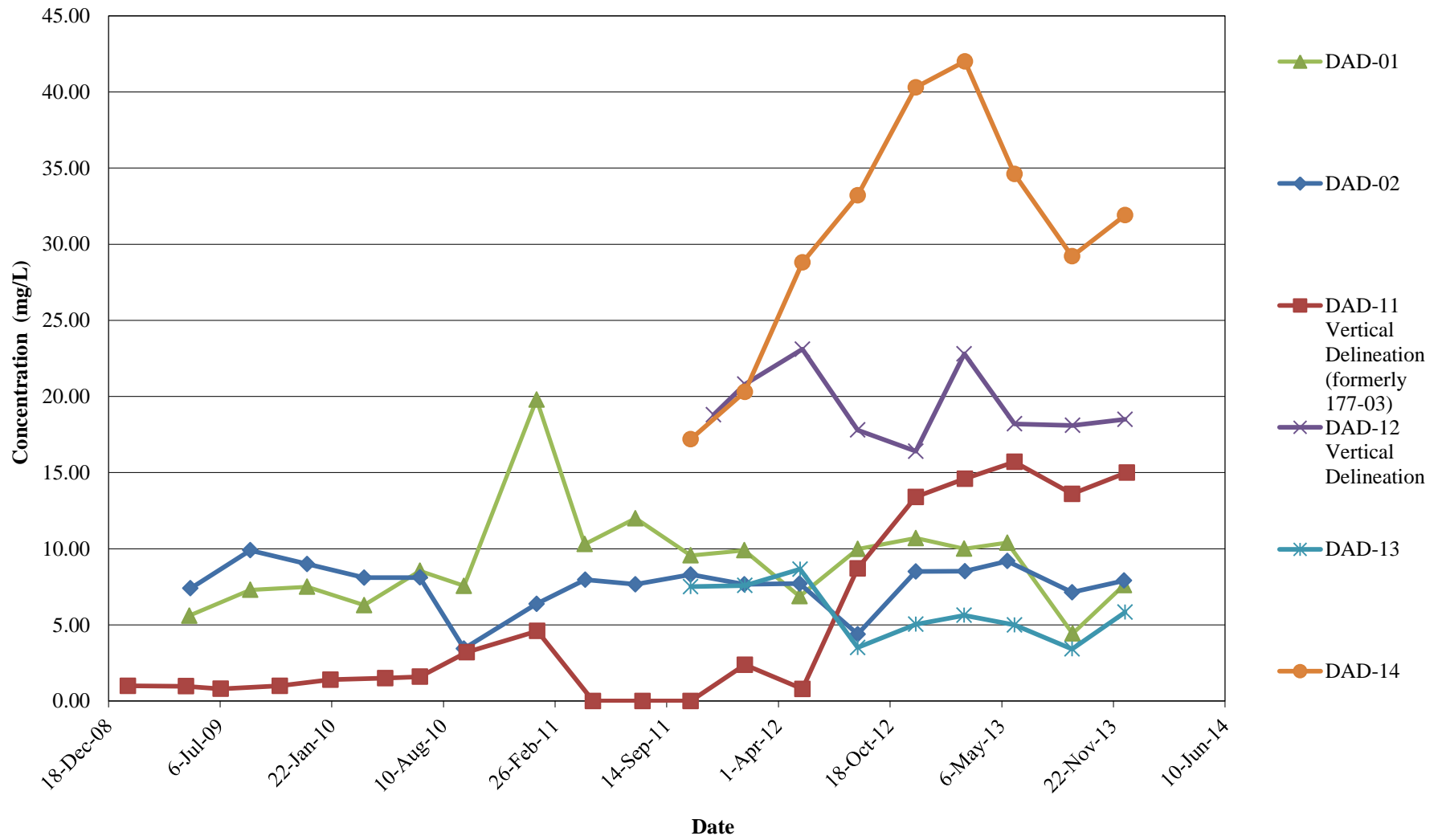
## HYDROGRAPHS FOR DP MONITORING WELLS SOUTHERN PORTION



**APPENDIX D  
CONCENTRATION TRENDS**

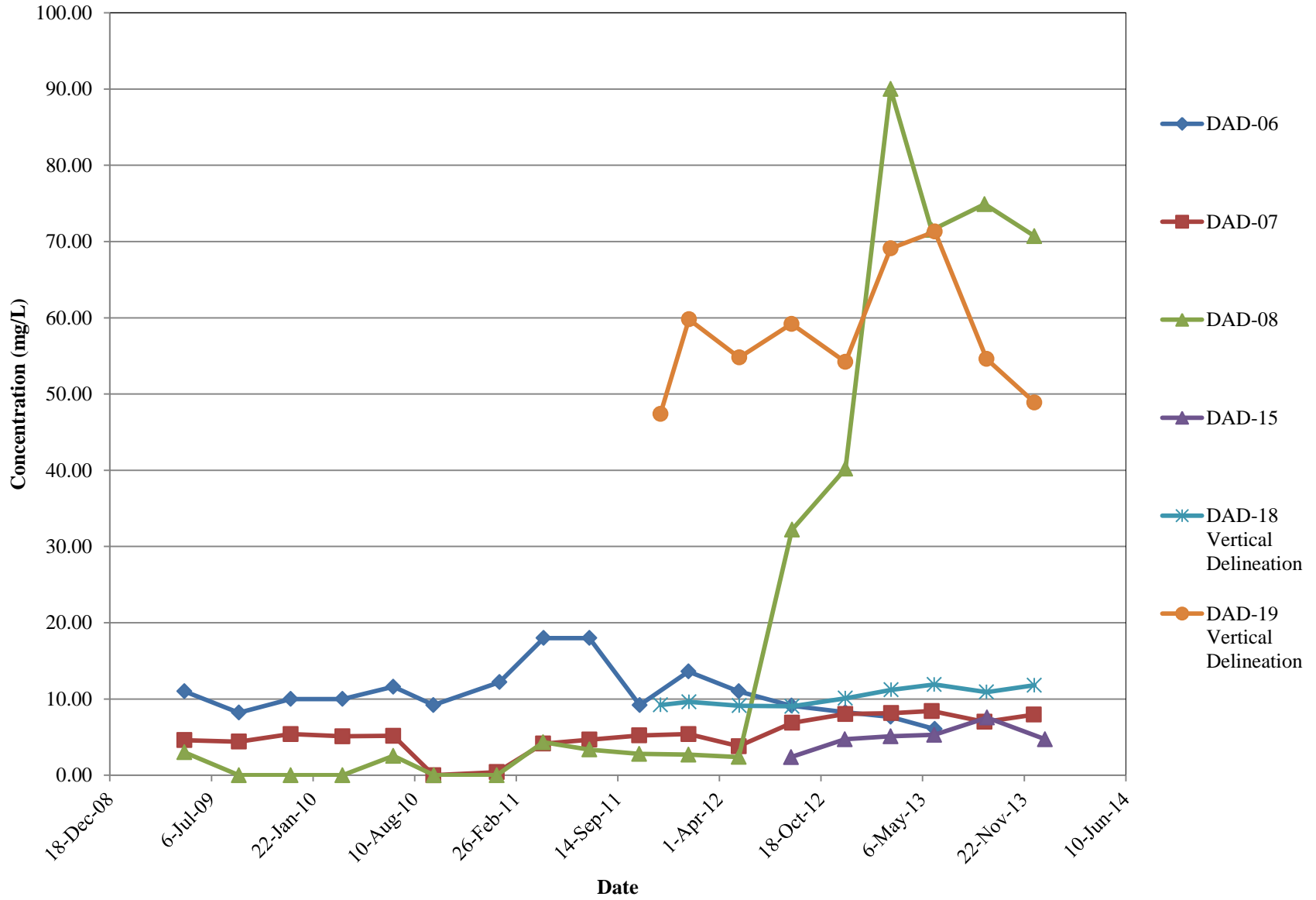


## NITRATE CONCENTRATION TRENDS IN SELECT NORTHERN DAD MONITORING WELLS

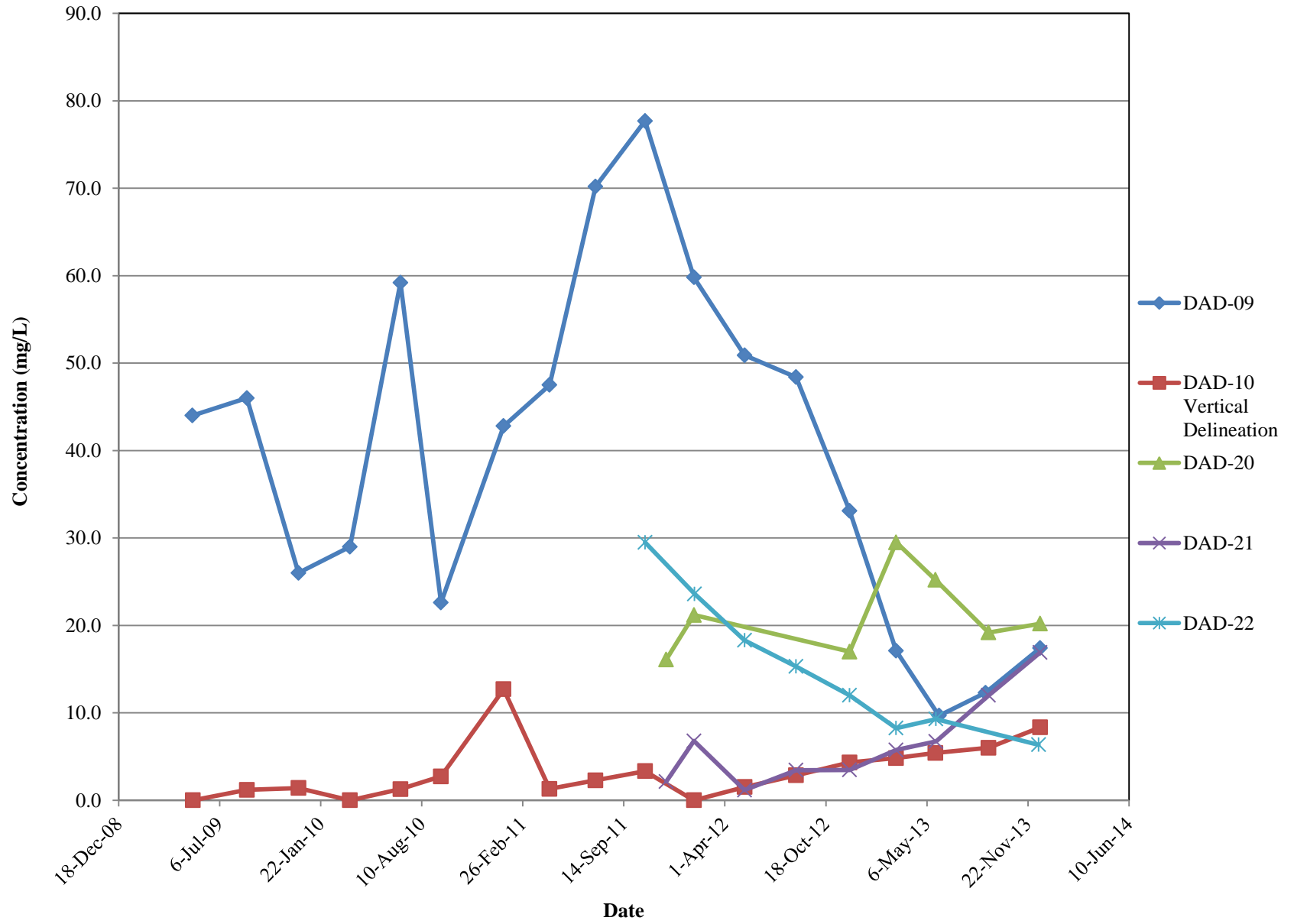




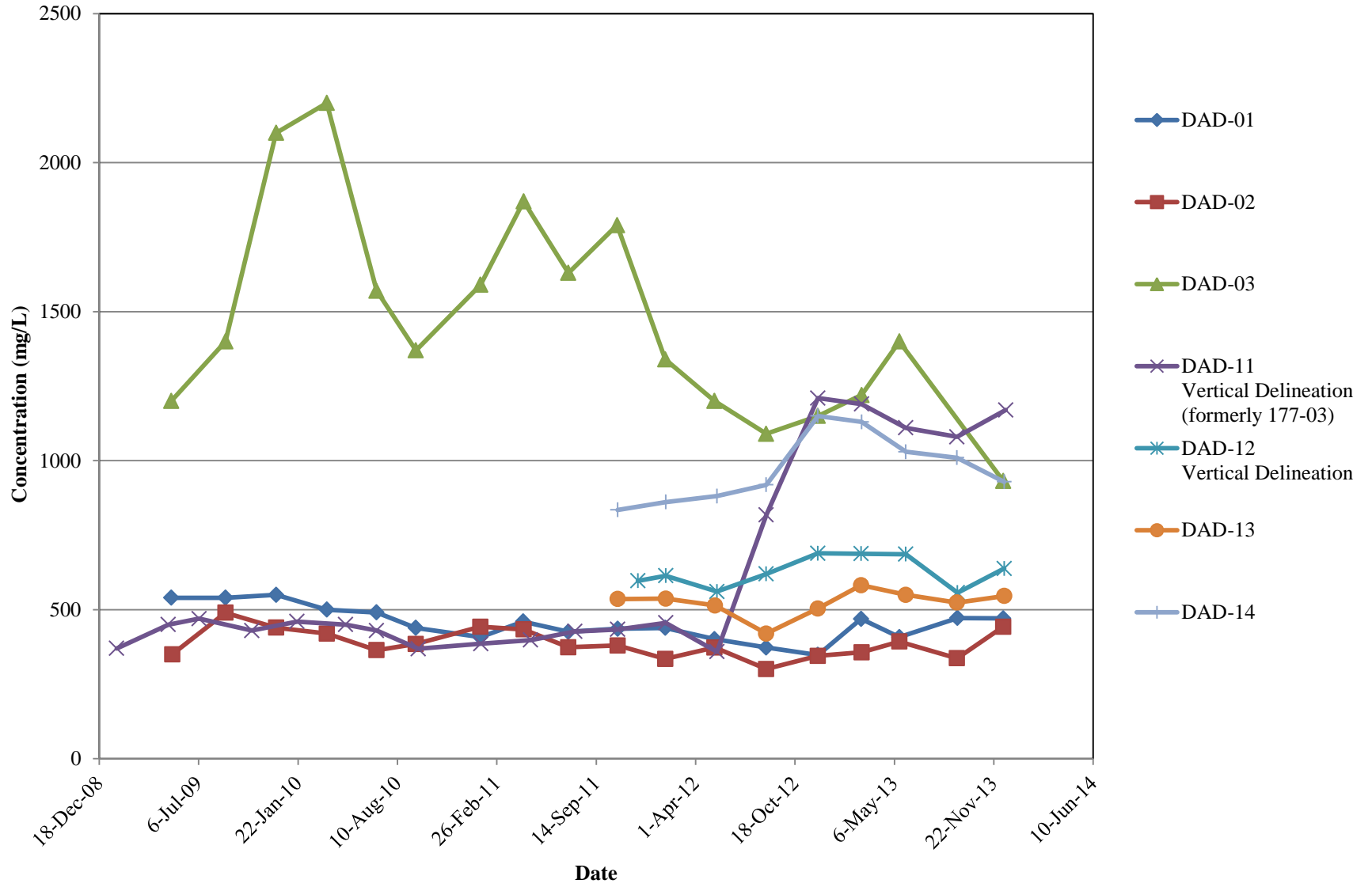
### NITRATE CONCENTRATION TRENDS IN SELECT CENTRAL DAD WELLS



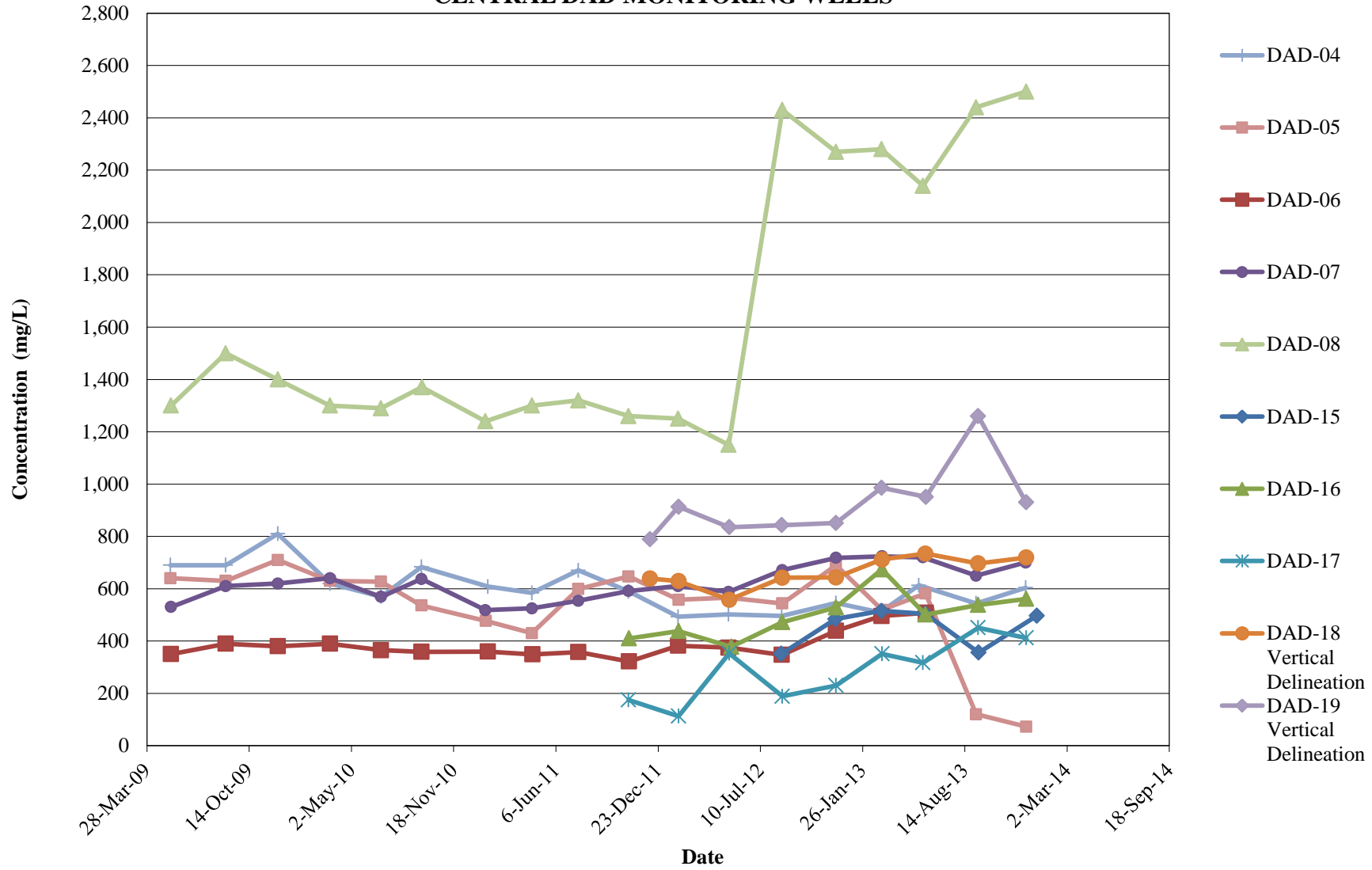
### NITRATE CONCENTRATION TRENDS IN SELECT SOUTHERN DAD WELLS



## CHLORIDE CONCENTRATION TRENDS NORTHERN DAD WELLS



### CHLORIDE CONCENTRATION TRENDS CENTRAL DAD MONITORING WELLS



# CHLORIDE CONCENTRATION TRENDS SOUTHERN DAD WELLS

