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May 15, 2014

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

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

Dear Messrs. Montes and Faris:

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

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

Sincerely,

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

Teri McMillan
Project Manager

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

Jay Snyder
Senior Hydrogeologist

Enclosure

Cc: Linda Armstrong, Doña Ana Dairies
File



QUARTERLY GROUNDWATER
MONITORING REPORT
DOÑA ANA DAIRIES
MESQUITE, NEW MEXICO

Prepared for:

Doña Ana Dairies
Mesquite, New Mexico

Prepared by:

EA Engineering, Science,
and Technology, Inc.
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Albuquerque, New Mexico 87102

May 2014

EA Project No. 1464103.0006



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Teri McMillan
Project Manager

05/15/14

Date

Jay Snyder
Senior Hydrogeologist

05/15/14

Date

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1.0 INTRODUCTION

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

1.1 Objective

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

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

- On February 12 through 17, 2014, two representatives from D&H Petroleum and Environmental Services, Inc. (D&H) gauged all discharge plan (DP) and abatement plan (AP) monitoring wells.
- Starting on February 18, 2014, D&H representatives collected groundwater samples from 21 of the 22 AP wells, each of the Dairies' DP monitoring wells, and DP specified lagoons. AP well DAD-06 did not contain enough water to sample. The sampling campaign lasted about one month. The samples were delivered to TraceAnalysis, Inc. and analyzed for nitrate using EPA Method 300.0 or SM 4500 NO₃ E, chloride by EPA Method 300.0, total dissolved solids (TDS) by Method SM 2540C, and total Kjeldhal nitrogen (TKN) by Method SM 4500 N org C;
- The most recent groundwater gauging and analytical results were compiled into this Quarterly Groundwater Monitoring Report.

1.2 Background

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

On December 11, 2006, on behalf of the Doña Ana Dairies, Golder Associates (Golder) submitted a Stage 1 and 2 Abatement Plan Proposal to address impacts to groundwater in the area of the Dairies (Golder 2006). The first major deliverable in the Abatement Plan Proposal

was an Existing Data Report (EDR) to bring together in one document historical data and practices of the constituent dairies.

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

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

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

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

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

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

A Stage 2 Abatement Plan was submitted to NMED on March 13, 2013. Based on an NMED response in August 2013, a Revision to the Stage 2 Abatement Plan was submitted in November 2013.

Quarterly groundwater monitoring is currently being conducted.

2.0 GROUNDWATER MONITORING ACTIVITIES

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

2.1 Well Gauging

On February 12 through 17, 2014, 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 March 3 through March 18, 2014, D&H sampled the AP monitoring wells DAD-01 through DAD-22 with disposable bailers with the exception of wells DAD-06, which was dry. Three well volumes were purged with new disposable bailers and rope from each well prior to sampling, unless the well contained insufficient water.

D&H sampled the DP wells from February 18 through March 14, 2014. Prior to sampling, the DP wells were purged three well volumes, if practicable, by hand-bailing with a new disposable bailer per well, by pumping with a pump and new polyethylene tubing, or pumping with a dedicated pump and tubing.

The wells were sampled from clean to dirty to the extent possible to minimize cross-contamination. All non-dedicated or disposable equipment was decontaminated between wells with an Alconox™ solution to further ensure sample quality. Field parameters including, at a minimum, specific conductance, pH, and temperature were monitored and recorded for most of the monitoring wells. The sampling field forms are presented in Appendix A. All meters were calibrated and/or checked with standards in accordance with manufacturer's specifications prior to daily use. Purge water was ground discharged.

All groundwater samples were collected immediately after purging. Sampling was either accomplished by carefully pouring groundwater from the bailer into the sample containers or by pumping groundwater through polyethylene tubing into the sample container. Sample containers were provided by TraceAnalysis. Container size, type, sample preservatives, analytical methods, and holding times are specified in Table 2. All samples were preserved in accordance with method requirements, labeled, then immediately cooled to <6°C with ice and delivered under chain-of-custody to TraceAnalysis in El Paso, Texas. All analytical laboratory reports are provided in Appendix B.

3.0 GROUNDWATER MONITORING RESULTS

3.1 Hydraulic Gradient and Direction of Groundwater Flow

This quarter, groundwater was present beneath the site at depths from 12.66 feet below top of casing (ft TOC) in Abatement well DAD-03 to 129.89 ft TOC in Dominguez #2 well 42-12. Groundwater was encountered at shallower depths near the Mesquite Drain and at greater depths near I-10 where the topographic elevation increases.

Potentiometric surface maps were completed using the monitoring well gauging data for the northern, central, and southern portions of the Dairies and are provided as Figures 2, 3, 4, and 5. Hydrographs were completed for select monitoring wells and are provided in Appendix C. In general, water levels have risen in most wells in the northern area with the exception of Dominguez and Gonzalez Dairies' wells where they continue to fall. Water levels have generally risen in the central and southern areas when compared to the last monitoring event conducted in November/December 2013 (See hydrographs presented in Appendix C). The long term decreases in water levels have resulted in many wells becoming dry.

The groundwater flow direction throughout the northern portion and the southern regional aquifer below 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 groundwater flow direction in the central portion is to the south. The hydraulic gradient across the Dairies is approximately 0.001 ft/ft.

3.2 Groundwater Analytical Results

3.2.1 Abatement Plan Well Results

Groundwater analyte concentrations were below the NMWQCC standard for nitrate (10 mg/L) in all but 8 of the 21 AP monitoring wells sampled. The AP wells that had nitrate concentrations above standards are DAD-08, DAD-11 (vertical delineation well), DAD-12 (vertical delineation well), DAD-14, DAD-18 (vertical delineation well), DAD-19 (vertical delineation well), DAD-20 and DAD-21. Both chloride and TDS concentrations exceeded their respective NMWQCC standards in all 21 wells sampled.

Nitrate concentrations generally increased in most of the DAD wells, with the exception of wells DAD-01, DAD-02, DAD-04, DAD-07, DAD-09, DAD-10, and DAD-11 where nitrate concentrations decreased. Well DAD-09 saw the largest decrease in nitrate concentrations decreasing from 17.4 mg/L in December 2013 to 3.44 mg/L for this monitoring event. AP well DAD-14 had the largest increase in nitrate concentrations since December 2013, increasing from 31.9 mg/L to 41.3 mg/L for this event. Nitrate concentrations, in the AP wells, ranged from 0.906 mg/L in well DAD-03 to 71.7 mg/L in well DAD-08 for this event.

Chloride concentrations and TDS, in all wells, remained relatively constant compared to levels measured in the past with the exception of well DAD-05. Chloride and TDS concentrations in well DAD-05 have been suspect for the previous two quarters, September and December 2013.

Chloride concentration in the AP wells range from 312 mg/L in well DAD-05 to 2,450 mg/L in well DAD-08 for this event, and TDS ranged from 1,480 mg/L in well DAD-09 to 6,400 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 7.75 mg/L. The upgradient well (northern land application well 86/340-1) had a nitrate concentration of 12.4 mg/L, which is 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 four quarters. Nitrate concentrations in the well nearest to Dominguez well 624-05, Day Break (Dominguez #2) well 42-02, has been decreasing over the last year and remained below standards from 9.62 mg/L in December 2013 to 9.28 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 3,400 mg/L and 8,380 mg/L, respectively.

Central Portion

The highest nitrate concentrations were observed in Big Sky Dairy wells 833-08 and 833-09 at concentrations of 100 mg/L and 125 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, decreased back below standards this quarter from 10.7 mg/L in December 2013, to 5.75 mg/L in February 2014. AP well DAD-17 defines the downgradient extent of the plume with a nitrate concentration of 3.27 mg/L, well below the NMDEQ standard (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. The highest chloride and TDS concentrations were observed at well DAD-08 at 2,450 mg/L and

6,400 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-20 and DAD-21 were above NMWQCC standards; however, the nitrate concentration in well DAD-09 decreased from 17.4 mg/L, in December 2013, to below standards at a concentration of 3.44 mg/L. The AP well DAD-22 nitrate concentration remained below standards with a nitrate concentration of 6.38 mg/L. The well with the highest nitrate concentration in the shallow perched aquifer is Del Oro Dairy well 692-02 with a concentration of 129 mg/L.

Chloride and TDS concentrations are above NMWQCC standards in all wells sampled within the southern portion. Chloride concentrations in this area ranged from 429 mg/L in Del Oro Dairy well 692-06 to 912 mg/L in well 692-02, while TDS ranged from 1,400 mg/L to 3,420 mg/L in Del Oro Dairy wells 692-06 and 692-02, respectively. Upgradient well Del Oro 692-08 had a chloride concentration of 435 mg/L and a TDS concentration of 1,430 mg/L.

4.0 CONCLUSION AND RECOMMENDATIONS

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

- The depth to groundwater at the site ranged from 12.66 to 129.89 feet below the top of casing.
- On average, water levels have decreased in the northern area and increased slightly in the central and southern areas when compared to the last monitoring event conducted in November 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 13 of the 21 groundwater samples collected from all the AP wells.
- Chloride was above the NMWQCC standard in all monitoring wells sampled.
- TDS was above the NMWQCC standard in all monitoring wells sampled.
- Chloride and TDS remain above standards in wells upgradient of the northern, central, and southern portions of the plume at the Dairies. Chloride and TDS are regionally elevated above standards and not necessarily attributed to the Dairies.

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

5.0 REFERENCES

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

TABLES

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
NORTHERN AREA						
Northern Land Application Area						
70-03	12-Feb-2014	424580.78	1510233.88	3871.43	55.26	3816.17
	6-Nov-2013				55.93	3815.50
	6-Aug-2013				54.52	3816.91
	7-May-2013				53.87	3817.56
	7-Feb-2013				53.46	3817.97
	24-Oct-2012				54.05	3817.38
	30-Jul-2012				53.70	3817.73
	23-Apr-2012				52.84	3818.59
	30-Jan-2012				51.41	3820.02
	8-Dec-2011				51.49	3819.94
	19-Jul-2011				50.77	3820.66
	20-Apr-2011				49.69	3821.74
	17-Jan-2011				48.70	3822.73
	14-Sep-2010				49.02	3822.41
	24-Jun-2010				48.99	3822.44
	22-Mar-2010				48.90	3822.53
	8-Dec-2009				48.72	3822.71
	28-Aug-2009				49.21	3822.22
	26-May-2009				48.91	3822.52
	11-Dec-2008				48.02	3823.41
28-Sep-2008	48.06	3823.37				
11-Jun-2008	49.20	3822.23				
5-Feb-2008	47.95	3823.48				
14-Nov-2007	48.10	3823.33				
12-Sep-2007	48.70	3822.73				
70/86/340-01	12-Feb-2014	427320.92	1508461.05	3866.77	48.95	3817.82
	6-Nov-2013				49.21	3817.56
	6-Aug-2013				46.44	3820.33
	7-May-2013				46.79	3819.98
	7-Feb-2013				46.49	3820.28
	24-Oct-2012				47.30	3819.47
	30-Jul-2012				46.84	3819.93
	23-Apr-2012				45.91	3820.86
	8-Dec-2011				45.17	3821.60
	19-Jul-2011				44.49	3822.28
	20-Apr-2011				43.15	3823.62
	17-Jan-2011				42.00	3824.77
	14-Sep-2010				41.79	3824.98
	24-Jun-2010				42.67	3824.10
	22-Mar-2010				42.21	3824.56
	8-Dec-2009				42.02	3824.75
	28-Aug-2009				42.39	3824.38
	26-May-2009				42.33	3824.44
	11-Dec-2008				41.15	3825.62
	28-Sep-2008				41.58	3825.19
11-Jun-2008	42.31	3824.46				
5-Feb-2008	41.07	3825.70				
14-Nov-2007	41.38	3825.39				
12-Sep-2007	41.46	3825.31				
86/340-01	12-Feb-2014	432021.33	1503216.90	3876.14	55.10	3821.04
	6-Nov-2013				55.78	3820.36
	6-Aug-2013				53.29	3822.85
	7-May-2013				52.65	3823.49
	7-Feb-2013				52.31	3823.83
	24-Oct-2012				53.16	3822.98
	30-Jul-2012				52.70	3823.44
	23-Apr-2012				52.20	3823.94
	30-Jan-2012				51.10	3825.04
	8-Dec-2011				51.20	3824.94
	19-Jul-2011				50.36	3825.78
	20-Apr-2011				48.91	3827.23
	17-Jan-2011				47.00	3829.14
	14-Sep-2010				47.63	3828.51
	24-Jun-2010				48.22	3827.92
	22-Mar-2010				47.66	3828.48
	8-Dec-2009				47.39	3828.75
	28-Aug-2009				47.75	3828.39
	26-May-2009				47.86	3828.28
	11-Dec-2008				46.68	3829.46
28-Sep-2008	47.44	3828.70				
11-Jun-2008	48.11	3828.03				
5-Feb-2008	46.68	3829.46				
14-Nov-2007	47.11	3829.03				
12-Sep-2007	47.85	3828.29				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Former Daybreak Dairy (Del Norte Dairy)						
126-04	12-Feb-2014	423258.23	1510546.24	3850.31	33.79	3816.52
	6-Nov-2013				34.32	3815.99
	6-Aug-2013				32.93	3817.38
	7-May-2013				32.01	3818.30
	7-Feb-2013				32.05	3818.26
	24-Oct-2012				32.58	3817.73
	30-Jul-2012				32.23	3818.08
	23-Apr-2012				31.46	3818.85
	26-Jan-2012				30.89	3819.42
	8-Dec-2011				30.84	3819.47
	19-Jul-2011				30.26	3820.05
	20-Apr-2011				29.09	3821.22
	17-Jan-2011				28.20	3822.11
	14-Sep-2010				28.60	3821.71
	24-Jun-2010				28.21	3822.10
	22-Mar-2010				28.33	3821.98
	8-Dec-2009				28.17	3822.14
	28-Aug-2009				28.50	3821.81
	26-May-2009				28.30	3822.01
	11-Dec-2008				27.56	3822.75
27-Sep-2008	27.96	3822.35				
10-Jun-2008	28.61	3821.70				
6-Feb-2008	27.53	3822.78				
14-Nov-2007	27.61	3822.70				
11-Sep-2007	28.19	3822.12				
126-05	12-Feb-2014	422293.26	1510649.84	3842.62	26.34	3816.28
	6-Nov-2013				26.67	3815.95
	6-Aug-2013				25.20	3817.42
	7-May-2013				24.65	3817.97
	7-Feb-2013				24.71	3817.91
	24-Oct-2012				24.96	3817.66
	30-Jul-2012				24.73	3817.89
	23-Apr-2012				24.21	3818.41
	26-Jan-2012				23.52	3819.10
	8-Dec-2011				23.50	3819.12
	19-Jul-2011				22.72	3819.90
	20-Apr-2011				21.74	3820.88
	21-Jan-2011				21.30	3821.32
	14-Sep-2010				20.91	3821.71
	24-Jun-2010				21.13	3821.49
	22-Mar-2010				21.06	3821.56
	8-Dec-2009				20.88	3821.74
	28-Aug-2009				20.83	3821.79
	26-May-2009				20.91	3821.71
	11-Dec-2008				20.29	3822.33
27-Sep-2008	20.42	3822.20				
10-Jun-2008	21.26	3821.36				
6-Feb-2008	20.34	3822.28				
14-Nov-2007	20.32	3822.30				
11-Sep-2007	20.74	3821.88				
126-07	12-Feb-2014	423613.62	1509986.47	3850.94	34.38	3816.56
	6-Nov-2013				34.89	3816.05
	6-Aug-2013				32.46	3818.48
	7-May-2013				32.33	3818.61
	7-Feb-2013				32.58	3818.36
	24-Oct-2012				32.97	3817.97
	30-Jul-2012				32.60	3818.34
	23-Apr-2012				31.84	3819.10
	26-Jan-2012				31.23	3819.71
	8-Dec-2011				31.28	3819.66
	19-Jul-2011				30.30	3820.64
	20-Apr-2011				28.59	3822.35
	27-Jan-2011				28.43	3822.51
	14-Sep-2010				28.45	3822.49
	24-Jun-2010				28.74	3822.20
	22-Mar-2010				28.57	3822.37
	8-Dec-2009				28.37	3822.57
	28-Aug-2009				28.61	3822.33
	26-May-2009				28.47	3822.47
	11-Dec-2008				27.70	3823.24
27-Sep-2008	27.97	3822.97				
10-Jun-2008	28.78	3822.16				
6-Feb-2008	27.71	3823.23				
14-Nov-2007	27.63	3823.31				
11-Sep-2007	28.06	3822.88				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
126-09	12-Feb-2014	425154.15	1510994.31	3893.35	76.14	3817.21
	6-Nov-2013				76.91	3816.44
	6-Aug-2013				76.09	3817.26
	7-May-2013				75.40	3817.95
	7-Feb-2013				74.61	3818.74
	24-Oct-2012				75.29	3818.06
	30-Jul-2012				74.98	3818.37
	23-Apr-2012				73.98	3819.37
	26-Jan-2012				72.24	3821.11
	8-Dec-2011				73.34	3820.01
	19-Jul-2011				73.19	3820.16
	20-Apr-2011				72.11	3821.24
	21-Jan-2011				71.00	3822.35
	14-Sep-2010				71.52	3821.83
	29-Jun-2010				72.23	3821.12
	22-Mar-2010				71.03	3822.32
	8-Dec-2009				70.94	3822.41
	28-Aug-2009				71.73	3821.62
	26-May-2009				71.12	3822.23
	11-Dec-2008				70.27	3823.08
27-Sep-2008	70.79	3822.56				
10-Jun-2008	71.47	3821.88				
6-Feb-2008	70.08	3823.27				
14-Nov-2007	70.46	3822.89				
11-Sep-2007	71.39	3821.96				
126-12	12-Feb-2014	421492.11	1510198.45	3838.88	22.46	3816.42
	6-Nov-2013				22.39	3816.49
	6-Aug-2013				21.44	3817.44
	7-May-2013				21.05	3817.83
	7-Feb-2013				20.92	3817.96
	24-Oct-2012				20.53	3818.35
	30-Jul-2012				20.48	3818.40
	23-Apr-2012				20.22	3818.66
	30-Jan-2012				19.79	3819.09
	8-Dec-2011				19.55	3819.33
	19-Jul-2011				18.27	3820.61
	20-Apr-2011				17.62	3821.26
	17-Jan-2011				17.00	3821.88
	16-Sep-2010				16.48	3822.40
	24-Jun-2010				17.30	3821.58
	24-Jun-2010				17.30	3821.58
	22-Mar-2010				17.19	3821.69
	8-Dec-2009				16.99	3821.89
	28-Aug-2009				16.49	3822.39
	26-May-2009				16.85	3822.03
11-Dec-2008	16.37	3822.51				
27-Sep-2008	16.29	3822.59				
10-Jun-2008	17.19	3821.69				
6-Feb-2008	16.62	3822.26				
14-Nov-2007	16.33	3822.55				
11-Sep-2007	16.56	3822.32				
126-13	12-Feb-2014	423431.96	1510657.41	3857.37	40.78	3816.59
	6-Nov-2013				41.35	3816.02
	6-Aug-2013				39.96	3817.41
	7-May-2013				39.01	3818.36
	7-Feb-2013				39.07	3818.30
	24-Oct-2012				39.60	3817.77
	30-Jul-2012				39.30	3818.07
	23-Apr-2012				38.52	3818.85
	26-Jan-2012				37.80	3819.57
	8-Dec-2011				37.86	3819.51
	19-Jul-2011				37.29	3820.08
	20-Apr-2011				35.23	3822.14
	13-Jan-2011				35.23	3822.14
	14-Sep-2010				35.66	3821.71
	24-Jun-2010				36.01	3821.36
	22-Mar-2010				35.40	3821.97
	8-Dec-2009				35.24	3822.13
	28-Aug-2009				35.60	3821.77
	26-May-2009				35.37	3822.00
	11-Dec-2008				34.62	3822.75
27-Sep-2008	34.99	3822.38				
10-Jun-2008	35.69	3821.68				
6-Feb-2008	NA	NA				
14-Nov-2007	16.33	3841.04				
11-Sep-2007	NA	NA				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Mountain View Dairy						
70-01	12-Feb-2014	423303.43	1510585.63	3851.84	35.33	3816.51
	6-Nov-2013				35.67	3816.17
	6-Aug-2013				34.19	3817.65
	7-May-2013				34.06	3817.78
	7-Feb-2013				33.58	3818.26
	24-Oct-2012				34.08	3817.76
	30-Jul-2012				33.80	3818.04
	23-Apr-2012				33.09	3818.75
	26-Jan-2012				32.29	3819.55
	8-Dec-2011				32.40	3819.44
	9-Jul-2011				31.77	3820.07
	20-Apr-2011				30.69	3821.15
	17-Jan-2011				29.72	3822.12
	14-Sep-2010				30.19	3821.65
	24-Jun-2010				29.30	3822.54
	22-Mar-2010				Unable to open well	
	8-Dec-2009				29.75	3822.09
	28-Aug-2009				30.08	3821.76
	26-May-2009				29.88	3821.96
	11-Dec-2008				29.13	3822.71
27-Sep-2008	29.79	3822.05				
10-Jun-2008	30.20	3821.64				
5-Feb-2008	29.10	3822.74				
13-Nov-2007	29.25	3822.59				
12-Sep-2007	29.77	3822.07				
70-02	12-Feb-2014	423412.73	1511192.51	3861.25	44.75	3816.50
	6-Nov-2013				45.31	3815.94
	6-Aug-2013				43.87	3817.38
	7-May-2013				43.16	3818.09
	7-Feb-2013				43.13	3818.12
	24-Oct-2012				43.66	3817.59
	30-Jul-2012				43.33	3817.92
	23-Apr-2012				42.60	3818.65
	26-Jan-2012				41.81	3819.44
	8-Dec-2011				41.89	3819.36
	19-Jul-2011				41.52	3819.73
	20-Apr-2011				40.46	3820.79
	17-Jan-2011				38.90	3822.35
	14-Sep-2010				39.96	3821.29
	24-Jun-2010				39.01	3822.24
	22-Mar-2010				39.54	3821.71
	8-Dec-2009				39.42	3821.83
	28-Aug-2009				39.81	3821.44
	26-May-2009				39.56	3821.69
	11-Dec-2008				38.84	3822.41
27-Sep-2008	39.20	3822.05				
10-Jun-2008	39.90	3821.35				
6-Feb-2008	39.77	3821.48				
14-Nov-2007	39.01	3822.24				
11-Sep-2007	39.60	3821.65				
70-04	12-Feb-2014	422798.94	1510922.20	3849.81	33.52	3816.29
	7-Nov-2013				34.05	3815.76
	6-Aug-2013				32.03	3817.78
	7-May-2013				31.80	3818.01
	7-Feb-2013				31.85	3817.96
Buena Vista Dairy I						
86-01	17-Feb-2014	421534.62	1511667.76	3864.96	48.87	3816.09
	6-Nov-2013				42.33	3822.63
	6-Aug-2013				47.43	3817.53
	7-May-2013				47.21	3817.75
	7-Feb-2013				47.35	3817.61
	24-Oct-2012				47.61	3817.35
	30-Jul-2012				47.26	3817.70
	23-Apr-2012				46.86	3818.10
	30-Jan-2012				46.34	3818.62
	8-Dec-2011				46.22	3818.74
	19-Jul-2011				45.66	3819.30
	20-Apr-2011				44.28	3820.68
	17-Jan-2011				44.30	3820.66
	16-Sep-2010				44.09	3820.87
	24-Jun-2010				44.39	3820.57
	22-Mar-2010				44.19	3820.77
	8-Dec-2009				43.89	3821.07
	28-Aug-2009				43.96	3821.00
	26-May-2009				44.03	3820.93
	11-Dec-2008				43.53	3821.43
28-Sep-2008	43.60	3821.36				
10-Jun-2008	44.44	3820.52				
5-Feb-2008	43.69	3821.27				
13-Nov-2007	43.78	3821.18				
12-Sep-2007	44.21	3820.75				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
86-02	12-Feb-2014	421792.08	1510881.53	3848.08	31.62	3816.46
	6-Nov-2013				31.68	3816.40
	6-Aug-2013				30.37	3817.71
	7-May-2013				30.13	3817.95
	7-Feb-2013				30.07	3818.01
	24-Oct-2012				29.71	3818.37
	30-Jul-2012				29.71	3818.37
	23-Apr-2012				29.43	3818.65
	30-Jan-2012				28.94	3819.14
	8-Dec-2011				28.77	3819.31
	19-Jul-2011				27.74	3820.34
	20-Apr-2011				27.18	3820.90
	17-Jan-2011				26.34	3821.74
	16-Sep-2010				26.18	3821.90
	24-Jun-2010				26.79	3821.29
	22-Mar-2010				26.54	3821.54
	8-Dec-2009				26.33	3821.75
	28-Aug-2009				26.11	3821.97
	26-May-2009				26.29	3821.79
	11-Dec-2008				25.77	3822.31
28-Sep-2008	25.78	3822.3				
10-Jun-2008	26.65	3821.43				
5-Feb-2008	26.95	3821.13				
13-Nov-2007	25.88	3822.2				
12-Sep-2007	26.19	3821.89				
Bright Star Dairy						
340-01	12-Feb-2014	421410.13	1511423.42	3858.48	42.30	3816.18
	6-Nov-2013				42.33	3816.15
	6-Aug-2013				41.21	3817.27
	7-May-2013				40.80	3817.68
	7-Feb-2013				40.75	3817.73
	24-Oct-2012				40.82	3817.66
	30-Jul-2012				40.44	3818.04
	23-Apr-2012				40.16	3818.32
	25-Jan-2012				39.70	3818.78
	8-Dec-2011				39.54	3818.94
	19-Jul-2011				38.74	3819.74
	20-Apr-2011				38.14	3820.34
	17-Jan-2011				37.33	3821.15
	14-Sep-2010				37.20	3821.28
	24-Jun-2010				38.05	3820.43
	22-Mar-2010				37.48	3821.00
	8-Dec-2009				37.26	3821.22
	28-Aug-2009				37.10	3821.38
	26-May-2009				37.26	3821.22
	11-Dec-2008				36.79	3821.69
27-Sep-2008	36.77	3821.71				
10-Jun-2008	37.63	3820.85				
6-Feb-2008	37.03	3821.45				
14-Nov-2007	37.00	3821.48				
11-Sep-2007	37.36	3821.12				
340-02	12-Feb-2014	420641.08	1512051.57	3869.76	53.80	3815.96
	6-Nov-2013				53.59	3816.17
	6-Aug-2013				52.92	3816.84
	7-May-2013				52.34	3817.42
	7-Feb-2013				52.29	3817.47
	24-Oct-2012				52.26	3817.50
	30-Jul-2012				51.67	3818.09
	23-Apr-2012				51.61	3818.15
	25-Jan-2012				51.31	3818.45
	8-Dec-2011				51.07	3818.69
	19-Jul-2011				50.24	3819.52
	20-Apr-2011				48.86	3820.90
	17-Jan-2011				49.00	3820.76
	14-Sep-2010				48.80	3820.96
	24-Jun-2010				49.67	3820.09
	22-Mar-2010				49.17	3820.59
	8-Dec-2009				49.03	3820.73
	28-Aug-2009				48.79	3820.97
	26-May-2009				48.94	3820.82
	11-Dec-2008				48.62	3821.14
28-Sep-2008	48.48	3821.28				
10-Jun-2008	49.30	3820.46				
5-Feb-2008	48.90	3820.86				
14-Nov-2007	48.84	3820.92				
12-Sep-2007	49.28	3820.48				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Former D&J Dairy (Dominguez 2)						
42-02	12-Feb-2014	419982.45	1511126.19	3844.69	27.97	3816.72
	6-Nov-2013				26.34	3818.35
	14-Aug-2013				26.66	3818.03
	7-May-2013				26.53	3818.16
	7-Feb-2013				26.48	3818.21
	24-Oct-2012				25.91	3818.78
	31-Jul-2012				25.05	3819.64
	23-Apr-2012				25.46	3819.23
	26-Jan-2012				25.71	3818.98
	8-Dec-2011				25.35	3819.34
	19-Jul-2011				23.15	3821.54
	19-Apr-2011				22.80	3821.89
	18-Jan-2011				23.30	3821.39
	15-Sep-2010				22.34	3822.35
	24-Jun-2010				22.84	3821.85
	22-Mar-2010				23.16	3821.53
	8-Dec-2009				22.87	3821.82
	28-Aug-2009				22.43	3822.26
	26-May-2009				22.73	3821.96
	11-Dec-2008				22.91	3821.78
	27-Sep-2008				22.28	3822.41
10-Jun-2008	23.12	3821.57				
6-Feb-2008	23.43	3821.26				
13-Nov-2007	23.00	3821.69				
12-Sep-2007	23.15	3821.54				
42-03	12-Feb-2014	419710.55	1514064.35	3898.46	83.40	3815.06
	6-Nov-2013				83.89	3814.57
	6-Aug-2013				82.46	3816.00
	7-May-2013				81.97	3816.49
	7-Feb-2013				82.01	3816.45
	24-Oct-2012				82.70	3815.76
	31-Jul-2012				82.49	3815.97
	23-Apr-2012				81.57	3816.89
	25-Jan-2012				81.18	3817.28
	8-Dec-2011				81.26	3817.20
	19-Jul-2011				81.33	3817.13
	19-Apr-2011				80.21	3818.25
	18-Jan-2011				79.33	3819.13
	15-Sep-2010				79.91	3818.55
	24-Jun-2010				81.12	3817.34
	22-Mar-2010				79.57	3818.89
	8-Dec-2009				79.12	3819.34
	28-Aug-2009				79.26	3819.20
	26-May-2009				79.42	3819.04
	11-Dec-2008				78.89	3819.57
	27-Sep-2008				78.91	3819.55
10-Jun-2008	79.91	3818.55				
6-Feb-2008	79.76	3818.70				
13-Nov-2007	79.15	3819.31				
12-Sep-2007	79.71	3818.75				
42-06	12-Feb-2014	420021.61	1511465.15	3850.15	33.85	3816.30
	6-Nov-2013				31.68	3818.47
	6-Aug-2013				31.24	3818.91
	7-May-2013				32.71	3817.44
	7-Feb-2013				32.30	3817.85
	24-Oct-2012				31.80	3818.35
	31-Jul-2012				31.15	3819.00
	23-Apr-2012				31.37	3818.78
	25-Jan-2012				31.51	3818.64
	8-Dec-2011				31.19	3818.96
	19-Jul-2011				29.37	3820.78
	19-Apr-2011				29.66	3820.49
	18-Jan-2011				29.18	3820.97
	15-Sep-2010				28.36	3821.79
	24-Jun-2010				28.96	3821.19
	22-Mar-2010				29.04	3821.11
	8-Dec-2009				28.90	3821.25
	28-Aug-2009				28.44	3821.71
	26-May-2009				28.70	3821.45
	11-Dec-2008				28.75	3821.40
	27-Sep-2008				28.27	3821.88
10-Jun-2008	29.03	3821.12				
6-Feb-2008	29.24	3820.91				
13-Nov-2007	28.87	3821.28				
12-Sep-2007	29.03	3821.12				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
42-07	12-Feb-2014	420584.8	1513076.66	3891.52	Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	24-Oct-2012				Dry	
	31-Jul-2012				Dry	
	23-Apr-2012				Dry	
	25-Jan-2012				Dry	
	8-Dec-2011				Dry	
	19-Jul-2011				Dry	
	19-Apr-2011				72.19	3819.33
	18-Jan-2011				71.37	3820.15
	15-Sep-2010				71.64	3819.88
	24-Jun-2010				72.24	3819.28
	22-Mar-2010				71.43	3820.09
	8-Dec-2009				71.26	3820.26
	28-Aug-2009				71.26	3820.26
	26-May-2009				71.31	3820.21
	11-Dec-2008				70.87	3820.65
27-Sep-2008	70.95	3820.57				
10-Jun-2008	71.71	3819.81				
6-Feb-2008	71.00	3820.52				
13-Nov-2007	71.12	3820.40				
12-Sep-2007	71.61	3819.91				
42-08	12-Feb-2014	419994.93	1511197.91	3846.53	29.98	3816.55
	6-Nov-2013				28.26	3818.27
	6-Aug-2013				27.97	3818.56
	7-May-2013				28.69	3817.84
	7-Feb-2013				28.43	3818.10
	24-Oct-2012				27.92	3818.61
	31-Jul-2012				27.11	3819.42
	23-Apr-2012				27.51	3819.02
	26-Jan-2012				27.68	3818.85
	8-Dec-2011				27.33	3819.20
	19-Jul-2011				25.24	3821.29
	19-Apr-2011				25.72	3820.81
	18-Jan-2011				25.28	3821.25
	15-Sep-2010				24.37	3822.16
	24-Jun-2010				24.91	3821.62
	22-Mar-2010				25.15	3821.38
	8-Dec-2009				24.91	3821.62
	28-Aug-2009				24.46	3822.07
	26-May-2009				24.75	3821.78
	11-Dec-2008				24.88	3821.65
27-Sep-2008	24.30	3822.23				
10-Jun-2008	25.13	3821.40				
6-Feb-2008	25.41	3821.12				
13-Nov-2007	25.00	3821.53				
12-Sep-2007	25.13	3821.40				
42-09	12-Feb-2014	419729.17	1512255.76	3865.25	49.36	3815.89
	6-Nov-2013				48.23	3817.02
	6-Aug-2013				47.88	3817.37
	7-May-2013				48.04	3817.21
	7-Feb-2013				47.79	3817.46
	24-Oct-2012				47.29	3817.96
	31-Jul-2012				46.98	3818.27
	23-Apr-2012				46.93	3818.32
	25-Jan-2012				46.95	3818.30
	8-Dec-2011				46.76	3818.49
	19-Jul-2011				45.54	3819.71
	19-Apr-2011				45.38	3819.87
	18-Jan-2011				44.87	3820.38
	15-Sep-2010				44.21	3821.04
	24-Jun-2010				44.99	3820.26
	22-Mar-2010				44.72	3820.53
	8-Dec-2009				44.70	3820.55
	28-Aug-2009				44.32	3820.93
	26-May-2009				44.50	3820.75
	11-Dec-2008				44.39	3820.86
27-Sep-2008	44.12	3821.13				
10-Jun-2008	44.77	3820.48				
6-Feb-2008	44.80	3820.45				
13-Nov-2007	44.47	3820.78				
12-Sep-2007	44.73	3820.52				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
42-10	12-Feb-2014	421426.39	1514460.4	3929.28	113.97	3815.31
	6-Nov-2013				115.21	3814.07
	6-Aug-2013				113.03	3816.25
	7-May-2013				112.81	3816.47
	7-Feb-2013				112.29	3816.99
	24-Oct-2012				112.95	3816.33
	31-Jul-2012				112.87	3816.41
	23-Apr-2012				111.87	3817.41
	25-Jan-2012				110.98	3818.30
	8-Dec-2011				111.16	3818.12
	19-Jul-2011				111.21	3818.07
	19-Apr-2011				110.06	3819.22
	18-Jan-2011				109.19	3820.09
	15-Sep-2010				110.24	3819.04
	27-Jun-2010				110.35	3818.93
	22-Mar-2010				109.47	3819.81
	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	12-Feb-2014	420693.98	1515270.32	3939.31	123.96	3815.35
	6-Nov-2013				125.37	3813.94
	6-Aug-2013				124.06	3815.25
	7-May-2013				123.24	3816.07
	7-Feb-2013				122.91	3816.40
	24-Oct-2012				123.44	3815.87
	31-Jul-2012				123.11	3816.20
	23-Apr-2012				122.09	3817.22
	25-Jan-2012				121.67	3817.64
	8-Dec-2011				121.83	3817.48
	19-Jul-2011				121.73	3817.58
	19-Apr-2011				120.64	3818.67
	18-Jan-2011				120.01	3819.30
	15-Sep-2010				121.02	3818.29
	27-Jun-2010				121.05	3818.26
	22-Mar-2010				120.18	3819.13
	8-Dec-2009				120.21	3819.10
	28-Aug-2009				120.51	3818.80
	26-May-2009				120.35	3818.96
	11-Dec-2008				119.88	3819.43
27-Sep-2008	120.29	3819.02				
11-Jun-2008	120.57	3818.74				
6-Feb-2008	119.84	3819.47				
14-Nov-2007	120.24	3819.07				
12-Sep-2007	120.74	3818.57				
42-12	12-Feb-2014	420972.09	1515423.88	3945.83	129.89	3815.94
	6-Nov-2013				131.11	3814.72
	6-Aug-2013				130.08	3815.75
	7-May-2013				129.59	3816.24
	7-Feb-2013				129.18	3816.65
	24-Oct-2012				129.74	3816.09
	31-Jul-2012				129.44	3816.39
	23-Apr-2012				128.71	3817.12
	25-Jan-2012				128.06	3817.77
	8-Dec-2011				128.14	3817.69
	19-Jul-2011				128.01	3817.82
	19-Apr-2011				126.37	3819.46
	18-Jan-2011				126.37	3819.46
	15-Sep-2010				127.38	3818.45
	27-Jun-2010				127.43	3818.40
	22-Mar-2010				126.50	3819.33
	8-Dec-2009				126.60	3819.23
	28-Aug-2009				126.84	3818.99
	26-May-2009				126.68	3819.15
	11-Dec-2008				126.18	3819.65
27-Sep-2008	126.68	3819.15				
11-Jun-2008	126.88	3818.95				
6-Feb-2008	126.16	3819.67				
14-Nov-2007	126.55	3819.28				
12-Sep-2007	127.04	3818.79				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
42-13	17-Feb-2014	419734.06	1512534.42	3873.10	57.38	3815.72
	6-Nov-2013				56.31	3816.79
	6-Aug-2013				56.01	3817.09
	7-May-2013				56.02	3817.08
	7-Feb-2013				55.86	3817.24
	24-Oct-2012				55.40	3817.70
	31-Jul-2012				55.17	3817.93
	23-Apr-2012				54.96	3818.14
	25-Jan-2012				54.99	3818.11
	8-Dec-2011				54.83	3818.27
	19-Jul-2011				53.77	3819.33
	19-Apr-2011				53.50	3819.60
	18-Jan-2011				52.95	3820.15
	15-Sep-2010				52.44	3820.66
	24-Jun-2010				53.21	3819.89
	22-Mar-2010				52.84	3820.26
	8-Dec-2009				52.79	3820.31
	28-Aug-2009				52.45	3820.65
	26-May-2009				52.64	3820.46
	11-Dec-2008				52.49	3820.61
27-Sep-2008	52.23	3820.87				
10-Jun-2008	52.91	3820.19				
6-Feb-2008	52.84	3820.26				
13-Nov-2007	52.56	3820.54				
12-Sep-2007	52.83	3820.27				
Dominguez Dairy						
624-01	12-Feb-2014	418826.21	1512131.46	3843.72	28.10	3815.62
	7-Nov-2013				26.34	3817.38
	6-Aug-2013				25.98	3817.74
	7-May-2013				26.21	3817.51
	7-Feb-2013				26.39	3817.33
	24-Oct-2012				25.89	3817.83
	30-Jul-2012				26.12	3817.60
	24-Apr-2012				26.02	3817.70
	25-Jan-2012				25.51	3818.21
	7-Dec-2011				25.19	3818.53
	19-Jul-2011				23.22	3820.50
	19-Apr-2011				23.75	3819.97
	18-Jan-2011				23.53	3820.19
	15-Sep-2010				21.40	3822.32
	24-Jun-2010				22.48	3821.24
	22-Mar-2010				22.83	3820.89
	8-Dec-2009				23.33	3820.39
	28-Aug-2009				22.72	3821.00
	27-May-2009				22.92	3820.80
	11-Dec-2008				23.11	3820.61
27-Sep-2008	22.62	3821.10				
10-Jun-2008	22.72	3821.00				
5-Feb-2008	23.64	3820.08				
13-Nov-2007	22.87	3820.85				
12-Sep-2007	22.94	3820.78				
624-02	12-Feb-2014	417335.25	1512201.42	3835.45	20.00	3815.45
	7-Nov-2013				18.60	3816.85
	6-Aug-2013				18.83	3816.62
	7-May-2013				19.01	3816.44
	7-Feb-2013				19.10	3816.35
	24-Oct-2012				18.85	3816.60
	30-Jul-2012				18.59	3816.86
	23-Apr-2012				17.97	3817.48
	24-Jan-2012				17.16	3818.29
	7-Dec-2011				17.30	3818.15
	19-Jul-2011				15.23	3820.22
	19-Apr-2011				15.94	3819.51
	17-Jan-2011				15.66	3819.79
	20-Sep-2010				14.04	3821.41
	24-Jun-2010				13.93	3821.52
	22-Mar-2010				15.24	3820.21
	8-Dec-2009				15.61	3819.84
	28-Aug-2009				14.85	3820.60
	27-May-2009				15.14	3820.31
	11-Dec-2008				15.47	3819.98
27-Sep-2008	14.97	3820.48				
10-Jun-2008	14.87	3820.58				
5-Feb-2008	16.50	3818.95				
13-Nov-2007	15.40	3820.05				
12-Sep-2007	14.94	3820.51				

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

Monitoring Well	Date Measured	Northing ^a	Eastings ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
624-04	12-Feb-2014	418542.24	1508104.07	3835.69	Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	24-Oct-2012				Dry	
	30-Jul-2012				Dry	
	23-Apr-2012				Dry	
	25-Jan-2012				Dry	
	8-Dec-2011				Dry	
	19-Jul-2011				15.39	3820.30
	19-Apr-2011				13.66	3822.03
	18-Jan-2011				13.99	3821.70
	15-Sep-2010				11.43	3824.26
	24-Jun-2010				13.49	3822.20
	22-Mar-2010				14.83	3820.86
	8-Dec-2009				13.48	3822.21
	28-Aug-2009				12.49	3823.20
	26-May-2009				12.89	3822.80
	11-Dec-2008				12.99	3822.70
	27-Sep-2008				12.31	3823.38
10-Jun-2008	14.45	3821.24				
5-Feb-2008	14.13	3821.56				
13-Nov-2007	13.60	3822.09				
12-Sep-2007	14.83	3820.86				
624-05	12-Feb-2014	419777.52	1509829.65	3835.27	Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				16.72	3818.55
	24-Oct-2012				16.35	3818.92
	30-Jul-2012				15.89	3819.38
	23-Apr-2012				15.90	3819.37
	25-Jan-2012				15.81	3819.46
	7-Dec-2011				15.25	3820.02
	3-Aug-2011				13.38	3821.89
	19-Apr-2011				13.86	3821.41
	18-Jan-2011				13.11	3822.16
	15-Sep-2010				12.01	3823.26
	24-Jun-2010				12.71	3822.56
	22-Mar-2010				13.21	3822.06
	8-Dec-2009				12.54	3822.73
	28-Aug-2009				12.03	3823.24
	26-May-2009				12.58	3822.69
	11-Dec-2008				12.82	3822.45
	27-Sep-2008				11.97	3823.30
10-Jun-2008	13.19	3822.08				
5-Feb-2008	13.44	3821.83				
13-Nov-2007	13.01	3822.26				
12-Sep-2007	13.31	3821.96				
624-06	12-Feb-2014	418502.42	1513981.08	3868.18	Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				51.84	3816.34
	24-Oct-2012				51.99	3816.19
	30-Jul-2012				51.30	3816.88
	23-Apr-2012				51.83	3816.35
	25-Jan-2012				51.80	3816.38
	13-Dec-2011				50.89	3817.29
	19-Jul-2011				50.43	3817.75
	19-Apr-2011				49.79	3818.39
	18-Jan-2011				49.31	3818.87
	21-Sep-2010				48.73	3819.45
	24-Jun-2010				50.33	3817.85
	22-Mar-2010				49.62	3818.56
	8-Dec-2009				48.96	3819.22
	28-Aug-2009				48.87	3819.31
	26-May-2009				49.14	3819.04
	11-Dec-2008				48.89	3819.29
	27-Sep-2008				48.71	3819.47
10-Jun-2008	49.67	3818.51				
5-Feb-2008	49.11	3819.07				
13-Nov-2007	48.94	3819.24				
12-Sep-2007	49.17	3819.01				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
624-07	12-Feb-2014	418012.23	1514707.77	3872.25	55.62	3816.63
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	24-Oct-2012				55.58	3816.67
	30-Jul-2012				55.47	3816.78
	23-Apr-2012				Dry	
	25-Jan-2012				55.50	3816.75
	13-Dec-2011				55.46	3816.79
	19-Jul-2011				54.55	3817.70
	19-Apr-2011				54.64	3817.61
	18-Jan-2011				53.91	3818.34
	15-Sep-2010				52.30	3819.95
	24-Jun-2010				55.27	3816.98
	22-Mar-2010				54.21	3818.04
	8-Dec-2009				53.32	3818.93
	28-Aug-2009				53.22	3819.03
	26-May-2009				53.76	3818.49
	11-Dec-2008				53.59	3818.66
	27-Sep-2008				53.35	3818.90
	10-Jun-2008				54.34	3817.91
	5-Feb-2008				53.81	3818.44
13-Nov-2007	53.26	3818.99				
12-Sep-2007	53.03	3819.22				
624-08	12-Feb-2014	421461.78	1507712.04	3838.70	Dry	
	7-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	24-Oct-2012				Dry	
	30-Jul-2012				Dry	
	23-Apr-2012				Dry	
	25-Jan-2012				Dry	
	8-Dec-2011				Dry	
	3-Aug-2011				Dry	
	18-Apr-2011				17.72	3820.98
	18-Jan-2011				16.03	3822.67
	14-Sep-2010				14.83	3823.87
	24-Jun-2010				16.44	3822.26
	22-Mar-2010				16.42	3822.28
	8-Dec-2009				16.02	3822.68
	28-Aug-2009				15.20	3823.50
	26-May-2009				15.54	3823.16
	11-Dec-2008				14.96	3823.74
	27-Sep-2008				14.84	3823.86
	10-Jun-2008				16.12	3822.58
	5-Feb-2008				15.37	3823.33
13-Nov-2007	14.71	3823.99				
12-Sep-2007	15.33	3823.37				
Gonzalez Dairy						
177-01	12-Feb-2014	417300.94	1512942.63	3834.27	19.05	3815.22
	7-Nov-2013				17.97	3816.30
	6-Aug-2013				17.01	3817.26
	7-May-2013				17.81	3816.46
	7-Feb-2013				17.77	3816.50
	25-Oct-2012				15.91	3818.36
	30-Jul-2012				14.88	3819.39
	23-Apr-2012				16.32	3817.95
	26-Jan-2012				16.71	3817.56
	7-Dec-2011				16.36	3817.91
	19-Jul-2011				14.64	3819.63
	19-Apr-2011				14.84	3819.43
	17-Jan-2011				14.43	3819.84
	15-Sep-2010				13.30	3820.97
	23-Jun-2010				14.11	3820.16
	22-Mar-2010				14.75	3819.52
	8-Dec-2009				14.68	3819.59
	28-Aug-2009				14.16	3820.11
	26-May-2009				14.35	3819.92
	10-Dec-2008				14.64	3819.63
	27-Sep-2008				14.21	3820.06
	10-Jun-2008				14.50	3819.77
	6-Feb-2008				15.06	3819.21
13-Nov-2007	14.53	3819.74				
13-Sep-2007	14.03	3820.24				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b			
177-02	12-Feb-2014	416738.21	1513246.51	3834.66	19.72	3814.94			
	7-Nov-2013				18.66	3816.00			
	6-Aug-2013				18.30	3816.36			
	7-May-2013				18.69	3815.97			
	7-Feb-2013				18.50	3816.16			
	25-Oct-2012				17.35	3817.31			
	30-Jul-2012				17.80	3816.86			
	24-Jan-2012				17.61	3817.05			
	7-Dec-2011				16.92	3817.74			
	19-Jul-2011				15.41	3819.25			
	19-Apr-2011				15.47	3819.19			
	17-Jan-2011				14.94	3819.72			
	15-Sep-2010				14.23	3820.43			
	23-Jun-2010				14.86	3819.80			
	22-Mar-2010				15.59	3819.07			
	8-Dec-2009				15.29	3819.37			
	28-Aug-2009				14.90	3819.76			
	26-May-2009				15.09	3819.57			
	10-Dec-2008				15.37	3819.29			
	27-Sep-2008				14.95	3819.71			
10-Jun-2008	15.41	3819.25							
6-Feb-2008	15.74	3818.92							
13-Nov-2007	15.39	3819.27							
13-Sep-2007	14.72	3819.94							
177-03A	12-Feb-2014	416206.71	1513777.17	3835.75	21.41	3814.34			
	7-Nov-2013				20.29	3815.46			
	6-Aug-2013				19.99	3815.76			
	7-May-2013				20.53	3815.22			
	7-Feb-2013				20.01	3815.74			
	25-Oct-2012				19.18	3816.57			
	30-Jul-2012				18.24	3817.51			
	24-Apr-2012				18.57	3817.18			
	24-Jan-2012				18.63	3817.12			
	13-Dec-2011				18.51	3817.24			
	12-Feb-2014				416796.99	1513733.28	3840.33	25.62	3814.71
	7-Nov-2013							24.75	3815.58
	6-Aug-2013							24.12	3816.21
7-May-2013	24.67	3815.66							
7-Feb-2013	24.29	3816.04							
25-Oct-2012	23.49	3816.84							
30-Jul-2012	22.68	3817.65							
24-Apr-2012	23.36	3816.97							
24-Jan-2012	22.47	3817.86							
7-Dec-2011	22.97	3817.36							
19-Jul-2011	21.66	3818.67							
19-Apr-2011	21.41	3818.92							
17-Jan-2011	21.22	3819.11							
15-Sep-2010	20.36	3819.97							
23-Jun-2010	21.05	3819.28							
22-Mar-2010	21.71	3818.62							
8-Dec-2009	21.14	3819.19							
28-Aug-2009	20.86	3819.47							
27-May-2009	21.13	3819.20							
10-Dec-2008	21.37	3818.96							
27-Sep-2008	20.86	3819.47							
10-Jun-2008	21.63	3818.70							
6-Feb-2008	21.59	3818.74							
13-Nov-2007	21.30	3819.03							
13-Sep-2007	20.84	3819.49							
177-05	12-Feb-2014	417302.42	1514116.55	3852.16	37.51	3814.65			
	6-Nov-2013				36.95	3815.21			
	6-Aug-2013				36.02	3816.14			
	7-May-2013				36.74	3815.42			
	7-Feb-2013				36.21	3815.95			
	25-Oct-2012				35.72	3816.44			
	30-Jul-2012				36.39	3815.77			
	24-Apr-2012				36.04	3816.12			
	24-Jan-2012				35.02	3817.14			
	7-Dec-2011				35.19	3816.97			
	19-Jul-2011				34.07	3818.09			
	19-Apr-2011				32.91	3819.25			
	17-Jan-2011				33.72	3818.44			
	15-Sep-2010				32.68	3819.48			
	23-Jun-2010				33.59	3818.57			
	22-Mar-2010				34.10	3818.06			
	8-Dec-2009				33.22	3818.94			
	28-Aug-2009				32.95	3819.21			
	26-May-2009				33.26	3818.90			
	10-Dec-2008				33.60	3818.56			
27-Sep-2008	32.95	3819.21							
10-Jun-2008	33.96	3818.20							
6-Feb-2008	33.58	3818.58							
13-Nov-2007	33.27	3818.89							
13-Sep-2007	33.12	3819.04							

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b				
177-06	12-Feb-2014	417301.84	1514765.63	3866.02	Dry					
	7-Nov-2013				51.65	3814.37				
	6-Aug-2013				51.11	3814.91				
	7-May-2013				51.50	3814.52				
	7-Feb-2013				50.43	3815.59				
	25-Oct-2012				50.81	3815.21				
	30-Jul-2012				51.09	3814.93				
	24-Apr-2012				Dry					
	24-Jan-2012				49.40	3816.62				
	7-Dec-2011				49.85	3816.17				
	19-Jul-2011				49.31	3816.71				
	19-Apr-2011				48.92	3817.10				
	17-Jan-2011				48.18	3817.84				
	15-Sep-2010				47.64	3818.38				
	23-Jun-2010				48.79	3817.23				
	22-Mar-2010				49.12	3816.90				
	8-Dec-2009				47.60	3818.42				
	28-Aug-2009				47.53	3818.49				
	26-May-2009				48.03	3817.99				
	10-Dec-2008				48.72	3817.30				
	27-Sep-2008				47.52	3818.50				
	10-Jun-2008				49.31	3816.71				
	6-Feb-2008				48.00	3818.02				
	13-Nov-2007				48.88	3817.14				
13-Sep-2007	48.84	3817.18								
177-07R	12-Feb-2014	415240.93	1515476.47	3858.91	45.90	3813.01				
	7-Nov-2013				45.50	3813.41				
	6-Aug-2013				45.51	3813.40				
	7-May-2013				45.22	3813.69				
	7-Feb-2013				44.44	3814.47				
	25-Oct-2012				43.98	3814.93				
	30-Jul-2012				43.60	3815.31				
	24-Apr-2012				43.56	3815.35				
	24-Jan-2012				43.08	3815.83				
	7-Dec-2011				43.46	3815.45				
	19-Jul-2011				42.91	3816.00				
	19-Apr-2011				41.96	3816.95				
	177-07				Apr-11	415258.95	1515471.64	3859.96	Plugged and Abandoned	
					17-Jan-2011				Dry	
15-Sep-2010		Dry								
23-Jun-2010		Dry								
22-Mar-2010		Dry								
8-Dec-2009		Dry								
10-Dec-2008		Dry								
27-Sep-2008		Dry								
10-Jun-2008		Dry								
6-Feb-2008		Dry								
13-Nov-2007		Dry								
13-Sep-2007	Dry									
CENTRAL AREA										
Buena Vista Dairy II										
74-01	12-Feb-2014	405434.93	1519310.15	3841.01	35.17	3805.84				
	6-Nov-2013				35.77	3805.24				
	6-Aug-2013				36.56	3804.45				
	7-May-2013				35.02	3805.99				
	7-Feb-2013				33.64	3807.37				
	25-Oct-2012				34.94	3806.07				
	31-Jul-2012				34.53	3806.48				
	24-Apr-2012				34.27	3806.74				
	24-Jan-2012				33.36	3807.65				
	8-Dec-2011				33.63	3807.38				
	19-Jul-2011				33.31	3807.70				
	20-Apr-2011				31.97	3809.04				
	21-Jan-2011				32.23	3808.78				
	16-Sep-2010				31.97	3809.04				
	23-Jun-2010				32.08	3808.93				
	22-Mar-2010				32.07	3808.94				
	8-Dec-2009				31.45	3809.56				
	28-Aug-2009				32.20	3808.81				
	26-May-2009				32.20	3808.81				
	10-Dec-2008				31.31	3809.70				
	27-Sep-2008				31.64	3809.37				
	10-Jun-2008				32.00	3809.01				
	5-Feb-2008				31.66	3809.35				
	14-Nov-2007				31.21	3809.80				
12-Sep-2007	31.63	3809.38								

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Buena Vista Dairy II Continued						
74-02	12-Feb-2014	404574.08	1519035.52	3820.58	15.75	3804.83
	6-Nov-2013				17.07	3803.51
	6-Aug-2013				17.55	3803.03
	7-May-2013				16.22	3804.36
	7-Feb-2013				15.84	3804.74
	25-Oct-2012				16.02	3804.56
	31-Jul-2012				15.09	3805.49
	24-Apr-2012				14.30	3806.28
	24-Jan-2012				13.96	3806.62
	8-Dec-2011				15.49	3805.09
	19-Jul-2011				14.19	3806.39
	20-Apr-2011				12.45	3808.13
	17-Jan-2011				12.53	3808.05
	16-Sep-2010				12.45	3808.13
	23-Jun-2010				12.87	3807.71
	22-Mar-2010				12.72	3807.86
	8-Dec-2009				11.88	3808.70
	28-Aug-2009				12.53	3808.05
	26-May-2009				12.70	3807.88
	10-Dec-2008				11.65	3808.93
27-Sep-2008	12.03	3808.55				
10-Jun-2008	12.39	3808.19				
5-Feb-2008	11.94	3808.64				
14-Nov-2007	11.52	3809.06				
12-Sep-2007	12.33	3808.25				
74-03	12-Feb-2014	407163.61	1516711.72	3823.36	15.63	3807.73
	6-Nov-2013				15.53	3807.83
	6-Aug-2013				15.43	3807.93
	7-May-2013				14.85	3808.51
	7-Feb-2013				13.93	3809.43
	25-Oct-2012				14.22	3809.14
	31-Jul-2012				14.17	3809.19
	24-Apr-2012				13.99	3809.37
	24-Jan-2012				13.60	3809.76
	8-Dec-2011				13.70	3809.66
	19-Jul-2011				13.17	3810.19
	20-Apr-2011				12.11	3811.25
	17-Jan-2011				12.63	3810.73
	16-Sep-2010				12.41	3810.95
	23-Jun-2010				12.72	3810.64
	22-Mar-2010				12.94	3810.42
	8-Dec-2009				12.88	3810.48
	28-Aug-2009				12.63	3810.73
	26-May-2009				12.94	3810.42
	10-Dec-2008				13.00	3810.36
27-Sep-2008	12.94	3810.42				
10-Jun-2008	12.66	3810.7				
5-Feb-2008	12.94	3810.42				
14-Nov-2007	12.77	3810.59				
12-Sep-2007	12.53	3810.83				
74-04	12-Feb-2014	405488.65	1519864.48	3853.17	47.75	3805.42
	6-Nov-2013				48.06	3805.11
	6-Aug-2013				48.55	3804.62
	7-May-2013				47.45	3805.72
	7-Feb-2013				46.31	3806.86
	25-Oct-2012				46.96	3806.21
	31-Jul-2012				47.16	3806.01
	24-Apr-2012				47.05	3806.12
	24-Jan-2012				45.78	3807.39
	8-Dec-2011				45.98	3807.19
	19-Jul-2011				45.61	3807.56
	20-Apr-2011				44.19	3808.98
	17-Jan-2011				44.02	3809.15
	16-Sep-2010				44.19	3808.98
	23-Jun-2010				44.26	3808.91
	22-Mar-2010				44.25	3808.92
	8-Dec-2009				43.86	3809.31
	28-Aug-2009				44.49	3808.68
	26-May-2009				44.56	3808.61
	10-Dec-2008				43.70	3809.47
27-Sep-2008	43.99	3809.18				
10-Jun-2008	44.40	3808.77				
5-Feb-2008	43.41	3809.76				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
74-05	12-Feb-2014	404747.71	1519885.3	3845.35	40.76	3804.59
	6-Nov-2013				41.17	3804.18
	6-Aug-2013				41.80	3803.55
	7-May-2013				40.98	3804.37
	7-Feb-2013				39.40	3805.95
	25-Oct-2012				40.33	3805.02
	31-Jul-2012				40.19	3805.16
	24-Apr-2012				40.05	3805.30
	24-Jan-2012				38.78	3806.57
	8-Dec-2011				39.18	3806.17
	19-Jul-2011				38.84	3806.51
	20-Apr-2011				37.99	3807.36
	17-Jan-2011				36.96	3808.39
	16-Sep-2010				37.00	3808.35
	23-Jun-2010				37.44	3807.91
	22-Mar-2010				37.23	3808.12
	8-Dec-2009				36.74	3808.61
	28-Aug-2009				37.32	3808.03
	26-May-2009				37.47	3807.88
	10-Dec-2008				36.53	3808.82
27-Sep-2008	36.88	3808.47				
10-Jun-2008	37.39	3807.96				
5-Feb-2008	36.77	3808.58				
River Valley Dairy						
167-01	12-Feb-2014	402518.37	1518459.71	3818.94	16.81	3802.13
	6-Nov-2013				18.82	3800.12
	6-Aug-2013				19.11	3799.83
	7-May-2013				18.43	3800.51
	7-Feb-2013				17.02	3801.92
	25-Oct-2012				17.23	3801.71
	31-Jul-2012				16.91	3802.03
	24-Apr-2012				16.01	3802.93
	24-Jan-2012				14.60	3804.34
	8-Dec-2011				15.06	3803.88
	19-Jul-2011				16.81	3802.13
	25-Apr-2011				14.51	3804.43
	17-Jan-2011				12.33	3806.61
	15-Sep-2010				12.19	3806.75
	25-Jun-2010				13.31	3805.63
	22-Mar-2010				13.46	3805.48
	8-Dec-2009				12.11	3806.83
	28-Aug-2009				11.99	3806.95
	26-May-2009				12.43	3806.51
	10-Dec-2008				12.13	3806.81
27-Sep-2008	12.09	3806.85				
10-Jun-2008	12.95	3805.99				
5-Feb-2008	12.62	3806.32				
14-Nov-2007	12.68	3806.26				
167-01A	12-Feb-2014	402518.18	1518936.72	3818.88	16.79	3802.09
	6-Nov-2013				18.19	3800.69
	6-Aug-2013				18.54	3800.34
	7-May-2013				18.22	3800.66
	7-Feb-2013				17.45	3801.43
	25-Oct-2012				17.38	3801.50
	31-Jul-2012				17.08	3801.80
	24-Apr-2012				16.29	3802.59
	24-Jan-2012				14.59	3804.29
	13-Dec-2011				15.13	3803.75
	19-Jul-2011				16.04	3802.84
	25-Apr-2011				14.13	3804.75
	17-Jan-2011				12.38	3806.50
	15-Sep-2010				12.21	3806.67
	22-Jun-2010				13.74	3805.14
	22-Mar-2010				13.22	3805.66
	8-Dec-2009				12.17	3806.71
	28-Aug-2009				12.23	3806.65
	26-May-2009				12.62	3806.26
	10-Dec-2008				12.03	3806.85
27-Sep-2008	12.18	3806.70				
10-Jun-2008	13.16	3805.72				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^d
167-02	12-Feb-2014	402498.3	1519354.81	3819.64	17.94	3801.70
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	7-May-2013				Dry	
	7-Feb-2013				Dry	
	25-Oct-2012				Dry	
	31-Jul-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				15.84	3803.80
	8-Dec-2011				15.92	3803.72
	19-Jul-2011				Dry	
	25-Apr-2011				13.48	3806.16
	17-Jan-2011				13.49	3806.15
	15-Sep-2010				13.68	3805.96
	22-Jun-2010				15.23	3804.41
	22-Mar-2010				14.69	3804.95
	8-Dec-2009				13.32	3806.32
	28-Aug-2009				13.65	3805.99
	26-May-2009				13.86	3805.78
	10-Dec-2008				13.43	3806.21
	27-Sep-2008				13.71	3805.93
	10-Jun-2008				14.70	3804.94
	5-Feb-2008				13.54	3806.10
14-Nov-2007	13.65	3805.99				
11-Sep-2007	13.98	3805.66				
167-03	12-Feb-2014	402981.73	1519415.73	3825.66	23.04	3802.62
	6-Nov-2013				24.79	3800.87
	6-Aug-2013				25.27	3800.39
	7-May-2013				22.99	3802.67
	7-Feb-2013				22.06	3803.60
	25-Oct-2012				23.49	3802.17
	31-Jul-2012				22.63	3803.03
	24-Apr-2012				21.97	3803.69
	24-Jan-2012				20.94	3804.72
	8-Dec-2011				21.73	3803.93
	19-Jul-2011				23.22	3802.44
	25-Apr-2011				18.78	3806.88
	17-Jan-2011				18.86	3806.80
	15-Sep-2010				18.81	3806.85
	22-Jun-2010				19.90	3805.76
	22-Mar-2010				19.71	3805.95
	8-Dec-2009				18.62	3807.04
	28-Aug-2009				18.90	3806.76
	27-May-2009				19.26	3806.40
	10-Dec-2008				18.41	3807.25
	27-Sep-2008				18.72	3806.94
	10-Jun-2008				19.82	3805.84
	5-Feb-2008				18.64	3807.02
14-Nov-2007	18.55	3807.11				
11-Sep-2007	19.02	3806.64				
167-04	12-Feb-2014	402032.19	1519884.6	3827.60	25.42	3802.18
	6-Nov-2013				26.38	3801.22
	6-Aug-2013				26.70	3800.90
	7-May-2013				25.59	3802.01
	7-Feb-2013				24.84	3802.76
	25-Oct-2012				25.60	3802.00
	31-Jul-2012				25.19	3802.41
	24-Apr-2012				25.05	3802.55
	24-Jan-2012				23.36	3804.24
	8-Dec-2011				24.01	3803.59
	19-Jul-2011				24.36	3803.24
	25-Apr-2011				21.23	3806.37
	17-Jan-2011				21.18	3806.42
	15-Sep-2010				Well Damaged	
	22-Jun-2010					
	22-Mar-2010					
	8-Dec-2009					
	28-Aug-2009				21.57	3806.03
	26-May-2009				21.60	3806.00
	10-Dec-2008				21.01	3806.59
	27-Sep-2008				21.01	3806.59
	10-Jun-2008				22.20	3805.40
	5-Feb-2008				21.51	3806.09
14-Nov-2007	21.44	3806.16				
11-Sep-2007	21.68	3805.92				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
167-05	12-Feb-2014	397947.44	1520446.03	3815.44	15.73	3799.71
	6-Nov-2013				15.75	3799.69
	6-Aug-2013				16.03	3799.41
	7-May-2013				15.42	3800.02
	7-Feb-2013				14.96	3800.48
	25-Oct-2012				15.74	3799.70
	31-Jul-2012				15.60	3799.84
	24-Apr-2012				14.99	3800.45
	30-Jan-2012				13.86	3801.58
	13-Dec-2011				14.10	3801.34
	19-Jul-2011				13.69	3801.75
	19-Apr-2011				12.97	3802.47
	17-Jan-2011				11.90	3803.54
	15-Sep-2010				11.52	3803.92
	25-Jun-2010				12.43	3803.01
	22-Mar-2010				12.22	3803.22
	8-Dec-2009				11.96	3803.48
	28-Aug-2009				11.63	3803.81
	26-May-2009				11.45	3803.99
	10-Dec-2008				11.54	3803.90
27-Sep-2008	11.20	3804.24				
10-Jun-2008	12.65	3802.79				
5-Feb-2008	12.36	3803.08				
14-Nov-2007	12.77	3802.67				
11-Sep-2007	12.91	3802.53				
167-06	12-Feb-2014	404479.35	1519603.88	3834.84	30.42	3804.42
	6-Nov-2013				30.95	3803.89
	6-Aug-2013				31.73	3803.11
	7-May-2013				30.83	3804.01
	7-Feb-2013				30.00	3804.84
	25-Oct-2012				30.12	3804.72
	31-Jul-2012				30.29	3804.55
	24-Apr-2012				29.84	3805.00
	24-Jan-2012				28.48	3806.36
	8-Dec-2011				29.10	3805.74
	19-Jul-2011				28.75	3806.09
	25-Apr-2011				26.71	3808.13
	17-Jan-2011				26.73	3808.11
	15-Sep-2010				26.70	3808.14
	22-Jun-2010				27.17	3807.67
	22-Mar-2010				27.02	3807.82
	8-Dec-2009				26.40	3808.44
	28-Aug-2009				26.96	3807.88
	26-May-2009				27.15	3807.69
	10-Dec-2008				26.18	3808.66
27-Sep-2008	26.54	3808.30				
10-Jun-2008	27.10	3807.74				
5-Feb-2008	26.46	3808.38				
14-Nov-2007	26.60	3808.24				
11-Sep-2007	26.74	3808.10				
167-07	12-Feb-2014	402562.23	1518480.34	3819.08	16.88	3802.20
	6-Nov-2013				17.82	3801.26
	6-Aug-2013				18.25	3800.83
	7-May-2013				16.14	3802.94
	7-Feb-2013				15.84	3803.24
	25-Oct-2012				16.30	3802.78
	31-Jul-2012				16.09	3802.99
	24-Apr-2012				15.84	3803.24
	24-Jan-2012				14.54	3804.54
	8-Dec-2011				15.45	3803.63
	25-Jul-2011				15.39	3803.69
	25-Apr-2011				14.95	3804.13
	17-Jan-2011				12.39	3806.69
	15-Sep-2010				11.98	3807.10
	22-Jun-2010				12.94	3806.14
	22-Mar-2010				13.03	3806.05
	8-Dec-2009				12.18	3806.90
	28-Aug-2009				12.06	3807.02
	26-May-2009				12.56	3806.52
	10-Dec-2008				12.24	3806.84
27-Sep-2008	12.20	3806.88				
10-Jun-2008	13.00	3806.08				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
167-08	12-Feb-2014	399352.96	1519889.65	3817.96	17.65	3800.31
	6-Nov-2013				17.68	3800.28
	6-Aug-2013				18.07	3799.89
	7-May-2013				16.99	3800.97
	7-Feb-2013				16.73	3801.23
	25-Oct-2012				17.72	3800.24
	31-Jul-2012				17.60	3800.36
	24-Apr-2012				16.71	3801.25
	24-Jan-2012				15.25	3802.71
	8-Dec-2011				15.52	3802.44
	19-Jul-2011				15.59	3802.37
	19-Apr-2011				13.95	3804.01
	17-Jan-2011				13.42	3804.54
	15-Sep-2010				12.92	3805.04
	25-Jun-2010				14.69	3803.27
	22-Mar-2010				13.73	3804.23
	8-Dec-2009				13.46	3804.50
	28-Aug-2009				13.23	3804.73
	26-May-2009				12.87	3805.09
	10-Dec-2008				13.42	3804.54
27-Sep-2008	NM	NM				
10-Jun-2008	14.02	3803.94				
167-09	12-Feb-2014	398473.95	1519259.34	3817.00	16.38	3800.62
	6-Nov-2013				15.91	3801.09
	6-Aug-2013				16.22	3800.78
	7-May-2013				16.09	3800.91
	7-Feb-2013				15.36	3801.64
	25-Oct-2012				15.31	3801.69
	31-Jul-2012				15.04	3801.96
	24-Apr-2012				15.12	3801.88
	24-Jan-2012				14.60	3802.40
	8-Dec-2011				14.42	3802.58
	19-Jul-2011				13.17	3803.83
	19-Apr-2011				12.78	3804.22
	17-Jan-2011				12.70	3804.30
	15-Sep-2010				11.95	3805.05
	25-Jun-2010				13.01	3803.99
	22-Mar-2010				12.88	3804.12
	8-Dec-2009				12.82	3804.18
	28-Aug-2009				12.43	3804.57
	26-May-2009				12.44	3804.56
	10-Dec-2008				12.78	3804.22
27-Sep-2008	12.07	3804.93				
10-Jun-2008	12.94	3804.06				
Big Sky Dairy						
833-01	12-Feb-2014	399617.23	1521136.33	3839.55	Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	8-May-2013				Dry	
	7-Feb-2013				Dry	
	25-Oct-2012				Dry	
	1-Aug-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				Dry	
	8-Dec-2011				Dry	
	18-Jul-2011				Dry	
	19-Apr-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 ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-02	12-Feb-2014	401200.32	1520639.92	3836.04	34.61	3801.43
	6-Nov-2013				34.80	3801.24
	6-Aug-2013				35.44	3800.60
	8-May-2013				35.13	3800.91
	7-Feb-2013				33.42	3802.62
	25-Oct-2012				34.61	3801.43
	1-Aug-2012				34.90	3801.14
	24-Apr-2012				33.49	3802.55
	24-Jan-2012				34.01	3802.03
	8-Dec-2011				33.08	3802.96
	18-Jul-2011				32.92	3803.12
	19-Apr-2011				31.92	3804.12
	17-Jan-2011				30.43	3805.61
	14-Sep-2010				30.34	3805.70
	22-Jun-2010				31.37	3804.67
	22-Mar-2010				30.87	3805.17
	8-Dec-2009				30.40	3805.64
	28-Aug-2009				30.58	3805.46
	26-May-2009				30.24	3805.80
	10-Dec-2008				30.13	3805.91
28-Sep-2008	29.80	3806.24				
10-Jun-2008	31.21	3804.83				
5-Feb-2008	30.63	3805.41				
14-Nov-2007	30.60	3805.44				
12-Sep-2007	30.63	3805.41				
833-03	12-Feb-2014	401392.09	1521955.23	3867.06	Dry	
	6-Nov-2013				Dry	
	6-Aug-2013				Dry	
	8-May-2013				Dry	
	7-Feb-2013				Dry	
	25-Oct-2012				Dry	
	1-Aug-2012				Dry	
	24-Apr-2012				Dry	
	24-Jan-2012				Dry	
	8-Dec-2011				Dry	
	18-Jul-2011				Dry	
	19-Apr-2011				61.92	3805.14
	17-Jan-2011				61.02	3806.04
	14-Sep-2010				60.91	3806.15
	22-Jun-2010				61.90	3805.16
	22-Mar-2010				61.41	3805.65
	8-Dec-2009				61.16	3805.90
	28-Aug-2009				61.50	3805.56
	26-May-2009				61.26	3805.80
	10-Dec-2008				60.76	3806.30
28-Sep-2008	61.59	3805.47				
10-Jun-2008	61.83	3805.23				
5-Feb-2008	61.11	3805.95				
14-Nov-2007	61.08	3805.98				
12-Sep-2007	61.11	3805.95				
833-04	12-Feb-2014	402898.52	1520659.33	3845.79	43.19	3802.60
	6-Nov-2013				43.59	3802.20
	6-Aug-2013				44.00	3801.79
	8-May-2013				43.63	3802.16
	7-Feb-2013				41.70	3804.09
	25-Oct-2012				41.83	3803.96
	1-Aug-2012				42.70	3803.09
	24-Apr-2012				42.32	3803.47
	24-Jan-2012				40.87	3804.92
	8-Dec-2011				41.55	3804.24
	18-Jul-2011				41.05	3804.74
	19-Apr-2011				39.24	3806.55
	17-Jan-2011				38.80	3806.99
	14-Sep-2010				38.84	3806.95
	22-Jun-2010				39.19	3806.60
	22-Mar-2010				39.13	3806.66
	8-Dec-2009				38.85	3806.94
	28-Aug-2009				39.24	3806.55
	26-May-2009				39.31	3806.48
	10-Dec-2008				38.41	3807.38
28-Sep-2008	38.42	3807.37				
10-Jun-2008	39.46	3806.33				
5-Feb-2008	38.61	3807.18				
14-Nov-2007	38.54	3807.25				
12-Sep-2007	38.96	3806.83				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-05	12-Feb-2014	399712.39	1522374.73	3865.51	65.32	3800.19
	6-Nov-2013				65.29	3800.22
	6-Aug-2013				65.80	3799.71
	8-May-2013				65.19	3800.32
	7-Feb-2013				64.21	3801.30
	25-Oct-2012				64.60	3800.91
	1-Aug-2012				65.01	3800.50
	24-Apr-2012				64.40	3801.11
	24-Jan-2012				63.60	3801.91
	8-Dec-2011				63.63	3801.88
	18-Jul-2011				63.23	3802.28
	19-Apr-2011				62.33	3803.18
	24-Jan-2011				61.90	3803.61
	14-Sep-2010				61.05	3804.46
	22-Jun-2010				61.97	3803.54
	22-Mar-2010				61.52	3803.99
	8-Dec-2009				61.39	3804.12
	28-Aug-2009				61.52	3803.99
	26-May-2009				61.14	3804.37
	10-Dec-2008				61.07	3804.44
28-Sep-2008	60.99	3804.52				
10-Jun-2008	62.28	3803.23				
5-Feb-2008	61.52	3803.99				
833-06	12-Feb-2014	402219.48	1522652.04	3878.20	75.43	3802.77
	6-Nov-2013				75.12	3803.08
	6-Aug-2013				75.47	3802.73
	8-May-2013				74.67	3803.53
	7-Feb-2013				73.80	3804.40
	25-Oct-2012				73.93	3804.27
	1-Aug-2012				74.06	3804.14
	24-Apr-2012				73.97	3804.23
	24-Jan-2012				73.50	3804.70
	8-Dec-2011				73.41	3804.79
	18-Jul-2011				72.93	3805.27
	25-Apr-2001				72.16	3806.04
	17-Jan-2011				71.43	3806.77
	14-Sep-2010				72.05	3806.15
	22-Jun-2010				72.08	3806.12
	22-Mar-2010				72.00	3806.20
	8-Dec-2009				71.92	3806.28
	28-Aug-2009				72.22	3805.98
	26-May-2009				72.02	3806.18
	10-Dec-2008				70.95	3807.25
28-Sep-2008	70.87	3807.33				
10-Jun-2008	71.78	3806.42				
5-Feb-2008	71.47	3806.73				
833-07	12-Feb-2014	399298.8	1522082.75	3860.70	60.88	3799.82
	6-Nov-2013				61.12	3799.58
	6-Aug-2013				61.45	3799.25
	8-May-2013				60.76	3799.94
	7-Feb-2013				59.82	3800.88
	25-Oct-2012				60.22	3800.48
	1-Aug-2012				60.63	3800.07
	24-Apr-2012				60.25	3800.45
	24-Jan-2012				59.71	3800.99
	8-Dec-2011				59.26	3801.44
	18-Jul-2011				58.99	3801.71
	19-Apr-2011				57.95	3802.75
	17-Jan-2011				56.87	3803.83
	14-Sep-2010				56.61	3804.09
	22-Jun-2010				57.55	3803.15
	22-Mar-2010				57.05	3803.65
	8-Dec-2009				56.94	3803.76
	28-Aug-2009				57.02	3803.68
	26-May-2009				56.64	3804.06
	10-Dec-2008				56.58	3804.12
28-Sep-2008	58.53	3802.17				
10-Jun-2008	57.88	3802.82				
5-Feb-2008	57.11	3803.59				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
833-08	12-Feb-2014	400535.64	1521938.23	3861.76	60.68	3801.08
	6-Nov-2013				60.79	3800.97
	6-Aug-2013				61.07	3800.69
	8-May-2013				60.60	3801.16
	7-Feb-2013				59.43	3802.33
	25-Oct-2012				59.75	3802.01
	1-Aug-2012				60.24	3801.52
	24-Apr-2012				59.81	3801.95
	24-Jan-2012				58.86	3802.90
	8-Dec-2011				58.96	3802.80
	18-Jul-2011				58.36	3803.40
	25-Apr-2011				56.54	3805.22
	17-Jan-2011				56.55	3805.21
	14-Sep-2010				56.34	3805.42
	22-Jun-2010				57.32	3804.44
	22-Mar-2010				56.83	3804.93
	8-Dec-2009				56.63	3805.13
	28-Aug-2009				56.83	3804.93
	26-May-2009				56.41	3805.35
	10-Dec-2008				56.34	3805.42
28-Sep-2008	56.07	3805.69				
10-Jun-2008	57.46	3804.30				
5-Feb-2008	56.78	3804.98				
833-09	12-Feb-2014	398280.67	1520918.52	3826.27	26.82	3799.45
	6-Nov-2013				27.49	3798.78
	6-Aug-2013				27.76	3798.51
	8-May-2013				27.31	3798.96
	7-Feb-2013				26.26	3800.01
	25-Oct-2012				26.30	3799.97
	1-Aug-2012				27.21	3799.06
	24-Apr-2012				26.44	3799.83
	24-Jan-2012				25.42	3800.85
	8-Dec-2011				25.08	3801.19
	18-Jul-2011				25.41	3800.86
	25-Apr-2011				22.86	3803.41
	17-Jan-2011				22.87	3803.40
	15-Sep-2010				22.56	3803.71
	22-Jun-2010				23.99	3802.28
	22-Mar-2010				23.20	3803.07
	8-Dec-2009				22.87	3803.40
	28-Aug-2009				22.67	3803.60
	26-May-2009				22.40	3803.87
	10-Dec-2008				22.65	3803.62
28-Sep-2008	22.18	3804.09				
10-Jun-2008	23.71	3802.56				
5-Feb-2008	23.23	3803.04				
833-10	12-Feb-2014	396715.89	1520283.6	3820.76	21.61	3799.15
	6-Nov-2013				21.76	3799.00
	6-Aug-2013				21.95	3798.81
	8-May-2013				22.26	3798.50
	7-Feb-2013				21.12	3799.64
	25-Oct-2012				20.93	3799.83
	1-Aug-2012				21.01	3799.75
	24-Apr-2012				21.11	3799.65
	24-Jan-2012				20.14	3800.62
	8-Dec-2011				19.95	3800.81
	18-Jul-2011				19.23	3801.53
	19-Apr-2011				18.67	3802.09
	17-Jan-2011				17.80	3802.96
	15-Sep-2010				17.29	3803.47
	22-Jun-2010				18.80	3801.96
	22-Mar-2010				18.38	3802.38
	8-Dec-2009				17.72	3803.04
	28-Aug-2009				17.22	3803.54
	26-May-2009				17.40	3803.36
	10-Dec-2008				17.71	3803.05
28-Sep-2008	16.98	3803.78				
10-Jun-2008	18.17	3802.59				
5-Feb-2008	18.11	3802.65				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
Sunset/Desert Land Dairy						
257-01	12-Feb-2014	395856.31	1520572.16	3820.33	21.67	3798.66
	6-Nov-2013				22.29	3798.04
	6-Aug-2013				22.52	3797.81
	7-May-2013				21.15	3799.18
	7-Feb-2013				20.38	3799.95
	26-Oct-2012				21.04	3799.29
	1-Aug-2012				20.82	3799.51
	24-Apr-2012				21.01	3799.32
	24-Jan-2012				20.09	3800.24
	8-Dec-2011				20.18	3800.15
	18-Jul-2011				19.75	3800.58
	19-Apr-2011				18.52	3801.81
	18-Jan-2011				17.83	3802.50
	15-Sep-2010				17.15	3803.18
	22-Jun-2010				18.15	3802.18
	22-Mar-2010				18.40	3801.93
	8-Dec-2009				17.66	3802.67
	28-Aug-2009				16.99	3803.34
	26-May-2009				17.41	3802.92
	10-Dec-2008				17.87	3802.46
27-Sep-2008	16.75	3803.58				
10-Jun-2008	17.88	3802.45				
5-Feb-2008	17.59	3802.74				
14-Nov-2007	18.53	3801.80				
12-Sep-2007	18.10	3802.23				
257-02	12-Feb-2014	394728.34	1521030.29	3813.67	15.78	3797.89
	6-Nov-2013				16.06	3797.61
	6-Aug-2013				15.95	3797.72
	7-May-2013				15.04	3798.63
	7-Feb-2013				14.79	3798.88
	26-Oct-2012				15.06	3798.61
	1-Aug-2012				14.91	3798.76
	24-Apr-2012				15.27	3798.40
	24-Jan-2012				13.90	3799.77
	8-Dec-2011				14.38	3799.29
	19-Jul-2011				13.50	3800.17
	19-Apr-2011				12.59	3801.08
	18-Jan-2011				11.84	3801.83
	15-Sep-2010				10.86	3802.81
	22-Jun-2010				11.08	3802.59
	22-Mar-2010				12.22	3801.45
	8-Dec-2009				11.52	3802.15
	28-Aug-2009				10.86	3802.81
	26-May-2009				11.38	3802.29
	10-Dec-2008				11.67	3802.00
27-Sep-2008	9.75	3803.92				
10-Jun-2008	11.82	3801.85				
5-Feb-2008	11.67	3802.00				
14-Nov-2007	12.22	3801.45				
12-Sep-2007	11.55	3802.12				
257-03	12-Feb-2014	397935.69	1518746.14	3814.74	13.49	3801.25
	6-Nov-2013				11.04	3803.70
	6-Aug-2013				11.29	3803.45
	7-May-2013				12.98	3801.76
	7-Feb-2013				12.31	3802.43
	26-Oct-2012				11.61	3803.13
	1-Aug-2012				10.06	3804.68
	24-Apr-2012				11.56	3803.18
	24-Jan-2012				10.89	3803.85
	1-Nov-2011				11.29	3803.45
	18-Jul-2011				8.77	3805.97
	19-Apr-2011				9.31	3805.43
	17-Jan-2011				10.04	3804.70
	21-Sep-2010				9.26	3805.48
	22-Jun-2010				9.11	3805.63
	22-Mar-2010				10.45	3804.29
	8-Dec-2009				9.78	3804.96
	28-Aug-2009				9.43	3805.31
	26-May-2009				9.55	3805.19
	10-Dec-2008				10.26	3804.48
27-Sep-2008	9.73	3805.01				
10-Jun-2008	9.70	3805.04				
5-Feb-2008	11.04	3803.70				
14-Nov-2007	9.03	3805.71				
12-Sep-2007	9.61	3805.13				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
257/260-01	12-Feb-2014	397678.36	1519948.22	3814.04	14.06	3799.98
	6-Nov-2013				14.01	3800.03
	14-Aug-2013				14.20	3799.84
	7-May-2013				13.83	3800.21
	7-Feb-2013				13.11	3800.93
	26-Oct-2012				13.36	3800.68
	1-Aug-2012				13.05	3800.99
	24-Apr-2012				12.98	3801.06
	30-Jan-2012				12.26	3801.78
	1-Nov-2011				12.79	3801.25
	18-Jul-2011				10.65	3803.39
	26-Apr-2011				11.66	3802.38
	17-Jan-2011				10.44	3803.60
	15-Sep-2010				9.94	3804.10
	22-Jun-2010				10.90	3803.14
	22-Mar-2010				10.71	3803.33
	8-Dec-2009				10.42	3803.62
	28-Aug-2009				10.11	3803.93
	26-May-2009				10.00	3804.04
	10-Dec-2008				10.48	3803.56
	27-Sep-2008				9.80	3804.24
	10-Jun-2008				11.00	3803.04
	5-Feb-2008				10.99	3803.05
14-Nov-2007	11.21	3802.83				
12-Sep-2007	NM	NM				
Additional Wells						
Bruce1	18-Jul-2011	388741.02	1523777.06	3808.92	Destroyed	
	19-Apr-2011				11.17	3797.75
	17-Jan-2011				11.13	3797.79
	15-Sep-2010				10.38	3798.54
	23-Jun-2010				10.99	3797.93
	21-Mar-2010				11.50	3797.42
	8-Dec-2009				11.05	3797.87
	27-Aug-2009				10.41	3798.51
	27-May-2009				10.77	3798.15
	10-Dec-2008				11.28	3797.64
	27-Sep-2008				10.93	3797.99
	10-Jun-2008				11.28	3797.64
	5-Feb-2008				11.47	3797.45
	Bruce2				5-Feb-2008	NM
	10-Jun-2008				8.33	--
SOUTHERN AREA						
Del Oro Dairy						
692-01	14-Feb-2014	373615.88	1531529.38	3844.13	60.38	3783.75
	6-Nov-2013				60.72	3783.41
	6-Aug-2013				60.30	3783.83
	7-May-2013				60.58	3783.55
	7-Feb-2013				59.93	3784.20
	26-Oct-2012				60.10	3784.03
	1-Aug-2012				58.79	3785.34
	24-Apr-2012				58.43	3785.70
	25-Jan-2012				78.58	Pumping
	9-Dec-2011				58.19	3785.94
	18-Jul-2011				57.79	3786.34
	19-Apr-2011				57.39	3786.74
	18-Jan-2011				57.17	3786.96
	15-Sep-2010				57.57	3786.56
	30-Jun-2010				61.15	Pumping
	22-Mar-2010				58.01	3786.12
	9-Dec-2009				58.25	3785.88
	29-Aug-2009				58.19	3785.94
	26-May-2009				57.80	3786.33
	11-Dec-2008				Pumping	NM
	28-Sep-2008				Pumping	NM
	11-Jun-2008				57.75	3786.38
	6-Feb-2008				57.42	3786.71
14-Nov-2007	57.38	3786.75				
13-Sep-2007	57.46	3786.67				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
692-02	14-Feb-2014	372984.72	1531192.1	3840.84	58.12	3782.72
	6-Nov-2013				57.91	3782.93
	6-Aug-2013				57.60	3783.24
	7-May-2013				57.39	3783.45
	7-Feb-2013				56.86	3783.98
	25-Oct-2012				56.48	3784.36
	1-Aug-2012				56.03	3784.81
	24-Apr-2012				55.71	3785.13
	25-Jan-2012				54.70	3786.14
	13-Dec-2011				54.94	3785.90
	18-Jul-2011				55.10	3785.74
	19-Apr-2011				54.68	3786.16
	18-Jan-2011				54.32	3786.52
	15-Sep-2010				54.39	3786.45
	30-Jun-2010				54.50	3786.34
	22-Mar-2010				54.90	3785.94
	9-Dec-2009				55.11	3785.73
	28-Aug-2009				55.03	3785.81
	26-May-2009				55.38	3785.46
	11-Dec-2008				54.93	3785.91
	28-Sep-2008				54.69	3786.15
	11-Jun-2008				54.93	3785.91
	6-Feb-2008				54.74	3786.10
14-Nov-2007	54.42	3786.42				
13-Sep-2007	54.61	3786.23				
692-04	14-Feb-2014	372982.53	1531555.21	3842.66	59.18	3783.48
	6-Nov-2013				59.03	3783.63
	6-Aug-2013				58.79	3783.87
	7-May-2013				58.68	3783.98
	7-Feb-2013				58.05	3784.61
	25-Oct-2012				57.62	3785.04
	1-Aug-2012				57.34	3785.32
	24-Apr-2012				57.13	3785.53
	25-Jan-2012				56.34	3786.32
	9-Dec-2011				56.91	3785.75
	18-Jul-2011				56.92	3785.74
	19-Apr-2011				56.47	3786.19
	18-Jan-2011				56.15	3786.51
	15-Sep-2010				55.90	3786.76
	30-Jun-2010				56.81	3785.85
	22-Mar-2010				56.81	3785.85
	8-Dec-2009				56.86	3785.80
	28-Aug-2009				56.82	3785.84
	26-May-2009				57.09	3785.57
	11-Dec-2008				56.71	3785.95
	28-Sep-2008				56.41	3786.25
	11-Jun-2008				56.54	3786.12
	6-Feb-2008				56.40	3786.26
14-Nov-2007	55.95	3786.71				
13-Sep-2007	56.19	3786.47				
692-05	13-Feb-2014	374807.26	1532403	3854.26	79.21	3775.05
	6-Nov-2013				NM	NM
	14-Aug-2013				78.12	3776.14
	7-May-2013				79.43	3774.83
	7-Feb-2013				78.86	3775.40
	26-Oct-2012				79.11	3775.15
	1-Aug-2012				78.80	3775.46
	24-Apr-2012				77.96	3776.30
	24-Jan-2012				76.80	3777.46
	9-Dec-2011				77.39	3776.87
	18-Jul-2011				77.59	3776.67
	19-Apr-2011				76.46	3777.80
	18-Jan-2011				75.55	3778.71
	15-Sep-2010				76.14	3778.12
	30-Jun-2010				76.20	3778.06
	22-Mar-2010				75.01	3779.25
	9-Dec-2009				75.52	3778.74
	28-Aug-2009				76.15	3778.11
	26-May-2009				75.65	3778.61
	11-Dec-2008				74.95	3779.31
	28-Sep-2008				75.36	3778.90
	11-Jun-2008				75.72	3778.54
	6-Feb-2008				74.84	3779.42
14-Nov-2007	75.90	3778.36				
13-Sep-2007	75.84	3778.42				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
692-06	14-Feb-2014	375054.77	1532411.83	3856.48	81.31	3775.17
	6-Nov-2013				82.18	3774.30
	6-Aug-2013				81.86	3774.62
	7-May-2013				81.22	3775.26
	7-Feb-2013				80.88	3775.60
	26-Oct-2012				81.03	3775.45
	1-Aug-2012				80.69	3775.79
	24-Apr-2012				79.84	3776.64
	30-Jan-2012				78.99	3777.49
	9-Dec-2011				79.32	3777.16
	18-Jul-2011				79.43	3777.05
	19-Apr-2011				78.32	3778.16
	18-Jan-2011				77.44	3779.04
	15-Sep-2010				78.02	3778.46
	30-Jun-2010				78.12	3778.36
	22-Mar-2010				76.91	3779.57
	9-Dec-2009				77.44	3779.04
	28-Aug-2009				78.04	3778.44
	26-May-2009				77.53	3778.95
	11-Dec-2008				76.79	3779.69
28-Sep-2008	77.25	3779.23				
11-Jun-2008	77.60	3778.88				
6-Feb-2008	76.76	3779.72				
14-Nov-2007	77.80	3778.68				
13-Sep-2007	77.75	3778.73				
692-07	14-Feb-2014	374944.88	1532019.81	3848.20	73.14	3775.06
	6-Nov-2013				74.26	3773.94
	6-Aug-2013				73.92	3774.28
	7-May-2013				73.21	3774.99
	7-Feb-2013				72.55	3775.65
	26-Oct-2012				72.78	3775.42
	1-Aug-2012				72.60	3775.60
	24-Apr-2012				71.84	3776.36
	24-Jan-2012				70.30	3777.90
	13-Dec-2011				70.54	3777.66
	18-Jul-2011				71.32	3776.88
	19-Apr-2011				70.22	3777.98
	18-Jan-2011				69.01	3779.19
	15-Sep-2010				69.72	3778.48
	30-Jun-2010				69.87	3778.33
	22-Mar-2010				68.59	3779.61
	9-Dec-2009				68.97	3779.23
	28-Aug-2009				69.71	3778.49
	26-May-2009				69.35	3778.85
	11-Dec-2008				68.38	3779.82
28-Sep-2008	68.99	3779.21				
11-Jun-2008	69.35	3778.85				
6-Feb-2008	68.44	3779.76				
14-Nov-2007	69.46	3778.74				
13-Sep-2007	69.46	3778.74				
692-08	14-Feb-2014	375535.69	1531378.09	3843.09	67.81	3775.28
	6-Nov-2013				68.06	3775.03
	6-Aug-2013				68.52	3774.57
	14-May-2013				67.09	3776.00
	7-Feb-2013				66.64	3776.45
	26-Oct-2012				67.17	3775.92
	1-Aug-2012				66.47	3776.62
	24-Apr-2012				65.84	3777.25
	30-Jan-2012				64.58	3778.51
	9-Dec-2011				64.65	3778.44
	18-Jul-2011				65.79	3777.30
	19-Apr-2011				64.32	3778.77
	18-Jan-2011				62.49	3780.60
	1-Oct-2010				63.83	3779.26
	30-Jun-2010				63.71	3779.38
	22-Mar-2010				62.45	3780.64
	9-Dec-2009				62.57	3780.52
	28-Aug-2009				63.42	3779.67
	26-May-2009				64.03	3779.06
	11-Dec-2008				61.83	3781.26
28-Sep-2008	63.42	3779.67				
11-Jun-2008	63.40	3779.69				
6-Feb-2008	62.02	3781.07				
14-Nov-2007	63.25	3779.84				
13-Sep-2007	64.02	3779.07				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
692-09	17-Feb-2014	373575.83	1532395.09	3856.32	82.51	3773.81
	6-Nov-2013				83.73	3772.59
	6-Aug-2013				83.40	3772.92
	7-May-2013				82.64	3773.68
	7-Feb-2013				82.02	3774.30
	26-Oct-2012				82.18	3774.14
	1-Aug-2012				82.11	3774.21
	24-Apr-2012				81.17	3775.15
	25-Jan-2012				79.80	3776.52
	8-Dec-2011				80.44	3775.88
	18-Jul-2011				80.78	3775.54
	19-Apr-2011				79.65	3776.67
	17-Jan-2011				78.52	3777.80
	15-Sep-2010				79.33	3776.99
	30-Jun-2010				79.52	3776.80
	22-Mar-2010				78.13	3778.19
	9-Dec-2009				78.79	3777.53
	28-Aug-2009				79.48	3776.84
	26-May-2009				78.89	3777.43
	11-Dec-2008				78.11	3778.21
28-Sep-2008	78.55	3777.77				
11-Jun-2008	79.03	3777.29				
6-Feb-2008	78.16	3778.16				
14-Nov-2007	79.15	3777.17				
13-Sep-2007	79.93	3776.39				
Anthony Waste Water Treatment Plant						
MW-1	14-Feb-2014	372097.86	1532364.36	3843.03	60.49	3782.54
	7-Nov-2013				60.28	3782.75
	7-Aug-2013				60.13	3782.90
	8-May-2013				59.72	3783.31
	7-Feb-2013				59.23	3783.80
	26-Oct-2012				58.85	3784.18
	2-Aug-2012				58.79	3784.24
	25-Apr-2012				58.28	3784.75
	9-Dec-2011				58.01	3785.02
	18-Jul-2011				58.44	3784.59
	20-Apr-2011				58.35	3784.68
	18-Jan-2011				58.20	3784.83
	15-Sep-2010				58.28	3784.75
	24-Jun-2010				58.50	3784.53
	22-Mar-2010				58.43	3784.60
	9-Dec-2009				58.15	3784.88
	28-Aug-2009				58.07	3784.96
	27-May-2009				58.41	3784.62
MW-2	14-Feb-2014	NM	NM	3843.25	62.04	3781.21
	7-Nov-2013				61.81	3781.44
	7-Aug-2013				62.07	3781.18
	8-May-2013				61.21	3782.04
	7-Feb-2013				60.85	3782.40
	26-Oct-2012				60.42	3782.83
	2-Aug-2012				60.30	3782.95
	25-Apr-2012				59.94	3783.31
	30-Jan-2012				59.30	3783.95
	9-Dec-2011				59.33	3783.92
	18-Jul-2011				59.41	3783.84
	20-Apr-2011				59.42	3783.83
	18-Jan-2011				59.31	3783.94
	15-Sep-2010				59.08	3784.17
	24-Jun-2010				59.37	3783.88
	22-Mar-2010				59.44	3783.81
	9-Dec-2009				59.19	3784.06
	28-Aug-2009				58.98	3784.27
27-May-2009	59.45	3783.80				
MW-3	14-Feb-2014	NM	NM	3841.24	Dry	
	7-Nov-2013				Dry	
	7-Aug-2013				59.29	3781.95
	8-May-2013				58.80	3782.44
	7-Feb-2013				58.36	3782.88
	26-Oct-2012				57.98	3783.26
	2-Aug-2012				57.81	3783.43
	25-Apr-2012				57.32	3783.92
	30-Jan-2012				56.80	3784.44
	8-Dec-2011				56.87	3784.37
	18-Jul-2011				56.98	3784.26
	19-Apr-2011				56.93	3784.31
	18-Jan-2011				56.73	3784.51
	15-Sep-2010				Could not access	
	24-Jun-2010				56.91	3784.33
	22-Mar-2010				56.93	3784.31
	9-Dec-2009				56.69	3784.55
	28-Aug-2009				56.54	3784.70
	27-May-2009				56.96	3784.28

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
ABATEMENT PLAN MONITOR WELLS						
DAD-01	12-Feb-2014	422970.59	1512825.76	3886.16	70.14	3816.02
	6-Nov-2013				70.64	3815.52
	7-Aug-2013				68.63	3817.53
	7-May-2013				68.48	3817.68
	8-Feb-2013				68.59	3817.57
	29-Oct-2012				68.12	3818.04
	30-Jul-2012				68.97	3817.19
	23-Apr-2012				68.19	3817.97
	25-Jan-2012				67.15	3819.01
	8-Dec-2011				67.41	3818.75
	19-Jul-2011				67.41	3818.75
	25-Apr-2011				65.86	3820.30
	18-Jan-2011				65.37	3820.79
	16-Sep-2010				65.86	3820.30
	24-Jun-2010				66.58	3819.58
	21-Mar-2010				65.46	3820.70
9-Dec-2009	65.32	3820.84				
29-Aug-2009	65.68	3820.48				
26-May-2009	65.43	3820.73				
DAD-02	12-Feb-2014	413002.98	1517319.93	3875.82	65.42	3810.40
	7-Nov-2013				65.55	3810.27
	7-Aug-2013				65.01	3810.81
	8-May-2013				64.56	3811.26
	8-Feb-2013				64.04	3811.78
	29-Oct-2012				64.11	3811.71
	31-Jul-2012				64.03	3811.79
	24-Apr-2012				63.45	3812.37
	25-Jan-2012				62.91	3812.91
	8-Dec-2011				63.07	3812.75
	19-Jul-2011				62.63	3813.19
	18-Apr-2011				62.11	3813.71
	17-Jan-2011				61.37	3814.45
	16-Sep-2010				61.79	3814.03
	25-Jun-2010				62.95	3812.87
	21-Mar-2010				61.43	3814.39
9-Dec-2009	61.46	3814.36				
29-Aug-2009	61.65	3814.17				
26-May-2009	61.59	3814.23				
DAD-03	17-Feb-2014	407721.31	1516497.85	3820.58	12.66	3807.92
	11-Dec-2013				12.67	3807.91
	14-Aug-2013				12.36	3808.22
	8-May-2013				11.87	3808.71
	8-Feb-2013				11.07	3809.51
	29-Oct-2012				10.93	3809.65
	31-Jul-2012				10.90	3809.68
	24-Apr-2012				10.97	3809.61
	25-Jan-2012				10.60	3809.98
	8-Dec-2011				10.70	3809.88
	19-Jul-2011				10.29	3810.29
	18-Apr-2011				10.12	3810.46
	24-Jan-2011				9.36	3811.22
	16-Sep-2010				9.40	3811.18
	24-Jun-2010				9.97	3810.61
	21-Mar-2010				9.90	3810.68
9-Dec-2009	9.79	3810.79				
29-Aug-2009	9.72	3810.86				
26-May-2009	9.89	3810.69				
DAD-04	13-Feb-2014	404576.66	1517413.28	3821.47	15.45	3806.02
	7-Nov-2013				16.91	3804.56
	7-Aug-2013				17.11	3804.36
	8-May-2013				15.02	3806.45
	8-Feb-2013				14.48	3806.99
	29-Oct-2012				15.10	3806.37
	31-Jul-2012				14.37	3807.10
	24-Apr-2012				14.27	3807.20
	25-Jan-2012				13.40	3808.07
	8-Dec-2011				13.84	3807.63
	19-Jul-2011				13.63	3807.84
	18-Apr-2011				13.21	3808.26
	17-Jan-2011				12.71	3808.76
	16-Sep-2010				12.14	3809.33
	23-Jun-2010				12.59	3808.88
	21-Mar-2010				12.88	3808.59
9-Dec-2009	12.10	3809.37				
29-Aug-2009	12.13	3809.34				
26-May-2009	12.31	3809.16				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-05	13-Feb-2014	396712.87	1519102.06	3816.01	15.82	3800.19
	7-Nov-2013				15.39	3800.62
	7-Aug-2013				15.32	3800.69
	8-May-2013				15.78	3800.23
	8-Feb-2013				15.08	3800.93
	29-Oct-2012				14.85	3801.16
	2-Aug-2012				14.17	3801.84
	24-Apr-2012				14.14	3801.87
	25-Jan-2012				14.11	3801.90
	8-Dec-2011				14.05	3801.96
	18-Jul-2011				12.31	3803.70
	18-Apr-2011				12.58	3803.43
	17-Jan-2011				12.50	3803.51
	16-Sep-2010				11.87	3804.14
	23-Jun-2010				12.95	3803.06
	21-Mar-2010				12.92	3803.09
	9-Dec-2009				12.13	3803.88
29-Aug-2009	11.85	3804.16				
26-May-2009	12.07	3803.94				
DAD-06	13-Feb-2014	404273.19	1522081.00	3887.71	Dry	
	7-Nov-2013				Dry	
	7-Aug-2013				Dry	
	8-May-2013				82.79	3804.92
	8-Feb-2013				82.38	3805.33
	29-Oct-2012				82.47	3805.24
	1-Aug-2012				82.20	3805.51
	24-Apr-2012				82.13	3805.58
	25-Jan-2012				81.32	3806.39
	8-Dec-2011				81.55	3806.16
	18-Jul-2011				80.94	3806.77
	20-Apr-2011				80.16	3807.55
	17-Jan-2011				79.43	3808.28
	16-Sep-2010				79.68	3808.03
	25-Jun-2010				80.33	3807.38
	21-Mar-2010				79.85	3807.86
	9-Dec-2009				79.95	3807.76
29-Aug-2009	80.46	3807.25				
26-May-2009	80.32	3807.39				
DAD-07	13-Feb-2014	399270.18	1524320.88	3891.38	91.37	3800.01
	7-Nov-2013				91.60	3799.78
	7-Aug-2013				91.19	3800.19
	8-May-2013				90.89	3800.49
	8-Feb-2013				90.13	3801.25
	29-Oct-2012				90.34	3801.04
	2-Aug-2012				90.38	3801.00
	24-Apr-2012				90.25	3801.13
	25-Jan-2012				89.75	3801.63
	8-Dec-2011				89.35	3802.03
	18-Jul-2011				88.98	3802.40
	20-Apr-2011				88.34	3803.04
	17-Jan-2011				87.94	3803.44
	16-Sep-2010				88.29	3803.09
	25-Jun-2010				88.49	3802.89
	21-Mar-2010				88.00	3803.38
	9-Dec-2009				88.19	3803.19
29-Aug-2009	88.45	3802.93				
26-May-2009	88.14	3803.24				
DAD-08	13-Feb-2014	395287.38	1522575.07	3849.15	51.31	3797.84
	7-Nov-2013				51.50	3797.65
	7-Aug-2013				53.18	3795.97
	8-May-2013				52.43	3796.72
	8-Feb-2013				50.37	3798.78
	29-Oct-2012				49.86	3799.29
	1-Aug-2012				50.34	3798.81
	24-Apr-2012				50.34	3798.81
	25-Jan-2012				49.62	3799.53
	13-Dec-2011				50.12	3799.03
	18-Jul-2011				49.97	3799.18
	20-Apr-2011				48.87	3800.28
	18-Jan-2011				47.80	3801.35
	17-Sep-2010				47.05	3802.10
	25-Jun-2010				48.06	3801.09
	21-Mar-2010				47.76	3801.39
	9-Dec-2009				47.42	3801.73
29-Aug-2009	47.18	3801.97				
26-May-2009	47.38	3801.77				

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-09	13-Feb-2014	373259.30	1530905.70	3838.03	55.65	3782.38
	7-Nov-2013				55.17	3782.86
	7-Aug-2013				55.35	3782.68
	7-May-2013				54.94	3783.09
	8-Feb-2013				54.67	3783.36
	29-Oct-2012				54.13	3783.90
	2-Aug-2012				53.86	3784.17
	24-Apr-2012				53.40	3784.63
	25-Jan-2012				52.67	3785.36
	13-Dec-2011				52.62	3785.41
	18-Jul-2011				52.28	3785.75
	18-Apr-2011				51.89	3786.14
	17-Jan-2011				51.09	3786.94
	17-Sep-2010				51.55	3786.48
	29-Jun-2010				52.20	3785.83
	21-Mar-2010				51.84	3786.19
	9-Dec-2009				52.12	3785.91
29-Aug-2009	52.23	3785.80				
26-May-2009	52.49	3785.54				
DAD-10	17-Feb-2014	372980.55	1532375.33	3854.93	81.59	3773.34
	7-Nov-2013				82.75	3772.18
	7-Aug-2013				82.78	3772.15
	7-May-2013				81.77	3773.16
	8-Feb-2013				80.87	3774.06
	29-Oct-2012				81.02	3773.91
	2-Aug-2012				81.47	3773.46
	24-Apr-2012				80.36	3774.57
	25-Jan-2012				78.76	3776.17
	13-Dec-2011				79.07	3775.86
	18-Jul-2011				80.29	3774.64
	20-Apr-2011				79.13	3775.80
	17-Jan-2011				77.82	3777.11
	17-Sep-2010				78.66	3776.27
	29-Jun-2010				78.59	3776.34
	21-Mar-2010				77.19	3777.74
	9-Dec-2009				77.92	3777.01
29-Aug-2009	78.72	3776.21				
26-May-2009	77.90	3777.03				
DAD-11 (177-03)	12-Feb-2014	416211.35	1513814.71	3835.90	21.64	3814.26
	7-Nov-2013				20.76	3815.14
	7-Aug-2013				20.17	3815.73
	8-May-2013				20.70	3815.20
	8-Feb-2013				19.25	3816.65
	29-Oct-2012				19.07	3816.83
	30-Jul-2012				18.57	3817.33
	24-Apr-2012				19.12	3816.78
	25-Jan-2012				18.40	3817.50
	13-Dec-2011				18.75	3817.15
	19-Jul-2011				17.54	3818.36
	19-Apr-2011				17.31	3818.59
	17-Jan-2011				16.99	3818.91
	15-Sep-2010				16.24	3819.66
	23-Jun-2010				16.53	3819.37
	22-Mar-2010				17.29	3818.61
	8-Dec-2009				16.82	3819.08
	28-Aug-2009				16.63	3819.27
	26-May-2009				16.92	3818.98
	10-Dec-2008				17.05	3818.85
27-Sep-2008	16.65	3819.25				
10-Jun-2008	17.53	3818.37				
6-Feb-2008	17.33	3818.57				
13-Nov-2007	17.19	3818.71				
13-Sep-2007	16.61	3819.29				
DAD-12	12-Feb-2014	419731.54	1512274.77	3866.72	50.92	3815.80
	7-Nov-2013				50.49	3816.23
	7-Aug-2013				49.24	3817.48
	7-May-2013				49.66	3817.06
	8-Feb-2013				49.36	3817.36
	29-Oct-2012				48.96	3817.76
	31-Jul-2012				48.59	3818.13
	23-Apr-2011				48.44	3818.28
	25-Jan-2012				48.01	3818.71
	6-Dec-2011				48.15	3818.57

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^b
DAD-13	12-Feb-2014	417879.08	1515673.13	3898.44	84.45	3813.99
	7-Nov-2013				85.43	3813.01
	14-Aug-2013				86.46	3811.98
	8-May-2013				84.96	3813.48
	8-Feb-2013				84.81	3813.63
	29-Oct-2012				85.39	3813.05
	30-Jul-2012				85.51	3812.93
	23-Apr-2012				83.56	3814.88
	25-Jan-2012				82.72	3815.72
	8-Dec-2011				82.88	3815.56
DAD-14	12-Feb-2014	414923.33	1514695.26	3841.90	29.02	3812.88
	7-Nov-2013				28.44	3813.46
	7-Aug-2013				28.25	3813.65
	8-May-2013				28.15	3813.75
	8-Feb-2013				27.31	3814.59
	25-Oct-2012				26.62	3815.28
	30-Jul-2012				25.85	3816.05
	24-Apr-2012				26.07	3815.83
	25-Jan-2012				26.10	3815.80
	8-Dec-2011				26.30	3815.60
DAD-15	12-Feb-2014	402001.22	1523552.04	3897.61	94.81	3802.80
	7-Nov-2013				95.08	3802.53
	7-Aug-2013				95.31	3802.30
	8-May-2013				94.35	3803.26
	8-Feb-2013				94.01	3803.60
	29-Oct-2012				93.78	3803.83
DAD-16	13-Feb-2014	400628.77	1519350.74	3819.28	18.45	3800.83
	7-Nov-2013				18.94	3800.34
	7-Aug-2013				19.06	3800.22
	8-May-2013				18.49	3800.79
	8-Feb-2013				17.20	3802.08
	29-Oct-2012				17.23	3802.05
	31-Jul-2012				18.58	3800.70
	24-Apr-2012				17.64	3801.64
	25-Jan-2012				16.50	3802.78
	8-Dec-2011				16.58	3802.70
DAD-17	12-Feb-2014	393991.97	1520267.94	3817.75	20.05	3797.70
	7-Nov-2013				20.21	3797.54
	7-Aug-2013				19.75	3798.00
	13-May-2013				19.37	3798.38
	8-Feb-2013				18.55	3799.20
	29-Oct-2012				19.18	3798.57
	2-Aug-2012				19.07	3798.68
	24-Apr-2012				21.01	3796.74
	25-Jan-2012				17.74	3800.01
	9-Dec-2011				19.21	3798.54
DAD-18	17-Feb-2014	395714.14	1520588.96	3821.59	23.03	3798.56
	7-Nov-2013				23.25	3798.34
	7-Aug-2013				24.23	3797.36
	13-May-2013				22.97	3798.62
	8-Feb-2013				22.04	3799.55
	29-Oct-2012				22.40	3799.19
	1-Aug-2012				22.43	3799.16
	24-Apr-2012				22.20	3799.39
	25-Jan-2012				21.33	3800.26
	6-Dec-2011				21.43	3800.16
DAD-19	12-Feb-2014	400164.47	1522027.92	3864.50	63.99	3800.51
	7-Nov-2013				64.11	3800.39
	7-Aug-2013				64.46	3800.04
	14-May-2013				63.75	3800.75
	8-Feb-2013				62.95	3801.55
	29-Oct-2012				62.30	3802.20
	1-Aug-2012				63.70	3800.80
	24-Apr-2012				63.31	3801.19
	25-Jan-2012				62.25	3802.25
	6-Dec-2011				62.29	3802.21
DAD-20	13-Feb-2014	371751.45	1531188.19	3833.27	53.54	3779.73
	7-Nov-2013				53.70	3779.57
	7-Aug-2013				53.43	3779.84
	8-May-2013				52.88	3780.39
	8-Feb-2013				52.29	3780.98
	7-Nov-2012				52.18	3781.09
	29-Oct-2012				Obstruction in Well	
	2-Aug-2012				Obstruction in Well	
	25-Apr-2012				Obstruction in Well	
	25-Jan-2012				50.65	3782.62
	6-Dec-2011				50.66	3782.61

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

Monitoring Well	Date Measured	Northing ^a	Easting ^a	Casing Elevation ^b	Depth to Water ^c	Ground Water Elevation ^d
DAD-21	17-Feb-2014	374013.39	1530983.98	3839.62	55.97	3783.65
	7-Nov-2013				55.89	3783.73
	7-Aug-2013				55.81	3783.81
	7-May-2013				55.43	3784.19
	8-Feb-2013				55.10	3784.52
	29-Oct-2012				54.60	3785.02
	2-Aug-2012				54.31	3785.31
	24-Apr-2012				53.61	3786.01
	30-Jan-2012				53.44	3786.18
	6-Dec-2011				53.24	3786.38
	DAD-22				17-Feb-2014	373029.62
7-Nov-2013		45.73	3781.41			
7-Aug-2013		45.77	3781.37			
14-May-2013		44.09	3783.05			
8-Feb-2013		44.08	3783.06			
29-Oct-2012		44.51	3782.63			
2-Aug-2012		44.23	3782.91			
25-Apr-2012		43.86	3783.28			
25-Jan-2012		43.22	3783.92			
13-Dec-2011		43.27	3783.87			

Notes:
^a Horizontal control to NM State Plane Coordinates Central NAD83 Grid Coordinates (in feet)
^b Vertical Control to NAVD88 Datum in feet above mean sea level
^c Measured in feet below the top of casing at survey point on north side of well
^d Measured in feet
Wells were gauged on a different date by Magee and Associates Inc.
Wells were gauged on a different date by EnviroCompliance Inc.
Measured data were suspect and corrected to reflect appropriate trends in accordance with surrounding wells

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

Target Analytes	Analytical Method	Sample Container	Preservative	Holding Time
Groundwater Samples				
Nitrate/Nitrite	EPA 300.0/ SM 4500 NO3 E	250 mL HDPE Bottle	H ₂ SO ₄ to pH2, Cool to <6°C	28 Days
Total Kjeldhal Nitrogen	SM 4500 NORG C	250 mL HDPE Bottle	H ₂ SO ₄ to pH2, Cool to <6°C	28 Days
Chloride	EPA 300.0	250 mL HDPE Bottle	Cool to <6°C	28 Days
Total Dissolved Solids	SM 2540 C MOD	250 mL HDPE Bottle	Cool to <6°C	28 Days
Notes: °C = Degree Celsius ASTM = American Society for Testing and Materials EPA = U.S. Environmental Protection Agency H ₂ SO ₄ = Sulfuric Acid HDPE = High-density polyethylene mL = milliliters				

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

Monitoring Well	Date Sampled	Nitrate (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)	Sulfate (mg/l)
Abatement Plan Monitoring Wells						
DAD-01	10-Mar-14	5.76	<1.66	496	1,780	NA
	11-Dec-13	7.61	3.50	471	1,760	NA
	10-Sep-13	4.43	2.80	472	1,920	NA
	16-May-13	10.4	<1.66	408	1,930	NA
	28-Feb-13	10.0	<1.72	469	1,740	NA
	3-Dec-12	10.7	<1.72	348	1,800	NA
	21-Aug-12	9.98	<1.72	373	1,640	NA
	9-May-12	6.88	2.80	401	1,660	NA
	31-Jan-12	9.90	2.52	439	1,520	NA
	27-Oct-11	9.56	3.50	436	1,840	256
	20-Jul-11	12.0	2.38	426	1,650	NA
	20-Apr-11	10.3	<2.17	460	1,710	NA
	24-Jan-11	19.8	3.50	408	1,820	NA
	16-Sep-10	7.56	<10.0	439	1,800	NA
	29-Jun-10	8.55	<1.0	491	2,120	NA
	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	10-Mar-14	7.75	<1.66	463	1,620	NA
	11-Dec-13	7.91	2.80	443	1,540	NA
	9-Sep-13	7.14	<1.66	337	1,900	NA
	16-May-13	9.19	<1.66	393	1,750	NA
	1-Mar-13	8.52	<1.72	357	1,520	NA
	3-Dec-12	8.51	<1.72	345	1,800	NA
	21-Aug-12	4.39	2.10	301	1,570	NA
	9-May-12	7.71	<1.72	373	1,830	NA
	31-Jan-12	7.66	<2.17	335	1,720	NA
	27-Oct-11	8.30	2.52	380	1,360	475
	20-Jul-11	7.66	<2.17	374	1,750	NA
	21-Apr-11	7.97	<2.17	434	1,760	NA
	24-Jan-11	6.38	2.80	443	2,240	NA
	16-Sep-10	3.44	<10.0	385	1,790	NA
	29-Jun-10	8.11	< 0.5	364	1,870	NA
	21-Mar-10	8.1	<1.0	420	1,970	NA
	NMED Split	9-Dec-09	9.0	<1.0	440	1,920
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	10-Mar-14	0.906	<1.66	917	3,480	NA	
	11-Dec-13	<0.213	<1.66	932	3,180	NA	
	10-Sep-13	Did Not Contain Enough Water to Sample					
	16-May-13	1.07	<1.66	1,400	4,420	NA	
	1-Mar-13	0.721	<1.72	1,220	3,720	NA	
	3-Dec-12	1.1	<1.72	1,150	4,760	NA	
	21-Aug-12	<0.0290	2.80	1,090	3,920	NA	
	9-May-12	<0.114	2.66	1,200	4,160	NA	
	31-Jan-12	<0.500	4.34	1,340	4,350	NA	
	26-Oct-11	<0.500	3.22	1,790	5,420	1100	
	20-Jul-11	<1.00	3.22	1,630	4,720	NA	
	21-Apr-11	<0.500	<2.17	1,870	5,600	NA	
	24-Jan-11	<0.00955	4.20	1,590	4,660	NA	
	16-Sep-10	0.217	<10.0	1,370	4,320	NA	
	29-Jun-10	<0.5	6.18	1,570	5,150	NA	
	21-Mar-10	<10	<1.0	2,200	5,620	NA	
	9-Dec-09	<10	<5.0	2,100	5,590	NA	
	NMED Split	9-Dec-09	<0.1	0.88	1,570	5,300	1,160
		29-Aug-09	<0.10	<5.0	1,400	4,420	NA
12-May-09		<10	<5.0	1,200	5,000	NA	
DAD-04		10-Mar-14	1.01	<1.66	694	2,600	NA
		11-Dec-13	1.69	<1.66	604	2,400	NA
	5-Sep-13	0.827	9.10	544	2,710	NA	
	16-May-13	<0.0420	<1.66	613	2,320	NA	
	1-Mar-13	2.12	<1.72	510	2,090	NA	
	5-Dec-12	2.740	<1.72	545	2,430	NA	
	21-Aug-12	<0.0290	<1.72	496	2,620	NA	
	9-May-12	0.305	<1.72	502	1,970	NA	
	31-Jan-12	2.05	<2.17	493	2,320	NA	
	26-Oct-11	<0.500	2.80	590	2,950	380	
	20-Jul-11	<0.500	<2.17	670	2,540	NA	
	20-Apr-11	<0.500	<2.17	584	2,570	NA	
	24-Jan-11	<0.00955	2.66	608	2,400	NA	
	16-Sep-10	<0.100	<10.0	683	2,560	NA	
	29-Jun-10	<0.5	1.4	570	2,330	NA	
	21-Mar-10	<2.0	<2.0	620	2,460	NA	
	9-Dec-09	<2.0	1.7	810	2,720	NA	
	NMED Split	9-Dec-09	<0.1	1.2	659	2,630	373
		29-Aug-09	<2.0	<5.0	690	2,690	NA
		13-May-09	<2.0	<5.0	690	2,700	NA

**TABLE 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	10-Mar-14	4.81	<1.66	312	1,510	NA	
	12-Dec-13	0.898	2.80	72.9	695	NA	
	5-Sep-13	2.16	4.90	120	870	NA	
	29-May-13	2.44	<1.66	582	2,580	NA	
	5-Mar-13	<0.246	<1.72	519	2,100	NA	
	5-Dec-12	3.350	<1.72	690	2,930	NA	
	22-Aug-12	<0.0290	<1.72	544	2,260	NA	
	9-May-12	0.908	2.10	566	2,380	NA	
	1-Feb-12	<0.500	<2.17	558	2,020	NA	
	26-Oct-11	<0.500	2.66	647	900	377	
	20-Jul-11	<0.500	5.04	599	2,460	NA	
	20-Apr-11	<0.500	<2.17	430	1,810	NA	
	20-Jan-11	0.128	2.10	477	1,870	NA	
	16-Sep-10	<2.50	<10.0	536	2,220	NA	
	29-Jun-10	< 0.5	1.1	627	2,550	NA	
	21-Mar-10	<2.0	<1.0	630	2,340	NA	
	9-Dec-09	<2.0	1.3	710	2,420	NA	
	NMED Split	9-Dec-09	<0.1	0.95	563	2,290	362
		29-Aug-09	<2.0	<2.0	630	2,310	NA
		13-May-09	<2.0	<5.0	640	2,700	NA
Duplicate		13-May-09	<10	1.6	618	2,260	NA
DAD-06	10-Mar-14	Dry					
	11-Dec-13	Dry					
	5-Sep-13	Dry					
	30-May-13	6.07	<1.66	508	1,690	NA	
	4-Mar-13	7.66	<1.72	496	1,510	NA	
	5-Dec-12	8.25	<1.72	439	1,610	NA	
	21-Aug-12	9.11	2.10	347	1,530	NA	
	9-May-12	11.0	<1.72	375	1,570	NA	
	31-Jan-12	13.6	<2.17	382	1,510	NA	
	27-Oct-11	9.20	<2.17	322	1,060	228	
	20-Jul-11	18.0	3.64	358	1,370	NA	
	21-Apr-11	18.0	<2.17	349	1,330	NA	
	24-Jan-11	12.2	2.10	360	1,270	NA	
	16-Sep-10	9.20	<10.0	359	1,370	NA	
	29-Jun-10	11.6	<2.0	365	1,460	NA	
	21-Mar-10	10	<2.0	390	1,390	NA	
	9-Dec-09	10	<1.0	380	1,380	NA	
	NMED Split	9-Dec-09	8.6	0.36	354	1,440	262
		29-Aug-09	8.2	<5.0	390	1,260	NA
		14-May-09	11	<5.0	350	1,300	NA
Duplicate		14-May-09	8.17	0.4	338	1,250	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-Mar-14	4.84	2.10	512	1,980	NA
	11-Dec-13	7.94	<1.66	700	2,270	NA
	5-Sep-13	7.01	3.50	650	2,380	NA
	24-May-13	8.42	<1.66	720	2,570	NA
	5-Mar-13	8.15	<1.72	724	2,740	NA
	5-Dec-12	8.03	<1.72	718	2,610	NA
	22-Aug-12	6.88	<1.72	671	2,540	NA
	9-May-12	3.81	<1.72	588	2,150	NA
	31-Jan-12	5.40	<2.17	610	1,640	NA
	26-Oct-11	5.22	2.24	591	750	426
	20-Jul-11	4.67	2.80	554	1,880	NA
	20-Apr-11	4.14	<2.17	525	1,780	NA
	19-Jan-11	0.410	<2.05	518	1,740	NA
	16-Sep-10	<2.50	<10.0	637	1,990	NA
	29-Jun-10	5.17	<0.5	569	2,060	NA
	21-Mar-10	5.1	<1.0	640	1,970	NA
	9-Dec-09	5.4	<1.0	620	1,900	NA
	9-Dec-09	5.2	<0.1	536	1,870	403
	29-Aug-09	4.4	<5.0	610	1,780	NA
14-May-09	4.6	<1.0	530	1,800	NA	
DAD-08	11-Mar-14	71.7	<1.66	2,450	6,400	NA
	12-Dec-13	70.7	2.80	2,500	6,780	NA
	5-Sep-13	74.9	2.80	2,440	7,440	NA
	24-May-13	71.5	<1.66	2,140	6,740	NA
	4-Mar-13	90.0	<1.72	2,280	7,060	NA
	5-Dec-12	40.2	<1.72	2,270	5,980	NA
	22-Aug-12	32.2	<1.72	2,430	7,220	NA
	9-May-12	2.39	<1.72	1,150	3,260	NA
	31-Jan-12	2.69	<2.17	1,250	2,990	NA
	26-Oct-11	2.80	<2.17	1,260	2,500	471
	20-Jul-11	3.36	3.78	1,320	3,060	NA
	20-Apr-11	4.33	<2.17	1,300	3,280	NA
	19-Jan-11	<0.239	2.10	1,240	2,600	NA
	17-Sep-10	<2.50	<10.0	1,370	3,230	NA
	29-Jun-10	2.53	<1.0	1,290	5,950	NA
	21-Mar-10	<4.0	<1.0	1,300	3,270	NA
	9-Dec-09	<4.0	<1.0	1,400	3,290	NA
	9-Dec-09	3.1	0.26	1,400	3,070	509
	29-Aug-09	<4.0	<2.0	1,500	3,180	NA
14-May-09	3.0	<5.0	1,300	3,600	NA	
NMED Split						

**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	18-Mar-14	3.44	<1.66	418	1,480	NA
	16-Dec-13	17.4	<1.66	294	1,200	NA
	30-Aug-13	12.3	2.10	454	1,800	NA
	30-May-13	9.69	<1.66	435	1,740	NA
	6-Mar-13	17.1	<1.72	494	1,840	NA
	4-Dec-12	33.1	<1.72	588	2,200	NA
	20-Aug-12	48.4	<1.72	656	2,540	NA
	10-May-12	50.9	<1.72	561	2,270	NA
	31-Jan-12	59.8	<2.17	622	2,220	NA
	26-Oct-11	77.7	<2.17	728	1,600	433
	20-Jul-11	70.2	<2.17	727	2,500	NA
	20-Apr-11	47.5	<2.17	483	1,910	NA
	19-Jan-11	42.8	2.38	745	2,600	NA
	17-Sep-10	22.6	<10.0	204	47	NA
	29-Jun-10	59.2	<5.0	667	2,240	NA
	21-Mar-10	29	<5.0	290	1,190	NA
	NMED Split	9-Dec-09	26	<5.0	300	1,190
9-Dec-09		22	1.6	228	1,170	152
29-Aug-09		46	<5.0	640	2,320	NA
13-May-09		44	<5.0	740	2,400	NA
DAD-10 Vertical Delineation	18-Mar-14	7.79	<1.66	475	1,620	NA
	16-Dec-13	8.34	4.90	475	1,600	NA
	5-Sep-13	6.01	3.50	451	1,480	NA
	23-May-13	5.42	<1.66	453	1,450	NA
	6-Mar-13	4.83	<1.72	468	1,620	NA
	4-Dec-12	4.33	<1.72	434	1,510	NA
	20-Aug-12	2.86	<1.72	389	2,520	NA
	10-May-12	1.52	<1.72	361	1,400	NA
	31-Jan-12	<0.500	<2.17	433	800	NA
	26-Oct-11	3.33	2.80	384	1,150	206
	20-Jul-11	2.29	<2.17	383	1,290	NA
	20-Apr-11	1.30	<2.17	411	1,340	NA
	19-Jan-11	12.7	2.10	429	1,140	NA
	17-Sep-10	2.73	<10.0	404	1,320	NA
	29-Jun-10	1.28	<1.0	390	1,360	NA
	21-Mar-10	<2.0	<1.0	420	1,380	NA
	NMED Split	9-Dec-09	1.4	<1.0	460	1,360
9-Dec-09		1.5	<0.1	378	1,340	196
29-Aug-09		1.2	<1.0	420	1,340	NA
14-May-09		<2.0	<1.0	410	1,300	NA

**TABLE 3. ABATEMENT PLAN MONITORING 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 Vertical Delineation (formerly 177-03)	17-Mar-14	12.0	<1.66	890	3,230	NA
	16-Dec-13	15.0	2.10	1,170	3,790	NA
	9-Sep-13	13.6	2.80	1,080	3,560	NA
	29-May-13	15.7	<1.66	1,110	3,600	NA
	1-Mar-13	14.6	<1.72	1,190	3,600	NA
	3-Dec-12	13.4	<1.72	1,210	3,870	NA
	21-Aug-12	8.71	<1.72	818	3,020	NA
	14-May-12	0.791	<1.72	359	1,550	NA
	1-Feb-12	2.38	<2.17	456	1,700	NA
	27-Oct-11	<0.500	<2.17	434	1,290	215
	2-Aug-11	<0.500	<2.17	427	1,490	NA
	5-May-11	<0.500	<2.17	398	1,360	NA
	25-Jan-11	4.60	<2.05	386	1,500	NA
	21-Sep-10	3.21	<10.0	369	1,520	NA
	29-Jun-10	1.6	<1.0	430	1,610	NA
	28-Apr-10	1.5	<1.0	450	1,600	NA
	20-Jan-10	1.4	<1.0	460	1,600	NA
	21-Oct-09	1.0	<1.0	430	1,600	NA
	7-Jul-09	0.80	<1.0	470	1,500	NA
6-May-09	0.97	3.5	450	1,600	NA	
22-Jan-09	1.00	<1.0	370	1,600	NA	
DAD-12 Vertical Delineation	17-Mar-14	20.5	<1.66	621	2,890	NA
	13-Dec-13	18.5	2.10	638	2,840	NA
	10-Sep-13	18.1	2.80	557	2,950	NA
	29-May-13	18.2	<1.66	686	3,130	NA
	28-Feb-13	22.8	<1.72	688	2,820	NA
	3-Dec-12	16.4	<1.72	689	3,070	NA
	21-Aug-12	17.8	2.10	620	2,990	NA
	14-May-12	23.1	<1.72	561	2,870	NA
	1-Feb-12	20.8	<2.17	614	2,670	NA
7-Dec-11	18.8	<2.17	597	2,620	616	
DAD-13	17-Mar-14	6.59	<3.32	528	1,960	NA
	13-Dec-13	5.83	<1.66	546	1,940	NA
	9-Sep-13	3.42	2.80	524	1,800	NA
	29-May-13	5.00	<1.66	550	2,020	NA
	28-Feb-13	5.63	<1.72	582	1,970	NA
	3-Dec-12	5.04	<1.72	504	1,810	NA
	21-Aug-12	3.51	<1.72	420	1,900	NA
	10-May-12	8.66	<1.72	514	2,010	NA
	1-Feb-12	7.59	<2.17	537	1,960	NA
	27-Oct-11	7.51	2.52	536	3,700	321

**TABLE 3. ABATEMENT PLAN MONITORING 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	17-Mar-14	41.3	<1.66	1,040	3,620	NA
	13-Dec-13	31.9	<1.66	929	3,160	NA
	9-Sep-13	29.2	3.50	1,010	3,590	NA
	29-May-13	34.6	<1.66	1,030	3,520	NA
	1-Mar-13	42.0	16.8	1,130	3,730	NA
	3-Dec-12	40.3	<1.72	1,150	4,010	NA
	21-Aug-12	33.2	<1.72	919	3,340	NA
	14-May-12	28.8	<1.72	881	3,280	NA
	1-Feb-12	20.3	<2.17	861	2,880	NA
	27-Oct-11	17.2	2.80	835	1,780	447
DAD-15	17-Mar-14	5.00	<1.66	519	1,820	NA
	2-Jan-14	4.72	2.10	497	1,780	NA
	10-Sep-13	7.56	3.50	356	1,740	NA
	29-May-13	5.29	<1.66	504	1,970	NA
	4-Mar-13	5.10	<1.72	515	1,800	NA
	4-Dec-12	4.710	<1.72	484	1,810	256
	20-Aug-12	2.370	35.00	351	1,330	256
DAD-16	10-Mar-14	1.65	<1.66	573	2,100	NA
	12-Dec-13	1.28	2.10	561	2,210	NA
	9-Sep-13	0.832	4.20	538	2,260	NA
	29-May-13	1.68	<1.66	501	2,200	NA
	5-Mar-13	2.55	<1.72	674	2,670	NA
	5-Dec-12	2.420	<1.72	529	2,280	NA
	22-Aug-12	<0.0290	<1.72	472	2,000	NA
	14-May-12	0.147	<1.72	378	2,080	NA
	1-Feb-12	<0.500	<2.17	438	1,960	NA
27-Oct-11	<0.500	3.36	410	1,520	408	
DAD-17	11-Mar-14	3.27	<3.32	440	1,820	NA
	12-Dec-13	2.45	2.80	412	1,640	NA
	9-Sep-13	0.370	2.10	451	2,340	NA
	24-May-13	0.827	<1.66	317	1,400	NA
	5-Mar-13	2.06	<1.72	351	1,550	NA
	5-Dec-12	2.28	<1.72	230	1,260	NA
	22-Aug-12	<0.0290	<1.72	189	930	NA
	10-May-12	<0.114	<1.72	353	1,580	NA
	1-Feb-12	<0.500	3.36	113	714	NA
	26-Oct-11	<0.500	3.50	175	724	186
DAD-18 Vertical Delineation	11-Mar-14	12.8	<1.66	739	2,880	NA
	12-Dec-13	11.8	2.10	719	2,840	NA
	9-Sep-13	10.9	2.80	697	3,040	NA
	29-May-13	11.9	<1.66	734	3,020	NA
	5-Mar-13	11.2	<1.72	712	2,700	NA
	5-Dec-12	10.10	<1.72	643	2,690	NA
	22-Aug-12	9.03	4.62	642	2,790	NA
	10-May-12	9.11	<1.72	558	2,700	NA
	1-Feb-12	9.62	<2.17	629	2,470	NA
	7-Dec-11	9.21	<2.17	639	2,670	495

**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 Vertical Delineation	18-Mar-14	50.3	<1.66	861	3,130	NA
	12-Dec-13	48.9	2.10	930	3,240	NA
	9-Sep-13	54.6	<1.66	1,260	3,270	NA
	30-May-13	71.3	<1.66	951	3,560	NA
	4-Mar-13	69.1	<1.72	986	3,430	NA
	5-Dec-12	54.2	<1.72	851	3,230	NA
	21-Aug-12	59.2	<1.72	843	3,470	NA
	10-May-12	54.8	<1.72	835	3,460	NA
	1-Feb-12	59.8	<2.17	913	2,950	NA
	7-Dec-11	47.4	<2.17	789	3,070	544
DAD-20	18-Mar-14	20.6	<1.66	665	2,120	NA
	16-Dec-13	20.2	2.10	732	2,140	NA
	5-Sep-13	19.2	5.60	808	2,870	NA
	23-May-13	25.2	<1.66	707	2,320	NA
	6-Mar-13	29.5	<1.72	710	2,280	NA
	4-Dec-12	17.0	<1.72	704	2,350	NA
	10-May-12	Obstruction in Well				
	31-Jan-12	21.2	<2.17	568	1,000	NA
	7-Dec-11	16.1	<2.17	611	2,020	383
DAD-21	18-Mar-14	18.1	<1.66	592	2,140	NA
	16-Dec-13	16.9	<1.66	568	1,890	NA
	5-Sep-13	12.0	4.20	583	1,990	NA
	24-May-13	6.73	<1.66	509	1,960	NA
	6-Mar-13	5.76	<1.72	516	1,910	NA
	4-Dec-12	3.47	<1.72	445	1,720	NA
	20-Aug-12	3.45	<1.72	409	1,660	NA
	10-May-12	1.16	<1.72	364	2,840	NA
	31-Jan-12	6.79	2.94	475	1,620	NA
7-Dec-11	2.14	<2.17	396	1,600	219	

**TABLE 3. ABATEMENT PLAN MONITORING 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	18-Mar-14	6.38	<1.66	846	2,420	NA
	13-Dec-13	6.35	<1.66	909	2,440	NA
	5-Sep-13	Did Not Contain Enough Water to Sample				
	24-May-13	9.29	<1.66	920	2,580	NA
	6-Mar-13	8.25	<1.72	909	2,610	NA
	4-Dec-12	12.0	<1.72	886	2,740	NA
	20-Aug-12	15.3	2.10	878	2,280	NA
	10-May-12	18.3	<1.72	818	1,580	NA
	1-Feb-12	23.6	<2.17	908	3,000	NA
	26-Oct-11	29.5	2.52	781	3,860	494
NMWQCC Standard		10	NA	250	1,000	600
<p>Notes: Shading indicates exceedence of NMWQCC standard NA = Not analyzed ND = Non detect NMWQCC = New Mexico Water Quality Control Commission TDS = Total dissolved solids TKN = Total Kjeldahl Nitrogen DAD-03 (6-29-10) Roots in sample may have resulted in a measured TKN result.</p>						

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
Northern Area					
Northern Land Application Area					
70-03	19-Feb-14	57.1	<1.66	3,400	8,380
	14-Nov-13	45.4	3.50	2,680	6,800
	9-Aug-13	48.7	3.50	2,740	6,890
	9-May-13	58.4	<1.66	3,290	9,200
	13-Feb-13	59.1	<1.72	3,400	8,440
	7-Nov-12	49.5	<1.72	2,850	7,950
	7-Aug-12	45.3	2.94	2,440	6,700
	25-Apr-12	53.1	5.60	2,540	6,550
	2-Feb-12	67.6	<2.17	2,840	7,480
	7-Nov-11	61.6	<2.17	3,270	7,910
	3-Aug-11	63.1	2.80	3,140	8,040
	21-Apr-11	58.9	<2.17	3,130	8,040
	27-Jan-11	71.2	3.36	3,140	7,580
	22-Sep-10	62.8	<10.0	2,940	7,840
	30-Jun-10	57	<1.0	2,200	5,720
	26-Mar-10	29.6	ND	2,160	5,180
	15-Dec-09	27.1	ND	2,199	5,462
2-Sep-09	25.4	ND	2,149	5,570	
4-Jun-09	18.6	ND	1,999	5,518	
4-Mar-09	35.5	ND	2,074	5,418	
70/86/340-01	18-Feb-14	7.19	<1.66	1,810	4,580
	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	18-Feb-14	12.4	<1.66	460	2,370
	11-Nov-13	12.2	7.00	641	2,940
	8-Aug-13	12.1	2.10	720	3,230
	9-May-13	12.3	<1.66	603	3,020
	13-Feb-13	12.2	<1.72	571	2,780
	5-Nov-12	12.1	<1.72	638	2,860
	6-Aug-12	11.6	<1.72	708	3,410
	25-Apr-12	12.1	<1.72	641	2,480
	2-Feb-12	12.3	<2.17	655	2,960
	7-Nov-11	11.6	3.08	593	2,910
	25-Jul-11	10.2	<2.17	582	2,500
	21-Apr-11	10.4	<2.17	512	2,660
	27-Jan-11	7.99	<2.17	419	2,040
	22-Sep-10	11.8	<10.0	331	2,060
	30-Jun-10	13	<1.0	410	2,190
	26-Mar-10	9.2	0.7	690	2,656
	29-Jan-10	8.6	ND	530	2,258
2-Sep-09	8.8	ND	510	2,232	
4-Jun-09	5.2	1.12	640	2,582	
4-Mar-09	11.9	ND	675	2,674	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
Former Daybreak Dairy (Del Norte Dairy)					
126-04	20-Feb-14	17.1	<1.66	564	2,410
	13-Nov-13	16.7	9.10	567	2,240
	12-Aug-13	15.3	18.2	511	2,170
	10-May-13	15.1	<1.66	499	2,310
	12-Feb-13	18.5	<1.72	614	2,640
	7-Nov-12	16.0	3.50	572	2,500
	7-Aug-12	15.9	2.10	568	2,370
	30-Apr-12	15.7	<1.72	539	2,310
	26-Jan-12	17.4	<2.17	560	1,700
	7-Nov-11	18.2	3.92	581	2,470
	3-Aug-11	18.2	6.44	559	2,460
	22-Apr-11	18.0	5.74	594	2,500
	26-Jan-11	11.1	<2.17	570	2,380
	21-Sep-10	20.5	<10.0	542	2,460
	30-Jun-10	21	<5.0	490	2,160
	25-Mar-10	14.9	0.56	530	1,964
	15-Dec-09	11.5	ND	550	1,974
2-Sep-09	9	ND	530	2,028	
4-Jun-09	5.81	ND	550	2,084	
5-Mar-09	14.1	ND	525	2,122	
126-05	20-Feb-14	27.1	<1.66	643	3,140
	13-Nov-13	30.3	4.20	648	3,100
	12-Aug-13	33.9	4.20	594	2,920
	10-May-13	39.0	<1.66	635	3,060
	12-Feb-13	34.2	<1.72	618	3,180
	7-Nov-12	29.2	<1.72	548	2,890
	7-Aug-12	30.8	2.10	548	2,860
	30-Apr-12	28.6	2.38	530	2,840
	26-Jan-12	30.1	<2.17	546	2,520
	4-Nov-11	31.2	<2.17	543	3,510
	4-Aug-11	29.5	4.20	525	2,540
	22-Apr-11	28.0	2.80	615	2,800
	26-Jan-11	25.2	3.64	553	2,870
	21-Sep-10	22.3	<10.0	504	2,240
	30-Jun-10	24	<5.0	540	2,750
	25-Mar-10	13.5	ND	640	2,736
	15-Dec-09	16.6	ND	630	2,554
2-Sep-09	12.8	1.4	580	2,566	
4-Jun-09	10.1	ND	600	2,640	
5-Mar-09	19.9	1.03	610	2,828	
126-07	20-Feb-14	25.6	<1.66	615	2,490
	13-Nov-13	24.1	4.20	615	2,330
	12-Aug-13	23.5	5.60	586	2,410
	10-May-13	20.2	<1.66	573	2,620
	12-Feb-13	21.2	<1.72	648	2,740
	7-Nov-12	19.8	<1.72	629	2,870
	7-Aug-12	19.5	2.10	650	2,610
	30-Apr-12	18.8	<1.72	605	2,710
	26-Jan-12	18.8	2.24	666	2,790
	4-Nov-11	19.8	<2.17	668	2,270
	4-Aug-11	19.1	2.24	666	1,410
	22-Apr-11	21.2	<2.17	704	3,110
	27-Jan-11	22.4	<2.17	662	2,670
	21-Sep-10	24.9	<10.0	700	2,800
	30-Jun-10	26	<5.0	760	2,780
	25-Mar-10	12.1	ND	610	2,238
	15-Dec-09	13.8	ND	720	2,412
2-Sep-09	10.9	ND	820	2,716	
4-Jun-09	19.0	ND	810	2,468	
5-Mar-09	16.8	ND	605	2,230	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
126-09	20-Feb-14	2.12	<1.66	911	2,720
	13-Nov-13	2.25	4.20	919	2,710
	12-Aug-13	2.13	5.60	937	2,710
	10-May-13	2.25	<1.66	898	3,300
	12-Feb-13	2.50	<1.72	991	3,090
	7-Nov-12	2.53	<1.72	984	2,980
	7-Aug-12	2.69	2.10	962	3,050
	30-Apr-12	2.28	5.04	978	2,900
	26-Jan-12	3.93	7.00	1,100	3,180
	7-Nov-11	3.30	5.6	1,130	3,470
	4-Aug-11	3.19	<2.17	1,100	3,180
	22-Apr-11	3.31	<2.17	1,120	2,730
	22-Sep-10	2.50	<10.0	1110	3,320
	30-Jun-10	Not Sampled			
	25-Mar-10				
15-Dec-09					
2-Sep-09					
4-Jun-09					
5-Mar-09					
126-12	20-Feb-14	13.6	2.10	404	2,370
	13-Nov-13	15.7	3.50	401	2,360
	12-Aug-13	17.0	4.20	434	2,400
	10-May-13	16.2	2.10	398	2,380
	12-Feb-13	18.8	<1.72	421	2,480
	7-Nov-12	19.2	<1.72	407	2,490
	7-Aug-12	17.5	<1.72	410	2,460
	30-Apr-12	12.9	1.96	401	2,270
	14-Feb-12	12.5	4.20	418	2,340
	4-Nov-11	13.3	<2.17	430	2,600
	4-Aug-11	13.6	<2.17	449	2,580
	22-Apr-11	13.2	<2.17	461	2,530
	27-Jan-11	12.2	<2.17	453	2,280
	22-Sep-10	12.6	<10.0	446	2,430
	30-Jun-10	15	<2.0	500	2,610
	25-Mar-10	8.9	ND	550	2,260
	15-Dec-09	8.7	ND	540	2,296
	2-Sep-09	12.8	0.56	530	2,336
4-Jun-09	4.08	0.84	530	2,322	
5-Mar-09	11	ND	475	2,320	
126-13	20-Feb-14	29.9	<1.66	769	2,780
	13-Nov-13	28.0	2.80	655	2,980
	12-Aug-13	26.8	3.50	780	2,800
	10-May-13	34.1	<1.66	385	3,160
	12-Feb-13	33.7	<1.72	735	2,840
	7-Nov-12	23.8	2.10	751	3,090
	7-Aug-12	26.1	2.10	779	2,860
	30-Apr-12	43.8	<1.72	784	3,120
	26-Jan-12	27.5	<2.17	735	2,800
	7-Nov-11	21.9	<2.17	735	3,060
	4-Aug-11	21.4	<2.17	735	2,840
	22-Apr-11	21.7	<2.17	754	2,640
	26-Jan-11	22.8	<2.17	768	3,130
	22-Sep-10	23.1	<10.0	750	2,850
	30-Jun-10	26	<5.0	810	3,000
	25-Mar-10	10.3	ND	940	2,740
	15-Dec-09	14.3	ND	910	2,832
	2-Sep-09	12.8	ND	840	2,746
4-Jun-09	16.3	ND	970	2,768	
5-Mar-09	19.4	ND	845	2,800	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
Mountain View Dairy					
70-01	19-Feb-14	22.6	<1.66	616	2,620
	14-Nov-13	22.3	3.50	510	2,620
	8-Aug-13	22.8	2.80	638	2,670
	9-May-13	22.4	<1.66	616	2,740
	13-Feb-13	24.7	<1.72	655	2,680
	7-Nov-12	21.2	<1.72	636	2,700
	7-Aug-12	21.4	2.10	637	2,700
	25-Apr-12	21.7	<1.72	659	2,490
	2-Feb-12	21.5	2.94	633	2,530
	7-Nov-11	21.1	5.18	622	1,860
	3-Aug-11	20.7	2.8	641	2,630
	22-Apr-11	22.7	22.4	646	2,760
	27-Jan-11	22.5	2.94	650	2,500
	22-Sep-10	19.3	12.3	617	2,610
	30-Jun-10	27	<1.0	600	2,400
	25-Mar-10	14.5	ND	670	2,096
	15-Dec-09	17.1	ND	640	2,218
1-Sep-09	8.4	ND	630	2,244	
2-Jun-09	9.35	ND	640	2,112	
4-Mar-09	20.8	ND	610	2,254	
70-02	19-Feb-14	36.9	<1.66	793	3,160
	14-Nov-13	36.1	4.90	837	3,200
	9-Aug-13	20.9	29.4	815	2,890
	9-May-13	37.4	<1.66	790	3,260
	13-Feb-13	38.1	<1.72	841	3,160
	7-Nov-12	36.2	<1.72	820	3,300
	7-Aug-12	36.3	3.78	826	3,260
	25-Apr-12	37.9	<1.72	749	2,260
	2-Feb-12	37.5	<2.17	829	3,160
	7-Nov-11	37.7	<2.17	828	2,790
	4-Aug-11	36.8	5.04	798	3,160
	22-Apr-11	38.1	8.40	836	3,220
	27-Jan-11	44.2	6.02	863	3,390
	22-Sep-10	32.2	<10.0	829	3,070
	30-Jun-10	46	< 1.0	860	3,170
	25-Mar-10	19.6	ND	930	3,076
	15-Dec-09	18.3	ND	960	3,012
9-Jan-09	21.4	ND	970	3,148	
2-Jun-09	17.8	ND	920	3,084	
4-Mar-09	35.8	ND	940	3,104	
70-04	19-Feb-14	22.3	<1.66	607	2,580
	14-Nov-13	21.0	2.80	649	2,630
	9-Aug-13	21.7	4.20	636	2,780
	9-May-13	23.0	<1.66	630	3,510
	11-Jan-13	19.5	<1.72	613	6,200
Buena Vista Dairy I					
86-01	26-Jan-11	95.4	16.0	2,300	6,240
	20-Sep-10	86.9	<10.0	2,330	6,500
	29-Jun-10	67	<1.0	1,800	5,010
	25-Mar-10	27.0	0.28	1,770	4,814
	15-Dec-09	29.8	ND	1,750	4,670
	1-Sep-09	26.1	ND	1,510	4,474
	2-Jun-09	46.5	4.76	1,590	4,464
	4-Mar-09	42	ND	1,659	4,850
86-02	26-Jan-11	23.4	2.24	641	3,110
	20-Sep-10	24.1	<10.0	613	2,980
	29-Jun-10	21	1.1	660	3,020
	25-Mar-10	16.2	0.7	740	2,740
	15-Dec-09	10.7	0.28	730	2,818
	1-Sep-09	7.2	ND	710	2,824
	2-Jun-09	2.95	ND	700	2,802
4-Mar-09	16.4	ND	625	2,666	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
Bright Star Dairy					
340-01	20-Feb-14	29.1	2.80	564	2,800
	11-Nov-13	29.2	3.50	600	2,800
	8-Aug-13	28.6	4.90	694	2,000
	9-May-13	31.1	<1.66	577	3,700
	13-Feb-13	27.0	<1.72	711	3,340
	5-Nov-12	23.8	<1.72	855	3,180
	6-Aug-12	22.7	<1.72	694	3,380
	25-Apr-12	26.3	61.0	681	2,540
	2-Feb-12	27.4	<2.17	661	2,780
	4-Nov-11	26.6	4.34	691	2,910
	25-Jul-11	28.3	4.20	747	2,830
	27-Jan-11	31.1	3.50	578	2,840
	21-Sep-10	24.8	<10.0	513	3,070
	29-Jun-10	29	<0.10	610	2,810
	24-Mar-10	18.8	ND	580	2,508
	15-Dec-09	13.1	ND	650	2,608
1-Sep-09	12.20	ND	530	2,522	
2-Jun-09	8.67	ND	590	2,434	
4-Mar-09	28.3	ND	530	2,516	
340-02	20-Feb-14	86.8	<1.66	806	3,080
	11-Nov-13	87.0	3.50	807	3,160
	8-Aug-13	80.2	4.90	794	3,180
	9-May-13	74.6	<1.66	744	3,180
	13-Feb-13	81.6	<1.72	805	3,550
	5-Nov-12	73.8	4.90	923	3,220
	6-Aug-12	74.0	<1.72	749	3,380
	25-Apr-12	69.8	6.16	727	2,890
	4-Nov-11	75.0	5.74	755	3,620
	22-Jul-11	84.8	7.98	777	2,970
	27-Jan-11	94.1	2.24	760	3,500
	21-Sep-10	92.2	<10.0	778	3,260
	29-Jun-10	87	<0.10	850	3,180
	24-Mar-10	95	ND	930	3,070
	15-Dec-09	82	ND	910	3,072
	1-Sep-09	94	ND	890	3,072
2-Jun-09	43.2	ND	880	2,954	
4-Mar-09	41.5	ND	885	3,098	
Former D&J Dairy (Dominguez 2)					
42-02	26-Feb-14	9.28	<1.66	469	2,180
	26-Nov-13	9.62	2.10	490	2,260
	20-Aug-13	14.5	4.90	459	2,360
	14-May-13	12.0	<1.66	432	2,220
	15-Feb-13	17.6	<1.72	457	2,360
	09-Nov-12	8.99	<1.72	412	2,180
	08-Aug-12	7.73	<1.72	400	1,830
	01-May-12	22.5	<1.72	431	2,210
	16-Feb-12	24.5	<2.17	465	2,770
	09-Nov-11	21.2	3.08	449	2,170
	02-Aug-11	20.5	2.38	424	2,360
	25-Apr-11	29.1	<2.17	365	2,140
	28-Jan-11	22.7	6.72	408	2,150
	1-Oct-10	21.0	<10.0	355	2,010
	27-Jun-10	27	<5.0	360	2,220
	6-Mar-10	31.3	<0.3	380	2,145
	16-Jan-10	25.7	0.3	350	2,090
	15-Sep-09	24.6	0.9	350	2,075
3-Jun-09	30.6	0.6	320	2,045	
14-Mar-09	29.6	0.7	370	2,115	

**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-Feb-14	62.8	<1.66	1,070	3,160
	26-Nov-13	62.9	2.80	1,090	3,660
	15-Aug-13	67.5	17.5	1,090	3,560
	14-May-13	59.6	<1.66	1,150	3,800
	15-Feb-13	60.3	<1.72	1,140	3,800
	9-Nov-12	56.2	<1.72	1,120	3,800
	8-Aug-12	71.1	<1.72	1,370	3,520
	1-May-12	51.5	<1.72	1,030	3,620
	16-Feb-12	51.3	<2.17	1,130	3,760
	9-Nov-11	58.9	2.80	1,000	3,660
	1-Aug-11	59.2	<2.17	1,030	3,720
	25-Apr-11	58.8	<2.17	1,080	3,620
	28-Jan-11	69.5	3.78	1,160	3,690
	1-Oct-10	63.0	<10.0	1,090	3,640
	27-Jun-10	49	<5.0	1,100	3,780
	6-Mar-10	39.6	<0.3	1,180	3,935
	16-Jan-10	43.3	<0.3	1,200	3,800
15-Sep-09	52.3	0.3	1,130	3,765	
3-Jun-09	48.2	0.3	1,240	3,860	
14-Mar-09	32.2	<0.2	1,240	3,800	
42-06	26-Feb-14	59.3	<1.66	417	2,380
	26-Nov-13	76.3	2.10	397	2,270
	20-Aug-13	95.1	4.90	432	2,580
	14-May-13	86.5	<1.66	413	2,390
	15-Feb-13	82.9	<1.72	457	2,430
	9-Nov-12	75.9	<1.72	478	2,570
	8-Aug-12	81.5	1.82	484	2,475
	1-May-12	87.0	1.96	720	2,920
	16-Feb-12	92.4	<2.17	630	3,100
	9-Nov-11	101	<2.17	617	3,000
	2-Aug-11	88.6	3.22	525	2,980
	25-Apr-11	72.2	<2.17	454	2,500
	28-Jan-11	69.8	4.20	421	2,780
	1-Oct-10	113	<10.0	497	2,660
	27-Jun-10	46	<5.0	400	2,550
	6-Mar-10	43.1	<0.3	480	2,510
	16-Jan-10	44.2	0.3	1,150	2,600
14-Sep-09	54.8	0.4	450	2,600	
3-Jun-09	0.02	<0.2	1,240	3,780	
14-Mar-09	49.7	0.2	480	2,540	
42-07	26-Feb-14			Dry	
	26-Nov-13			Dry	
	15-Aug-13			Dry	
	14-May-13			Dry	
	15-Feb-13			Dry	
	9-Nov-12			Dry	
	8-Aug-12			Dry	
	1-May-12			Dry	
	16-Feb-12			Dry	
	9-Nov-11	57.9	<2.17	1,090	3,450
	2-Aug-11			Dry	
	25-Apr-11	68.5	<2.17	1,230	4,080
	28-Jan-11	88.3	4.48	1,130	4,180
	1-Oct-10	92.0	<40.0	1,390	4,260
	27-Jun-10	63	<5.0	1,400	4,330
	6-Mar-10	63.1	<0.3	1,490	4,345
	16-Jan-10	59.6	<0.3	1,480	4,275
15-Sep-09	66.6	<0.3	1,290	4,195	
3-Jun-09	57.4	<0.2	1,550	4,225	
14-Mar-09	43.7	<0.2	1,500	4,110	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
42-08	26-Feb-14	32.6	<1.66	251	1,790
	26-Nov-13	30.8	2.10	275	1,780
	20-Aug-13	30.3	6.30	292	2,000
	14-May-13	29.9	<1.66	259	1,880
	15-Feb-13	31.8	<1.72	284	1,860
	9-Nov-12	30.4	<1.72	283	1,930
	8-Aug-12	36.4	<1.72	307	1,938
	1-May-12	36.0	<1.72	246	1,700
	16-Feb-12	37.0	<2.17	254	1,850
	9-Nov-11	40.0	<2.17	269	1,770
	2-Aug-11	41.3	2.38	253	2,030
	25-Apr-11	51.4	2.66	201	1,970
	28-Jan-11	46.2	5.46	219	2,020
	1-Oct-10	49.0	<10.0	288	2,160
	27-Jun-10	75	<5.0	300	2,220
	6-Mar-10	76.8	<0.3	365	2,290
	16-Jan-10	82.8	<0.3	350	2,315
15-Sep-09	87.1	0.7	410	2,340	
3-Jun-09	65.8	0.8	380	2,175	
14-Mar-09	43.2	0.4	400	2,220	
42-09	26-Feb-14	53.5	<1.66	715	3,030
	26-Nov-13	51.2	2.80	731	3,030
	15-Aug-13	56.1	37.8	725	3,010
	14-May-13	51.6	<1.66	717	3,200
	15-Feb-13	47.0	<1.72	653	2,870
	9-Nov-12	48.4	<1.72	641	3,030
	8-Aug-12	49.5	<1.72	597	2,475
	1-May-12	50.3	<1.72	542	2,820
	16-Feb-12	50.7	<2.17	627	2,920
	9-Nov-11	47.8	<2.17	591	1,810
	1-Aug-11	55.0	<2.17	579	2,750
	25-Apr-11	65.8	<2.17	664	2,820
	28-Jan-11	44.9	<2.17	537	2,940
	28-Sep-10	38.0	<10.0	591	2,760
	27-Jun-10	68	<5.0	610	3,010
	6-Mar-10	NS	NS	NS	NS
	16-Jan-10	52.8	<0.3	690	2,970
15-Sep-09	68.8	0.7	650	3,000	
3-Jun-09	66.5	0.7	690	3,000	
14-Mar-09	59.5	0.4	700	3,050	
42-10	26-Feb-14	0.982	<1.66	416	1,400
	26-Nov-13	1.10	2.10	435	1,420
	20-Aug-13	0.991	9.10	423	1,540
	14-May-13	0.976	<1.66	395	1,400
	15-Feb-13	<0.246	<1.72	415	1,380
	9-Nov-12	<0.0290	<1.72	397	1,350
	8-Aug-12	0.186	<1.72	403	1,328
	1-May-12	0.236	<1.72	363	1,260
	16-Feb-12	<0.500	<2.17	419	1,440
	8-Nov-11	<0.500	<2.17	425	1,510
	2-Aug-11	<0.500	<2.17	469	1,540
	25-Apr-11	<0.500	<2.17	453	1,500
	28-Jan-11	2.15	<2.17	345	1,280
	1-Oct-10	0.220	<10.0	360	1,450
	27-Jun-10	<0.50	<1.0	420	1,490
	6-Mar-10	0.23	<0.3	440	1,500
	16-Jan-10	<0.03	<0.3	430	1,435
15-Sep-09	0.16	<0.3	400	1,425	
3-Jun-09	0.21	<0.2	450	1,535	
14-Mar-09	0.02	<0.2	480	1,480	

**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-Feb-14	1.44	<1.66	339	1,280
	26-Nov-13	1.43	2.80	344	1,260
	20-Aug-13	1.50	2.80	334	1,280
	14-May-13	1.78	<1.66	303	1,220
	15-Feb-13	1.64	<1.72	327	1,210
	9-Nov-12	<0.0290	<1.72	315	1,230
	8-Aug-12	1.21	<1.72	308	1,182
	1-May-12	1.24	<1.72	274	1,160
	16-Feb-12	<0.500	<2.17	337	1,240
	8-Nov-11	1.97	<2.17	334	1,480
	2-Aug-11	3.07	<2.17	308	1,160
	25-Apr-11	3.45	<2.17	304	795
	28-Jan-11	0.470	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-Feb-14	1.87	<1.66	336	1,180
	26-Nov-13	1.95	2.10	341	1,160
	20-Aug-13	1.77	3.50	337	1,200
	14-May-13	1.73	<1.66	319	1,170
	15-Feb-13	1.72	<1.72	332	1,170
	9-Nov-12	<0.0290	<1.72	315	1,170
	8-Aug-12	1.15	2.66	333	1,134
	1-May-12	0.750	<1.72	282	1,180
	16-Feb-12	<0.500	<2.17	341	1,200
	8-Nov-11	<0.500	<2.17	331	730
	2-Aug-11	<0.100	<2.17	331	1,340
	25-Apr-11	<0.500	<2.17	339	1,280
	28-Jan-11	0.580	<2.17	276	970
	1-Oct-10	4.50	<10.0	312	1,280
	27-Jun-10	0.72	<1.0	320	1,270
	6-Mar-10	0.13	<0.3	350	1,230
	16-Jan-10	0.42	<0.3	340	1,250
15-Sep-09	0.65	<0.3	310	1,215	
3-Jun-09	0.82	<0.2	330	1,280	
14-Mar-09	0.70	<0.2	340	1,240	
42-13	26-Feb-14	50.0	<1.66	871	3,340
	26-Nov-13	49.8	3.50	895	3,260
	15-Aug-13	59.9	3.50	891	3,380
	14-May-13	49.7	<1.66	809	3,320
	15-Feb-13	54.3	<1.72	855	3,430
	9-Nov-12	52.2	<1.72	835	3,250
	8-Aug-12	62.3	<1.72	871	3,110
	1-May-12	81.5	<1.72	902	3,550
	16-Feb-12	99.1	<2.17	1,020	3,880
	9-Nov-11	61.5	<2.17	901	3,160
	2-Aug-11	106	<2.17	1,900	3,280
	25-Apr-11	55.9	<2.17	1,000	3,600
	28-Jan-11	52.6	<2.17	868	3,720
	29-Sep-10	44.5	<10.0	833	3,360
	27-Jun-10	48	<5.0	1,000	3,810
	6-Mar-10	NS	NS	NS	NS
	16-Jan-10	46.3	<0.3	1,130	3,810
15-Sep-09	54.8	0.5	1,100	3,940	
3-Jun-09	51.6	<0.2	1,110	3,775	
14-Mar-09	51.0	0.6	1,040	3,735	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
Dominguez					
624-01	25-Feb-14	18.6	<1.66	950	3,080
	19-Nov-13	23.6	2.10	1,080	3,250
	14-Aug-13	15.4	3.50	970	2,990
	13-May-13	20.8	<1.66	894	2,720
	14-Feb-13	15.6	<1.72	827	2,980
	12-Nov-12	12.2	<1.72	652	2,590
	9-Aug-12	17.4	2.80	1,080	3,550
	30-Apr-12	8.69	36.4	1,400	4,180
	7-Feb-12	10.0	9.52	1,420	3,180
	4-Nov-11	10.8	5.60	1,430	3,460
	3-Aug-11	10.7	<2.17	1,580	3,970
	27-Apr-11	<0.500	30.8	1,330	4,040
	25-Jan-11	14.0	<2.17	1,280	3,760
	21-Sep-10	8.20	<10.0	1,260	3,780
	27-Jun-10	11	<2.0	1,600	4,520
	6-Mar-10	17.2	<0.3	910	2,610
	16-Jan-10	5.5	0.4	840	2,540
15-Sep-09	6.5	0.6	760	2,455	
3-Jun-09	16.1	0.7	810	2,790	
14-Mar-09	21.9	0.3	1,190	3,305	
624-02	25-Feb-14	12.4	<1.66	965	3,320
	19-Nov-13	12.6	9.10	969	3,200
	14-Aug-13	11.4	4.20	1,030	3,350
	13-May-13	9.98	<1.66	950	3,360
	14-Feb-13	9.30	2.10	1,110	3,580
	12-Nov-12	12.7	<1.72	1,170	3,830
	9-Aug-12	9.69	<1.72	1,300	4,010
	30-Apr-12	16.4	4.06	1,160	3,650
	7-Feb-12	14.8	<2.17	1,200	3,720
	4-Nov-11	10.7	3.5	1,300	4,060
	3-Aug-11	12.2	<2.17	1,290	3,600
	27-Apr-11	11.6	7.70	1,340	4,170
	25-Jan-11	19.1	<2.17	1,290	3,700
	20-Sep-10	19.6	<10.0	1,300	4,130
	27-Jun-10	14	<2.0	1,400	4,230
	6-Mar-10	23.7	<0.3	1,400	3,880
	16-Jan-10	22.6	0.4	1,300	3,630
15-Sep-09	19.9	0.8	1,260	3,625	
3-Jun-09	29.4	0.4	1,340	3,905	
14-Mar-09	26.5	0.4	1,240	3,655	
624-04	25-Feb-14			Dry	
	19-Nov-13			Dry	
	14-Aug-13			Dry	
	13-May-13			Dry	
	14-Feb-13			Dry	
	12-Nov-12			Dry	
	9-Aug-12			Dry	
	30-Apr-12			Dry	
	7-Feb-12			Dry	
	4-Nov-11			Dry	
	3-Aug-11	1.84	<2.17	478	2,760
	27-Apr-11	2.60	5.74	566	2,830
	26-Jan-11	3.23	2.52	747	3,480
	21-Sep-10	6.0	<10.0	758	3,750
	27-Jun-10	3.7	1.4	810	3,950
	6-Mar-10	4.3	0.4	890	4,050
	16-Jan-10	4.2	0.7	800	3,845
15-Sep-09	9.3	0.8	840	3,750	
3-Jun-09	16.0	0.6	520	2,900	
14-Mar-09	18.1	0.6	520	2,820	

**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	25-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	14-Feb-13	6.72	<1.72	508	2,040
	12-Nov-12	4.82	<1.72	440	2,200
	9-Aug-12	4.11	1.82	472	2,050
	30-Apr-12	3.70	2.10	346	1,710
	7-Feb-12	3.38	<2.17	411	2,040
	4-Nov-11	2.58	4.20	385	1,980
	3-Aug-11	3.34	<2.17	1,080	1,940
	27-Apr-11	3.34	4.76	424	1,840
	26-Jan-11	3.62	<2.17	392	1,740
	21-Sep-10	11.9	<10.0	449	2,300
	27-Jun-10	27	< 5.0	480	2,450
	6-Mar-10	30.5	0.4	520	2,595
	16-Jan-10	21.4	0.9	520	2,605
15-Sep-09	34.8	1.0	530	2,620	
3-Jun-09	33.8	1.3	500	2,650	
14-Mar-09	23.9	1.2	490	2,565	
624-06	25-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	14-Feb-13	31.5	<1.72	1,150	3,600
	12-Nov-12	28.3	<1.72	1,060	3,840
	9-Aug-12	30.8	7.56	1,080	3,420
	30-Apr-12	31.1	8.40	1,010	3,300
	7-Feb-12	30.9	6.30	1,080	3,020
	4-Nov-11	29.5	8.68	1,040	2,860
	3-Aug-11	29.8	<2.17	1,080	3,240
	27-Apr-11	29.0	3.50	1,050	3,180
	26-Jan-11	29.1	2.94	1,080	2,760
	21-Sep-10	26.7	<10.0	1,060	3,270
	27-Jun-10	30	<5.0	1,100	3,570
	6-Mar-10	28.3	<0.3	1,250	3,550
	16-Jan-10	52.2	0.6	2,100	3,545
15-Sep-09	27.8	0.7	1,150	3,425	
3-Jun-09	38.3	0.8	70	4,300	
14-Mar-09	36.5	0.3	1,300	3,800	
624-07	26-Feb-14	Not Sampled - insufficient water to sample			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	14-Feb-13	Dry			
	12-Nov-12	Dry			
	9-Aug-12	Dry			
	30-Apr-12	Dry			
	7-Feb-12	Not Sampled - insufficient water to sample			
	4-Nov-11	Not Sampled - insufficient water to sample			
	3-Aug-11	8.01	<2.17	473	1,600
	27-Apr-11	19.4	3.50	539	2,290
	26-Jan-11	14.7	5.60	516	1,900
	21-Sep-10	20.5	<10.0	531	2,200
	27-Jun-10	61	<5.0	880	3,550
	6-Mar-10	43.4	<0.3	1,080	3,825
	16-Jan-10	49.5	0.5	840	3,275
15-Sep-09	50.1	0.4	960	3,280	
3-Jun-09	75.2	0.8	1,525	4,980	
14-Mar-09	54.3	0.3	1,160	3,580	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
624-08	26-Feb-14	Dry			
	19-Nov-13	Dry			
	14-Aug-13	Dry			
	13-May-13	Dry			
	14-Feb-13	Dry			
	9-Aug-12	Dry			
	30-Apr-12	Dry			
	7-Feb-12	Dry			
	4-Nov-11	Dry			
	3-Aug-11	Dry			
	27-Apr-11	2.45	3.50	200	1,400
	26-Jan-11	1.7	8.12	222	2,940
	21-Sep-10	<2.50	<10.0	197	1,200
	27-Jun-10	2.0	<1.0	220	1,310
	6-Mar-10	0.65	<0.3	280	1,330
16-Jan-10	0.89	<0.3	240	1,215	
15-Sep-09	2.3	0.3	200	1,205	
3-Jun-09	1.7	0.7	210	1,280	
14-Mar-09	1.8	<0.2	205	1,165	
Gonzalez					
177-01	21-Feb-14	33.7	<1.66	1,310	3,870
	18-Nov-13	33.2	2.80	1,330	3,740
	13-Aug-13	32.2	4.20	1,370	3,850
	15-May-13	31.6	<1.66	1,300	3,940
	19-Feb-13	28.4	<1.72	1,310	3,930
	13-Nov-12	27.7	<1.72	1,190	3,780
	13-Aug-12	27.3	2.52	1,160	3,790
	26-Apr-12	28.5	<1.72	1,460	3,500
	6-Feb-12	28.1	<2.17	1,180	3,650
	3-Nov-11	27.4	2.66	1,170	3,790
	2-Aug-11	26.0	2.24	1,200	4,000
	4-May-11	26.6	<2.17	1,160	4,020
	25-Jan-11	23.3	4.06	1,160	3,540
	20-Sep-10	17.6	12.7	1,120	3,480
	29-Jun-10	34	<1.0	1,200	3,660
	28-Apr-10	31	<5.0	1,200	3,680
	20-Jan-10	32	<5.0	1,200	3,640
	21-Oct-09	35	<5.0	1,100	3,700
	7-Jul-09	35	<5.0	1,400	3,700
	6-May-09	34	<5.0	1,300	3,700
22-Jan-09	33	<5.0	1,300	3,700	
177-02	21-Feb-14	67.9	<1.66	725	3,180
	18-Nov-13	111	2.80	682	3,150
	13-Aug-13	30.7	4.20	794	3,020
	15-May-13	27.6	<1.66	910	3,000
	19-Feb-13	29.3	<1.72	902	3,100
	13-Nov-12	35.8	<1.72	870	3,320
	13-Aug-12	47.4	7.70	899	3,650
	26-Apr-12	36.0	<1.72	881	2,960
	6-Feb-12	37.0	<2.17	958	3,320
	3-Nov-11	32.7	<2.17	971	3,450
	3-Aug-11	34.4	2.80	997	3,340
	4-May-11	38.1	2.52	1,050	3,580
	25-Jan-11	31.6	3.36	1,050	3,640
	20-Sep-10	78.0	<10.0	964	3,630
	29-Jun-10	58	<1.0	1,000	3,830
	28-Apr-10	60	<5.0	1,100	3,860
	20-Jan-10	59	<5.0	1,200	4,020
	21-Oct-09	50	<5.0	1,200	4,000
	7-Jul-09	56	<5.0	1,300	4,000
	6-May-09	52	<5.0	1,200	4,000
22-Jan-09	72	<5.0	1,300	4,000	

**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	24-Feb-14	15.6	2.10	1,160	3,900
	18-Nov-13	14.3	2.10	1,150	3,490
	13-Aug-13	17.1	2.80	1,230	4,120
	15-May-13	16.0	<1.66	1,150	3,530
	18-Feb-13	15.5	<1.72	1,290	3,900
	13-Nov-12	12.2	<1.72	1,150	3,900
	13-Aug-12	7.86	<1.72	835	2,810
	26-Apr-12	1.16	<1.72	378	1,430
	6-Feb-12	2.00	<2.17	452	1,580
4-Nov-11	<0.500	3.50	436	1,850	
177-04	24-Feb-14	17.6	<1.66	1,290	4,020
	18-Nov-13	23.0	2.80	1,260	3,850
	13-Aug-13	19.1	2.10	1,270	3,530
	15-May-13	19.4	<1.66	1,110	3,600
	18-Feb-13	20.5	<1.72	1,120	3,450
	13-Nov-12	22.3	<1.72	1,070	3,630
	13-Aug-12	19.7	<1.72	1,000	3,720
	26-Apr-12	21.7	<1.72	1,050	3,480
	2-Feb-12	22.5	<2.17	1,100	3,650
	3-Nov-11	27.5	<2.17	1,100	3,500
	2-Aug-11	21.6	<2.17	1,080	3,670
	4-May-11	21.2	3.64	1,100	3,740
	25-Jan-11	17.5	2.38	1,150	3,760
	20-Sep-10	4.83	<10.0	1,180	4,030
	29-Jun-10	26	<1.0	1,200	4,010
	28-Apr-10	26	<5.0	1,300	4,090
	20-Jan-10	27	<5.0	1,400	4,090
	21-Oct-09	29	<5.0	1,400	4,100
	7-Jul-09	32	<5.0	1,400	3,990
	6-May-09	32	<5.0	1,300	3,800
22-Jan-09	26	<5.0	1,200	1,700	
177-05	24-Feb-14	26.6	<1.66	1,600	4,460
	18-Nov-13	33.5	2.10	1,580	4,360
	13-Aug-13	30.5	2.80	1,640	4,420
	15-May-13	29.8	<1.66	1,510	4,160
	18-Feb-13	32.6	<1.72	1,430	3,900
	13-Nov-12	37.1	<1.72	1,240	4,050
	13-Aug-12	37.6	2.66	1,390	4,360
	26-Apr-12	47.1	<1.72	1,090	3,440
	2-Feb-12	42.2	<2.17	1,170	3,590
	3-Nov-11	30.6	<2.17	1,190	3,060
	2-Aug-11	36.3	<2.17	1,120	3,420
	4-May-11	40.6	5.60	1,090	3,500
	25-Jan-11	39.2	2.10	1,060	3,240
	20-Sep-10	7.39	<10.0	1,050	3,500
	29-Jun-10	39	<1.0	1,100	3,470
	28-Apr-10	40	<5.0	1,200	3,460
	20-Jan-10	43	<5.0	1,100	3,330
	21-Oct-09	50	<5.0	1,100	3,300
	7-Jul-09	38	<5.0	1,200	3,270
	6-May-09	40	<5.0	1,100	3,100
22-Jan-09	40	<5.0	1,100	3,000	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
177-06	24-Feb-14	Dry			
	21-Nov-13	24.1	14.0	1,080	3,110
	18-Nov-13	Insufficient Water to Sample			
	13-Aug-13	Insufficient Water to Sample			
	15-May-13	Insufficient Water to Sample			
	18-Feb-13	17.4	<1.72	963	3,000
	13-Nov-12	16.1	<1.72	918	3,020
	26-Apr-12	Dry			
	2-Feb-12	16.1	4.76	934	2,940
	7-Dec-11	15.1	<2.17	892	2,760
	2-Aug-11	16.1	<2.17	910	3,020
	4-May-11	17.2	4.90	955	2,930
	25-Jan-11	19.2	<2.05	923	2,740
	20-Sep-10	<2.50	<10.0	890	2,880
	29-Jun-10	23	<1.0	940	2,960
	28-Apr-10	21	<5.0	980	2,960
	20-Jan-10	26	<5.0	1,000	2,910
	21-Oct-09	25	<5.0	980	2,900
	7-Jul-09	25	<5.0	1,000	2,850
	6-May-09	25	<5.0	1,000	2,800
22-Jan-09	23	<5.0	960	2,800	
15-Mar-03	44.4	1.5	1,205	4,007	
177-07R	24-Feb-14	22.7	<1.66	903	3,080
	18-Nov-13	21.5	2.10	911	3,060
	13-Aug-13	30.3	2.80	1,010	3,540
	15-May-13	29.2	<1.66	1,000	3,420
	19-Feb-13	31.0	<1.72	976	3,360
	13-Nov-12	31.0	<1.72	1,040	3,570
	13-Aug-12	26.5	<1.72	1,040	3,670
	26-Apr-12	22.8	<1.72	1,010	2,690
	6-Feb-12	28.5	5.60	1,060	2,730
	4-Nov-11	29.3	2.66	1,050	2,830
3-Aug-11	25.2	2.80	1,050	3,250	
7-Apr-11	21.4	2.52	1,070	8,660	
Central Area					
Buena Vista Dairy II					
74-01	3-Mar-14	57.2	2.10	855	3,200
	19-Nov-13	63.6	4.20	898	3,210
	21-Aug-13	63.9	2.80	829	3,180
	16-May-13	72.3	<1.66	816	3,090
	19-Feb-13	59.1	<1.72	840	3,140
	14-Nov-12	94.2	8.40	963	3,510
	10-Aug-12	78.6	3.50	922	2,150
	3-May-12	65.3	<1.72	778	3,265
	8-Feb-12	Not Sampled			
	3-Nov-11	64.6	<2.17	811	2,830
	1-Aug-11	73.2	<2.17	770	3,040
	26-Apr-11	67.8	<2.17	730	3,300
	25-Jan-11	41.7	13.0	738	2,960
	17-Sep-10	36.7	<10.0	695	2,760
	29-Jun-10	74	<1.0	850	3,350
	24-Mar-10	70	ND	840	3,070
	14-Dec-09	84	0.14	750	2,480
	1-Sep-09	92	ND	730	2,914
	2-Jun-09	33.2	ND	650	2,632
	3-Mar-09	43.8	ND	735	2,666

**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	3-Mar-14	24.7	<1.66	588	2,260
	20-Nov-13	28.8	2.10	625	2,340
	21-Aug-13	20.0	2.80	564	2,220
	16-May-13	15.5	<1.66	549	2,120
	19-Feb-13	13.9	<1.72	525	1,900
	14-Nov-12	12.7	2.10	484	2,150
	10-Aug-12	14.0	2.10	532	2,060
	3-May-12	16.4	<1.72	495	1,980
	8-Feb-12	15.2	5.46	519	2,150
	3-Nov-11	26.3	<2.17	558	2,510
	29-Jul-11	52.8	2.24	630	2,710
	26-Apr-11	93.2	<2.17	831	3,610
	25-Jan-11	65.7	2.80	824	3,670
	17-Sep-10	30.6	<10.0	665	2,400
	29-Jun-10	45	<1.0	730	2,780
	24-Mar-10	20.6	ND	810	2,612
	14-Dec-09	14.6	0.14	770	2,452
1-Sep-09	17.3	0.7	760	2,474	
2-Jun-09	17.6	0.84	820	4,866	
3-Mar-09	45.1	ND	1,265	4,556	
74-03	3-Mar-14	5.75	<1.66	1,220	4,140
	20-Nov-13	10.7	2.80	1,200	4,070
	21-Aug-13	5.62	3.50	1,230	4,100
	16-May-13	7.88	<1.66	1,160	3,920
	19-Feb-13	2.81	<1.72	1,250	4,480
	14-Nov-12	1.06	<1.72	1,300	4,440
	10-Aug-12	2.25	<1.72	1,450	4,900
	3-May-12	9.92	<1.72	1,330	3,920
	8-Feb-12	11.0	<2.17	1,420	4,170
	3-Nov-11	27.6	<2.17	1,420	4,730
	1-Aug-11	15.0	<2.17	1,450	4,870
	26-Apr-11	4.17	<2.17	1,480	4,690
	25-Jan-11	2.02	<2.17	1,460	4,960
	20-Sep-10	21.3	<10.0	1,490	4,840
	29-Jun-10	1.5	<1.0	1,400	4,630
	24-Mar-10	6.1	ND	1,530	4,400
	14-Dec-09	14.1	ND	1,550	4,560
1-Sep-09	18.9	ND	1,630	4,734	
2-Jun-09	2.9	ND	1,590	1,782	
3-Mar-09	2.65	ND	1,510	4,664	
74-04	3-Mar-14	18.1	<1.66	565	2,080
	19-Nov-13	17.3	2.10	570	1,910
	22-Aug-13	16.4	3.50	560	2,160
	16-May-13	17.6	<1.66	502	1,890
	20-Feb-13	18.5	<1.72	499	1,960
	14-Nov-12	19.3	<1.72	499	2,140
	10-Aug-12	18.8	<1.72	477	1,920
	3-May-12	33.6	<1.72	436	1,800
	8-Feb-12	31.6	<2.17	473	2,020
	3-Nov-11	13.4	<2.17	439	1,080
	29-Jul-11	15.3	<2.17	438	1,580
	26-Apr-11	12.8	<2.17	451	1,820
	25-Jan-11	6.50	<2.17	434	1,810
	20-Sep-10	10.6	<10.0	441	1,640
	29-Jun-10	15	<1.0	500	1,840
	24-Mar-10	11.4	0.28	570	1,792
	14-Dec-09	11.5	ND	560	1,738
1-Sep-09	19.3	ND	550	1,792	
2-Jun-09	7.2	ND	570	2,024	
3-Mar-09	20.3	ND	530	1,884	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
74-05	25-Feb-14	18.3	<1.66	506	1,960
	19-Nov-13	18.4	<1.66	493	1,840
	22-Aug-13	18.8	4.2	497	1,980
	16-May-13	17.5	<1.66	469	1,860
	20-Feb-13	17.8	<1.72	470	1,870
	14-Nov-12	17.0	<1.72	219	1,900
	10-Aug-12	18.0	<1.72	463	1,800
	3-May-12	18.0	<1.72	421	1,900
	8-Feb-12	17.4	<2.17	442	1,960
	3-Nov-11	17.9	<2.17	442	960
	29-Jul-11	23.3	<2.17	449	2,000
	26-Apr-11	21.5	<2.17	446	1,900
	25-Jan-11	16.5	<2.17	446	1,940
	17-Sep-10	17.6	<10.0	439	1,880
	29-Jun-10	32	<1.0	520	2,070
	24-Mar-10	23.2	ND	620	1,960
	14-Dec-09	15.9	ND	600	1,924
1-Sep-09	25.2	ND	540	1,964	
2-Jun-09	10.8	ND	560	2,068	
3-Mar-09	33.2	ND	535	2,038	
River Valley Dairy					
167-01	28-Feb-14	Not Sampled			
	10-Dec-13	Not Sampled			
	27-Aug-13	<0.164	10.5	290	1,260
	17-May-13	Not Sampled			
	20-Feb-13	Not Sampled			
	15-Nov-12	Not Sampled			
	14-Aug-12	Not Sampled			
	2-May-12	Not Sampled			
	30-Jan-12	Not Sampled			
	2-Nov-11	Not Sampled			
	25-Jul-11	Not Sampled			
	28-Apr-11	<0.500	3.92	720	2,960
	20-Jan-11	Not Sampled			
	27-Sep-10	1.55	9.94	731	2,540
	28-Jun-10	Not Sampled			
	5-Mar-10				
	15-Jan-10				
14-Sep-09					
2-Jun-09					
15-Mar-09	Not Sampled				
167-01A	28-Feb-14	2.03	<1.66	656	2,820
	10-Dec-13	2.35	2.80	643	2,720
	26-Aug-13	4.84	10.5	907	3,610
	17-May-13	4.83	<1.66	794	3,420
	20-Feb-13	1.10	<1.72	845	3,360
	15-Nov-12	4.02	<1.72	778	3,440
	14-Aug-12	1.78	4.20	888	3,260
	2-May-12	2.55	1.82	781	3,180
	30-Jan-12	2.54	3.50	755	2,940
	2-Nov-11	11.2	4.62	1,080	3,620
	25-Jul-11	2.13	3.92	943	3,330
	28-Apr-11	4.03	<2.17	1,030	3,710
	20-Jan-11	1.26	2.1	968	5,100
	22-Sep-10	1.40	3.36	1,010	3,470
	28-Jun-10	6.07	1.1	1,050	3,710
	5-Mar-10	9.3	0.8	1,040	3,605
	15-Jan-10	5.3	0.5	1,090	3,590
14-Sep-09	13.4	0.6	1,040	3,530	
2-Jun-09	13.7	0.7	980	3,505	
15-Mar-09	22.2	0.2	740	3,130	

**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	28-Feb-14	Dry			
	10-Dec-13	Dry			
	23-Aug-13	Dry			
	17-May-13	Not Sampled			
	20-Feb-13	Not Sampled			
	15-Nov-12	Not Sampled			
	14-Aug-12	Not Sampled			
	30-Jan-12	Not Sampled			
	2-Nov-11	<0.500	3.64	432	650
	25-Jul-11	Dry			
	28-Apr-11	<0.500	2.94	500	1,910
	20-Jan-11	0.716	< 2.05	546	1,840
	22-Sep-10	<0.846	<10.0	610	2,100
	28-Jun-10	Not Sampled			
	5-Mar-10				
	15-Jan-10				
	14-Sep-09				
2-Jun-09					
28-Apr-08	7.0	0.3	780	2,580	
167-03	28-Feb-14	15.4	<1.66	516	2,140
	10-Dec-13	17.6	<1.66	578	2,310
	26-Aug-13	19.0	2.80	587	2,440
	20-May-13	16.7	<1.66	543	2,140
	21-Feb-13	13.0	<1.72	500	1,950
	15-Nov-12	15.0	<1.72	503	2,150
	14-Aug-12	16.6	<1.72	500	2,350
	2-May-12	17.5	<1.72	499	2,220
	27-Jan-12	21.0	<2.17	572	2,250
	2-Nov-11	22.0	<2.17	564	2,150
	25-Jul-11	18.5	6.16	543	2,250
	28-Apr-11	17.1	<2.17	508	2,210
	20-Jan-11	13.2	2.24	467	1,880
	22-Sep-10	9.19	<10.0	472	2,120
	28-Jun-10	20.4	<5.0	567	2,310
	5-Mar-10	18.4	<0.3	610	2,265
	15-Jan-10	13.7	0.6	620	2,015
	14-Sep-09	23.1	0.4	590	2,240
2-Jun-09	25.0	0.5	680	2,515	
15-Mar-09	30.9	0.2	760	2,615	
167-04	3-Mar-14	25.1	2.10	1,180	4,080
	10-Dec-13	23.8	2.10	1,190	4,070
	26-Aug-13	25.5	6.30	1,090	3,900
	17-May-13	4.40	<1.66	796	4,170
	20-Feb-13	21.9	<1.72	1,320	4,660
	15-Nov-12	7.77	<1.72	1,150	4,380
	14-Aug-12	23.2	2.10	1,110	4,540
	2-May-12	18.6	13.6	1,050	4,020
	27-Jan-12	15.6	3.50	1,500	4,840
	2-Nov-11	Not Sampled - insufficient water to sample			
	26-Jul-11	19.3	4.62	1,270	4,560
	28-Apr-11	7.95	73.1	1,610	4,960
	20-Jan-11	Not Sampled			
	28-Jun-10				
	5-Mar-10				
	15-Jan-10				
	14-Sep-09				
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	3-Mar-14	2.25	<1.66	818	3,180
	10-Dec-13	1.58	3.50	886	3,290
	26-Aug-13	4.54	3.50	767	3,400
	17-May-13	23.3	<1.66	1,120	3,140
	21-Feb-13	3.73	<1.72	842	3,360
	19-Nov-12	2.31	<1.72	805	3,480
	14-Aug-12	1.48	<1.72	1,630	3,220
	2-May-12	3.50	2.24	777	3,180
	30-Jan-12	4.40	<2.17	808	3,140
	2-Nov-11	3.89	3.64	782	2,560
	26-Jul-11	4.41	3.22	792	3,070
	28-Apr-11	12.9	2.80	976	3,630
	20-Jan-11	3.53	2.52	748	2,980
	23-Sep-10	2.70	<10.0	758	2,820
	28-Jun-10	4.07	<1.0	789	2,930
	5-Mar-10	2.9	<0.3	960	2,945
15-Jan-10	1.8	<0.3	380	715	
14-Sep-09	1.9	0.4	890	2,970	
2-Jun-09	1.8	0.9	850	3,005	
15-Mar-09	4.6	0.2	910	3,230	
167-06	28-Feb-14	22.1	<1.66	707	2,620
	10-Dec-13	20.8	6.30	744	2,740
	26-Aug-13	29.0	2.10	757	2,740
	20-May-13	23.9	<1.66	704	2,620
	20-Feb-13	22.8	<1.72	725	2,660
	19-Nov-12	23.7	<1.72	718	2,980
	14-Aug-12	25.1	<1.72	677	2,910
	2-May-12	27.2	<1.72	688	2,480
	30-Jan-12	29.1	<2.17	754	2,880
	2-Nov-11	35.7	<2.17	716	3,390
	25-Jul-11	35.0	5.32	702	2,640
	28-Apr-11	35.4	<2.17	676	2,790
	20-Jan-11	29.6	2.38	634	2,560
	22-Sep-10	19.8	<10.0	655	2,630
	28-Jun-10	34.8	2.35	687	2,700
	5-Mar-10	30.9	<0.3	730	2,730
15-Jan-10	26.2	0.4	750	2,755	
14-Sep-09	40.4	<0.3	700	2,680	
2-Jun-09	31.5	0.4	790	2,715	
15-Mar-09	36.2	0.7	730	2,715	
167-07	28-Feb-14	<0.213	2.10	229	1,540
	10-Dec-13	0.960	6.30	233	1,770
	26-Aug-13	2.00	4.20	681	4,770
	17-May-13	<0.0420	<1.66	319	1,840
	20-Feb-13	<0.246	<1.72	446	3,640
	15-Nov-12	<0.0595	<1.72	498	3,280
	14-Aug-12	<0.114	4.06	1,160	6,090
	2-May-12	0.0285	<1.72	367	1,890
	30-Jan-12	<0.500	<2.17	411	1,850
	2-Nov-11	<0.500	<2.17	366	2,460
	25-Jul-11	<1.00	3.50	446	4,400
	28-Apr-11	<0.500	<2.17	292	1,750
	20-Jan-11	0.448	2.10	239	1,280
	22-Sep-10	0.0400	2.10	268	1,590
	28-Jun-10	<0.5	<2.0	287	1,600
	5-Mar-10	0.16	<0.3	370	1,650
15-Jan-10	<0.03	<0.3	250	2,065	
14-Sep-09	0.19	<0.3	390	1,700	
2-Jun-09	0.11	0.4	740	2,575	
15-Mar-09	0.11	0.2	1,090	3,165	

**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	4-Mar-14	1.02	<1.66	884	3,090
	10-Dec-13	Not Sampled			
	27-Aug-13	Not Sampled			
	21-May-13	1.13	<1.66	723	2,820
	25-Feb-13	0.895	<1.72	827	2,640
	15-Nov-12	Well Damaged - Not Sampled			
	14-Aug-12	0.192	<1.72	788	2,860
	2-May-12	0.399	<1.72	744	2,580
	30-Jan-12	<0.500	<2.17	805	2,440
	2-Nov-11	1.93	<2.17	759	2,520
	26-Jul-11	3.77	4.20	779	3,030
	28-Apr-11	3.74	<2.17	793	2,740
	20-Jan-11	<0.239	2.10	764	2,640
	23-Sep-10	0.250	<10.0	756	2,720
	28-Jun-10	5.51	<0.5	804	2,990
	5-Mar-10	5.5	<0.3	830	2,750
	15-Jan-10	0.84	<0.3	720	2,530
14-Sep-09	2.9	0.3	640	2,380	
2-Jun-09	2.1	0.6	750	2,785	
15-Mar-09	3.2	0.2	740	2,710	
167-09	3-Mar-14	6.49	<1.66	756	2,840
	10-Dec-13	3.82	4.90	777	2,980
	27-Aug-13	6.24	5.60	772	3,320
	17-May-13	10.7	<1.66	726	3,050
	21-Feb-13	4.51	<1.72	959	3,580
	19-Nov-12	12.8	<1.72	979	3,560
	14-Aug-12	8.47	2.10	916	3,760
	2-May-12	14.5	<1.72	1,070	4,000
	30-Jan-12	13.2	2.80	1,010	3,590
	3-Nov-11	7.53	8.40	988	3,590
	26-Jul-11	<1.00	3.78	736	2,300
	28-Apr-11	<0.500	2.38	467	2,140
	20-Jan-11	0.0147	<2.05	429	2,160
	24-Sep-10	0.0300	<10.0	432	1,500
	28-Jun-10	<0.5	<1.0	491	2,160
	5-Mar-10	0.05	<0.3	580	2,150
	15-Jan-10	<0.03	<0.3	500	2,250
14-Sep-09	<0.03	<0.3	530	2,055	
2-Jun-09	0.04	0.7	540	2,205	
15-Mar-09	0.07	0.2	630	2,400	
Big Sky Dairy					
833-01	4-Mar-14	Dry			
	6-Nov-13	Dry			
	29-Aug-13	Dry			
	21-May-13	Dry			
	26-Feb-13	Dry			
	19-Nov-12	Dry			
	15-Aug-12	Dry			
	7-May-12	Dry			
	15-Feb-12	Dry			
	1-Nov-11	Dry			
	21-Jul-11	Dry			
	29-Apr-11	Not Sampled - insufficient water to sample			
	24-Jan-11	33.6	4.20	997	3,100
	23-Sep-10	29.1	<10.0	881	3,300
	28-Jun-10	1.7	1.8	180	790
23-Mar-10	28.3	0.7	1,025	2,640	
14-Dec-09	21.8	ND	975	2,800	
31-Aug-09	15.3	ND	999	2,894	
1-Jun-09	8.6	ND	1,030	2,382	
2-Mar-09	37.1	ND	1,070	3,750	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
833-02	5-Mar-14	79.8	<1.66	1,120	3,920
	20-Nov-13	65.4	2.10	884	3,060
	5-Sep-13	85.8	69.3	1,080	4,270
	21-May-13	69.2	<1.66	858	3,140
	25-Feb-13	97.0	<1.72	1,110	3,820
	19-Nov-12	84.3	2.10	1,030	4,020
	15-Aug-12	37.5	2.94	535	2,440
	7-May-12	43.3	65.1	635	2,420
	15-Feb-12	87.2	4.34	889	3,660
	1-Nov-11	82.3	2.38	885	4,010
	21-Jul-11	91.6	3.08	880	3,510
	29-Apr-11	81.6	6.02	840	3,500
	24-Jan-11	69.3	2.66	789	3,090
	23-Sep-10	52.9	<10.0	833	3,650
	28-Jun-10	29	<5.0	560	2,200
	23-Mar-10	15.9	ND	660	2,066
	14-Dec-09	11.5	0.28	650	2,018
	31-Aug-09	12.4	ND	660	2,170
1-Jun-09	<0.5	ND	650	3,358	
2-Mar-09	3.54	13.44	585	1,978	
833-03	3-Mar-14	Dry			
	6-Nov-13	Dry			
	29-Aug-13	Dry			
	21-May-13	Dry			
	25-Feb-13	Dry			
	19-Nov-12	Dry			
	15-Aug-12	Dry			
	3-May-12	Dry			
	15-Feb-12	Dry			
	1-Nov-11	Dry			
	21-Jul-11	Dry			
	4-May-11	24.8	4.20	1,660	4,120
	24-Jan-11	30.4	2.66	1,650	4,090
	23-Sep-10	18.1	<10.0	1,410	3,880
	28-Jun-10	5.0	5.5	650	1,870
	23-Mar-10	14.0	ND	1,750	4,044
	14-Dec-09	11.8	0.28	1,839	4,280
	31-Aug-09	8.9	ND	1,760	4,216
1-Jun-09	90.4	ND	1,620	3,060	
2-Mar-09	21.2	ND	1,580	3,970	
833-04	4-Mar-14	50.0	<1.66	1,010	3,530
	20-Nov-13	12.8	2.10	711	2,280
	30-Aug-13	37.9	2.80	868	3,260
	21-May-13	41.9	<1.66	875	3,180
	25-Feb-13	2.45	<1.72	1,050	3,600
	19-Nov-12	50.0	<1.72	1,010	3,770
	15-Aug-12	32.7	2.66	783	2,680
	3-May-12	24.1	<1.72	623	2,920
	15-Feb-12	49.9	<2.17	942	3,320
	1-Nov-11	43.4	<2.17	867	3,040
	21-Jul-11	45.3	2.52	883	3,410
	29-Apr-11	46.2	<2.17	902	3,280
	24-Jan-11	40.9	<2.05	755	3,040
	24-Sep-10	<50.0	<10.0	915	3,480
	28-Jun-10	18	<2.0	500	1,830
	23-Mar-10	11.3	ND	560	1,648
	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	4-Mar-14	18.5	<1.66	1,170	3,170
	25-Nov-13	17.8	2.80	1,060	2,900
	29-Aug-13	20.9	20.3	911	2,660
	21-May-13	14.7	<1.66	1,070	2,920
	26-Feb-13	16.8	<1.72	1,270	3,140
	20-Nov-12	15.0	2.10	1,070	3,100
	15-Aug-12	13.9	<1.72	1,100	3,250
	3-May-12	12.8	<1.72	1,030	2,790
	15-Feb-12	14.9	<2.17	1,230	3,100
	1-Nov-11	12.2	2.24	1,150	2,580
	21-Jul-11	12.0	2.66	1,210	3,180
	29-Apr-11	17.6	<2.17	1,330	3,300
	24-Jan-11	23.2	2.66	1,340	3,430
	24-Sep-10	28.9	<10.0	1,330	3,800
	28-Jun-10	12	<2.0	1,200	3,090
	23-Mar-10	12.2	ND	1,240	2,942
	14-Dec-10	6.7	0.56	1,280	3,096
	31-Aug-09	9.0	ND	1,220	3,152
1-Jun-09	3.43	ND	1,230	3,026	
2-Mar-09	11	ND	1,255	3,134	
833-06	4-Mar-14	41.9	<1.66	847	2,800
	21-Nov-13	27.4	3.50	771	2,490
	30-Aug-13	25.3	2.80	656	2,310
	20-May-13	25.9	<1.66	816	2,640
	25-Feb-13	21.6	<1.72	924	2,750
	19-Nov-12	24.2	<1.72	920	2,840
	15-Aug-12	23.4	<1.72	845	2,670
	3-May-12	20.7	<1.72	702	2,560
	14-Feb-12	26.4	<2.17	727	2,480
	2-Nov-11	28.8	3.08	688	1,900
	21-Jul-11	70.1	7.70	682	2,650
	4-May-11	36.4	7.70	717	2,440
	20-Jan-11	61.0	2.80	738	2,360
	23-Sep-10	64.3	<10.0	761	2,680
	28-Jun-10	23	<5.0	630	2,310
	23-Mar-10	24.8	2.38	700	2,184
	14-Dec-09	22.7	1.68	820	2,344
	31-Aug-09	25.1	1.96	790	2,708
1-Jun-09	106	ND	680	2,280	
2-Mar-09	66.4	ND	610	2,160	
833-07	4-Mar-14	73.0	<1.66	1,390	4,420
	21-Nov-13	78.3	2.80	1,330	4,380
	29-Aug-13	78.4	4.90	1,330	4,420
	21-May-13	88.7	<1.66	1,400	4,730
	26-Feb-13	95.5	<1.72	1,470	4,500
	20-Nov-12	95.1	<1.72	1,130	4,290
	15-Aug-12	99.8	2.52	1,540	5,110
	7-May-12	95.6	7.56	1,460	4,880
	15-Feb-12	90.3	<2.17	1,340	4,660
	1-Nov-11	94.2	<2.17	1,090	3,840
	21-Jul-11	105	<2.17	115	4,090
	29-Apr-11	100	<2.17	1,220	4,380
	24-Jan-11	100	2.10	1,140	4,350
	24-Sep-10	129	<10.0	933	3,800
	28-Jun-10	69	<5.0	1,300	4,160
	23-Mar-10	106	ND	1,320	3,884
	14-Dec-09	101	0.42	1,260	3,988
	31-Aug-09	74	8.68	1,180	3,978
1-Jun-09	12.4	8.68	1,180	3,964	
2-Mar-09	33.2	ND	1,380	3,866	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
833-08	4-Mar-14	100	<1.66	807	3,220
	21-Nov-13	86.3	<1.66	827	3,000
	29-Aug-13	79.6	4.90	971	3,300
	21-May-13	80.2	<1.66	953	3,320
	26-Feb-13	83.1	<1.72	877	2,940
	20-Nov-12	60.8	<1.72	1,070	3,580
	15-Aug-12	57.8	2.52	987	3,480
	3-May-12	61.4	<1.72	927	3,040
	15-Feb-12	77.6	<2.17	1,020	3,200
	1-Nov-11	69.8	4.20	966	3,080
	21-Jul-11	68.8	<2.17	963	3,240
	29-Apr-11	75.9	<2.17	950	3,330
	24-Jan-11	93.4	2.10	930	3,190
	23-Sep-10	91.8	<10.0	985	3,600
	28-Jun-10	35	<5.0	630	2,290
	23-Mar-10	33	ND	700	2,108
	14-Dec-09	31	ND	950	2,710
31-Aug-09	63	ND	1,020	3,576	
1-Jun-09	41.4	ND	1,000	3,492	
2-Mar-09	121	ND	700	2,038	
833-09	5-Mar-14	125	<1.66	998	4,430
	20-Nov-13	137	<1.66	1,060	4,640
	29-Aug-13	82.2	3.50	786	3,860
	22-May-13	78.1	<1.66	786	3,630
	28-Feb-13	101	<1.72	876	4,060
	20-Nov-12	89.6	<1.72	731	3,760
	15-Aug-12	99.3	<1.72	875	3,780
	7-May-12	80.4	<1.72	745	3,830
	15-Feb-12	94.8	<2.17	725	3,580
	1-Nov-11	93.0	<2.17	779	3,880
	21-Jul-11	135	<2.17	1,070	4,550
	4-May-11	147	<2.17	1,420	5,540
	25-Jan-11	134	2.80	1,420	4,850
	24-Sep-10	58.2	<10.0	1,050	4,110
	28-Jun-10	50	<5.0	1,200	4,380
	23-Mar-10	16.3	0.56	1,100	3,624
	14-Dec-09	2.7	0.28	960	3,184
31-Aug-09	6.6	ND	870	3,178	
1-Jun-09	18.10	1.12	880	3,164	
2-Mar-09	7.07	ND	825	3,202	
833-10	5-Mar-14	2.47	<1.66	679	2,660
	20-Nov-13	2.93	<1.66	695	2,620
	29-Aug-13	3.77	4.20	642	2,800
	22-May-13	3.96	<1.66	648	2,580
	28-Feb-13	4.19	<1.72	689	2,640
	20-Nov-12	4.25	<1.72	608	2,540
	15-Aug-12	4.93	2.52	585	2,530
	7-May-12	3.95	<1.72	581	2,350
	15-Feb-12	3.18	<2.17	582	2,440
	1-Nov-11	3.69	<2.17	573	2,590
	21-Jul-11	4.63	3.78	597	2,480
	4-May-11	5.19	<2.17	714	2,670
	25-Jan-11	8.46	2.10	649	2,730
	24-Sep-10	<10.0	<10.0	654	2,250
	28-Jun-10	3.6	<1.0	750	2,790
	23-Mar-10	6.8	ND	1,220	3,868
	14-Dec-09	3.7	0.14	790	2,576
31-Aug-09	4.7	ND	750	2,548	
1-Jun-09	7.1	ND	650	2,458	
2-Mar-09	2.43	ND	855	2,954	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
Sunset/Desert Land Dairy					
257-01	6-Mar-14	44.3	<1.66	707	3,130
	25-Nov-13	42.4	2.80	726	3,090
	28-Aug-13	44.4	5.60	719	3,160
	22-May-13	33.6	<1.66	660	3,100
	21-Feb-13	28.3	<1.72	665	3,200
	21-Nov-12	24.7	2.80	625	3,130
	16-Aug-12	23.2	<1.72	617	3,060
	26-Apr-12	23.7	22.7	680	2,920
	9-Feb-12	19.4	<2.17	603	2,940
	1-Nov-11	28.4	<2.17	619	2,730
	22-Jul-11	44.8	<2.17	673	3,270
	26-Apr-11	103	3.78	870	4,440
	19-Jan-11	59.3	3.08	743	3,420
	24-Sep-10	58.0	<10.0	685	3,120
	28-Jun-10	100	<1.0	820	3,800
	24-Mar-10	187	ND	1,100	4,342
	14-Dec-09	71	0.14	910	3,860
31-Aug-09	49	ND	880	3,706	
2-Jun-09	64	ND	910	3,822	
3-Mar-09	89	ND	1,135	4,652	
257-02	6-Mar-14	10.4	<1.66	530	2,120
	25-Nov-13	11.1	2.80	529	2,070
	28-Aug-13	7.59	8.40	511	2,200
	22-May-13	3.39	<1.66	469	1,880
	21-Feb-13	10.3	<1.72	470	1,980
	21-Nov-12	10.0	2.80	468	2,060
	16-Aug-12	14.8	<1.72	484	2,170
	26-Apr-12	23.2	8.40	505	1,840
	9-Feb-12	11.1	<2.17	443	1,840
	1-Nov-11	19.3	2.24	442	3,150
	22-Jul-11	28.7	<2.17	501	2,160
	26-Apr-11	24.9	2.80	433	2,000
	19-Jan-11	13.3	2.52	455	1,500
	24-Sep-10	21.0	<10.0	445	1,590
	29-Jun-10	24	<1.0	560	2,180
	24-Mar-10	22.3	ND	570	1,840
	14-Dec-09	19.3	0.14	480	1,916
31-Aug-09	14.2	ND	410	1,518	
2-Jun-09	1.86	ND	500	1,690	
3-Mar-09	30.4	ND	495	1,632	
257-03	6-Mar-14	6.06	<1.66	546	2,380
	25-Nov-13	2.03	4.90	494	1,900
	28-Aug-13	4.55	4.90	569	2,360
	22-May-13	7.23	<1.66	658	2,640
	21-Feb-13	2.65	<1.72	520	2,060
	21-Nov-12	3.11	2.80	490	2,250
	16-Aug-12	17.6	2.10	509	2,420
	26-Apr-12	6.60	4.20	601	2,330
	14-Feb-12	11.2	<2.17	636	2,620
	1-Nov-11	7.37	2.80	537	2,210
	22-Jul-11	12.9	2.80	576	2,100
	26-Apr-11	12.5	5.88	525	2,400
	19-Jan-11	2.67	2.24	377	1,600
	24-Sep-10	8.00	<10.0	400	1,670
	29-Jun-10	17	1.1	660	2,570
	24-Mar-10	10.1	1.12	640	2,342
	14-Dec-09	5.9	0.56	760	2,638
31-Aug-09	10.7	0.84	610	2,260	
2-Jun-09	5.99	ND	570	2,284	
3-Mar-09	334*	ND	690	2,538	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
257/260-01	6-Mar-14	4.22	<1.66	644	2,780
	25-Nov-13	3.30	6.30	580	2,220
	28-Aug-13	2.81	7.70	624	2,460
	22-May-13	2.39	<1.66	673	2,820
	21-Feb-13	9.35	<1.72	816	2,980
	21-Nov-12	13.0	3.50	722	3,020
	16-Aug-12	3.67	6.30	667	2,620
	26-Apr-12	6.83	2.80	575	2,660
	14-Feb-12	9.68	<2.17	565	2,180
	1-Nov-11	16.7	2.94	658	2,850
	22-Jul-11	4.66	3.64	440	1,860
	26-Apr-11	<0.500	4.34	624	2,580
	19-Jan-11	1.21	4.20	480	1,860
	24-Sep-10	11.0	<10.0	576	2,480
	30-Jun-10	5.4	<5.0	530	1,980
	23-Mar-10	5.0	ND	340	982
14-Dec-09	45	26.32	220	520	
31-Aug-09	0.3	8.7	570	1,704	
2-Jun-09	1.65	7.0	660	1,936	
3-Mar-09	3.98	1.12	555	1,908	
McAnally Enterprises					
MW-4	13-Mar-09	3.5	<0.5	2,110	5,686
Southern Area					
Del Oro Dairy					
692-01	13-Mar-14	97.8	<1.66	647	2,820
	4-Dec-13	2.57	7.00	706	2,840
	4-Sep-13	Not Sampled			
	28-May-13	82.4	<1.66	612	2,660
	27-Feb-13	87.9	<1.72	654	2,690
	30-Nov-12	117	<1.72	821	3,490
	20-Aug-12	Pump was not operational			
	8-May-12	163	<1.72	1,060	4,820
	17-Feb-12	166	7.28	1,090	4,000
	8-Nov-11	168	6.44	1,180	4,690
	29-Jul-11	176	<2.17	1,210	4,840
	22-Apr-11	140		998	3,880
	19-Jan-11	213	2.10	1,070	4,320
	1-Oct-10	222	<10.0	1,060	4,640
	30-Jun-10	230	<5.0	1,100	4,080
	30-Mar-10	117.5	3	1,080	3,991
	8-Dec-09	107	1	1,060	4,897
	12-Aug-09	127	3	1,120	4,955
	4-May-09	120	3	1,160	4,295
692-02	7-Mar-14	129	<1.66	912	3,420
	3-Dec-13	108	2.80	906	3,520
	4-Sep-13	120	2.80	925	3,600
	23-May-13	47.8	<1.66	742	2,720
	27-Feb-13	3.37	<1.72	396	1,520
	30-Nov-12	<0.0290	<1.72	358	1,450
	20-Aug-12	1.72	<1.72	371	1,460
	8-May-12	1.75	<1.72	339	1,350
	17-Feb-12	2.55	<2.17	410	1,490
	31-Oct-11	4.69	<2.17	451	1,720
	29-Jul-11	24.1	<2.17	504	2,280
	27-Apr-11	92.3	<10.0	921	3,080
	26-Jan-11	47.2	3.64	706	2,490
	1-Oct-10	Not Sampled			
	30-Jun-10	140	<5.0	1,100	3,520
	30-Mar-10	107.5	1	1,320	3,861
	8-Dec-09	96	1	1,200	4,073
	12-Aug-09	66	3	1,140	4,317
	4-May-09	52	1	1,100	3,337

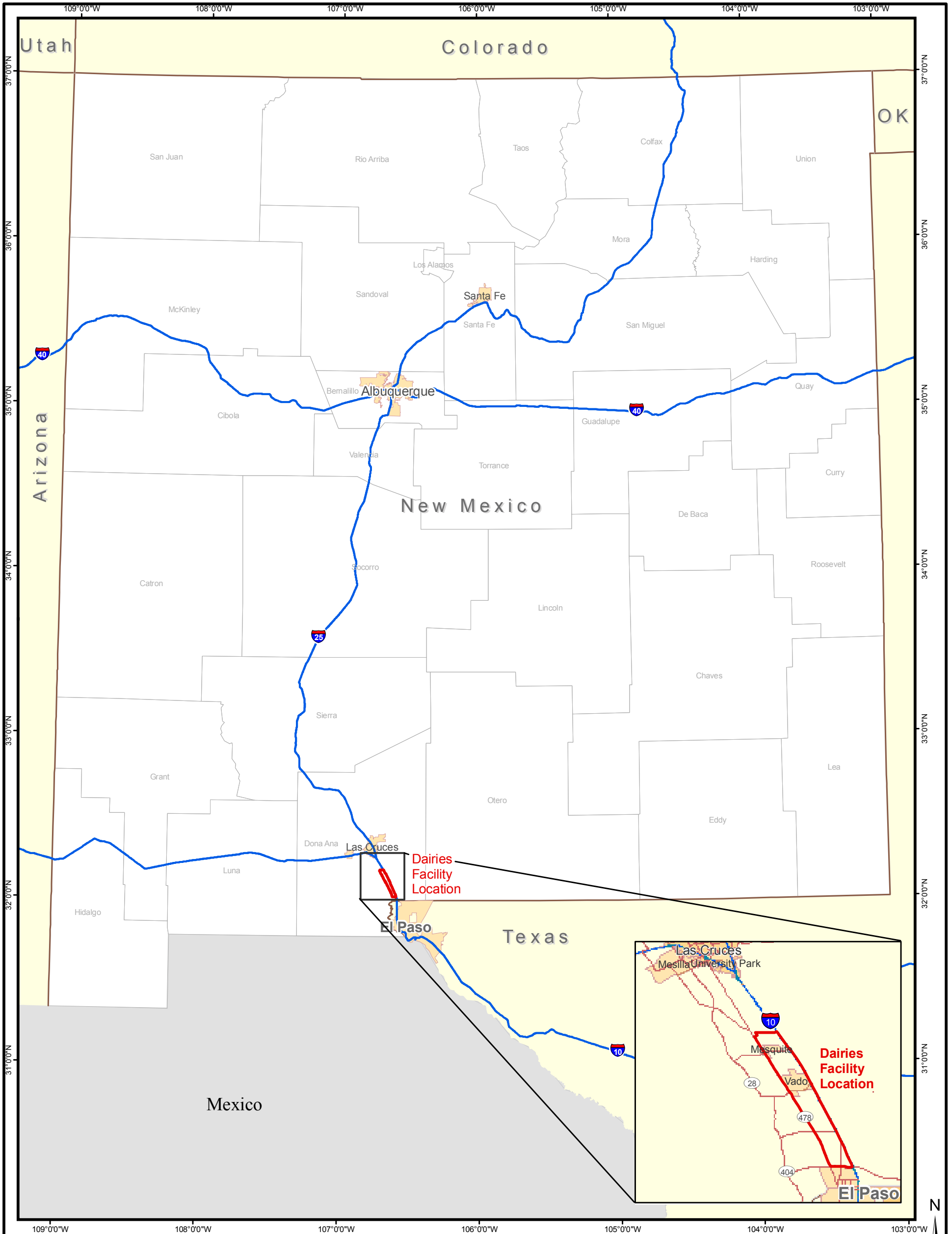
**TABLE 4. DISCHARGE PLAN MONITORING WELL GROUNDWATER ANALYTICAL RESULTS
DONA ANA DAIRIES, DONA ANA COUNTY, NEW MEXICO**

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	7-Mar-14	44.4	<1.66	581	2,290
	3-Dec-13	43.5	2.80	646	2,490
	4-Sep-13	Not Enough Water to Sample			
	23-May-13	71.3	<1.66	676	2,740
	27-Feb-13	25.2	<1.72	625	2,390
	30-Nov-12	24.3	<1.72	573	2,540
	20-Aug-12	42.1	<1.72	689	2,850
	8-May-12	39.6	<1.72	652	2,490
	17-Feb-12	30.2	<2.17	557	2,060
	31-Oct-11	22.9	<2.17	477	1,600
	29-Jul-11	25.2	<2.17	503	1,960
	22-Apr-11	98.5	<2.17	893	3,240
	19-Jan-11	148	3.22	1040	3,740
	28-Sep-10	67.0	<10.0	802	3,060
	30-Jun-10	50	<5.0	590	2,050
	30-Mar-10	28	1	600	2,012
	8-Dec-09	31	1	590	2,069
	12-Aug-09	26	1	680	2,158
4-May-09	26	1	580	2,081	
692-05	14-Mar-14	1.67	<1.66	452	1,440
	4-Dec-13	4.05	2.80	437	1,360
	4-Sep-13	2.12	4.20	446	1,480
	28-May-13	1.90	<1.66	417	1,280
	27-Feb-13	2.16	<1.72	410	1,340
	29-Nov-12	2.28	<1.72	397	1,370
	16-Aug-12	2.73	17.6	455	1,520
	7-May-12	1.92	3.08	420	1,570
	17-Feb-12	2.52	<2.17	423	1,310
	8-Nov-11	2.30	2.94	383	1,230
	1-Aug-11	<1.00	3.50	420	1,710
	26-Apr-11	<2.50	<10.0	401	1,710
	19-Jan-11	4.12	2.10	443	1,280
	1-Oct-10	3.10	<10.0	420	1,430
	30-Jun-10	2.1	<1.0	500	1,490
	30-Mar-10	1.5	1	480	1,501
	8-Dec-09	1.4	1	540	1,538
	12-Aug-09	0.8	1	500	1,602
4-May-09	1.0	1	500	1,477	
692-06	7-Mar-14	3.03	<1.66	429	1,400
	3-Dec-13	3.70	2.10	470	1,470
	4-Sep-13	3.19	2.10	423	1,540
	23-May-13	2.71	<1.66	415	1,370
	27-Feb-13	2.81	<1.72	412	1,390
	4-Dec-12	2.19	<1.72	395	1,380
	16-Aug-12	3.24	3.36	418	1,400
	8-May-12	2.62	<1.72	397	1,620
	17-Feb-12	9.39	<2.17	459	1,200
	8-Nov-11	6.46	<2.17	425	1,450
	1-Aug-11	6.07	2.80	409	1,500
	26-Apr-11	4.50	<10.0	422	1,590
	19-Jan-11	4.95	2.10	431	1,360
	1-Oct-10	11.0	<10.0	373	1,490
	30-Jun-10	7.4	<1.0	440	1,470
	30-Mar-10	3.9	1	460	1,532
	8-Dec-09	2.3	1	540	1,609
	12-Aug-09	2.8	1	440	1,555
4-May-09	2.9	1	500	1,552	

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

Monitoring Well	Date Sampled	Nitrate as N (mg/l)	TKN (mg/l)	Chloride (mg/l)	TDS (mg/l)
692-07	14-Mar-14	3.26	<1.66	544	1,580
	4-Dec-13	4.26	2.10	581	1,600
	4-Sep-13	4.17	<1.66	550	1,840
	28-May-13	3.68	<1.66	524	1,530
	27-Feb-13	3.82	<1.72	563	1,630
	30-Nov-12	4.05	<1.72	535	1,660
	16-Aug-12	5.36	3.50	549	1,780
	8-May-12	3.55	<1.72	530	1,780
	17-Feb-12	4.76	<2.17	518	1,600
	12-Nov-11	5.22	<2.17	555	780
	1-Aug-11	<1.00	2.66	567	2,000
	26-Apr-11	39.3	<10.0	694	2,520
	19-Jan-11	17.2	2.38	589	1,100
	1-Oct-10	27.0	< 10.0	617	2,300
	30-Jun-10	Not Sampled			
	30-Mar-10	42	1	820	2,967
	8-Dec-09	28	1	860	3,131
12-Aug-09	36	1	780	3,041	
4-May-09	50	1	960	3,480	
692-08	14-Mar-14	4.27	<1.66	435	1,430
	4-Dec-13	3.22	<1.66	456	1,320
	4-Sep-13	3.58	2.10	430	1,360
	28-May-13	3.49	<1.66	434	2,760
	27-Feb-13	6.27	<1.72	424	1,380
	30-Nov-12	11.70	<1.72	393	1,500
	20-Aug-12	2.98	<1.72	410	1,340
	8-May-12	1.84	<1.72	364	1,560
	17-Feb-12	3.94	<2.17	452	1,390
	8-Nov-11	2.60	2.80	436	1,340
	1-Aug-11	<1.00	<2.17	386	2,240
	26-Apr-11	3.49	<10.0	435	1,440
	19-Jan-11	3.26	<2.05	431	1,120
	1-Oct-10	5.70	<10.0	386	1,390
	30-Jun-10	3.5	<1.0	460	1,430
	30-Mar-10	3.0	1	520	1,518
	8-Dec-09	2.5	1	500	1,459
12-Aug-09	1.8	1	520	1,476	
4-May-09	2.0	1	480	1,476	
692-09	14-Mar-14	6.08	<1.66	453	1,460
	4-Dec-13	3.43	2.10	465	1,440
	4-Sep-13	8.52	3.50	452	1,460
	28-May-13	8.92	<1.66	457	1,410
	27-Feb-13	9.50	<1.72	465	1,440
	29-Nov-12	7.91	13.3	425	1,410
	20-Aug-12	7.71	<1.72	400	1,480
	7-May-12	7.80	<1.72	391	1,470
	17-Feb-12	6.89	<2.17	457	1,450
	8-Nov-11	10.6	<2.17	455	1,400
	1-Aug-11	12.6	<2.17	407	1,300
	26-Apr-11	10.8	<10.0	420	1,140
	18-Jan-11	12.0	<2.05	460	1,160
	1-Oct-10	15.0	<10.0	387	1,480
	30-Jun-10	22	<5.0	480	1,500
	30-Mar-10	11	1	520	1,606
	8-Dec-09	10	1	460	1,536
12-Aug-09	6	1	460	1,675	
4-May-09	6	1	480	1,545	
NMWQCC Standard		10	NA	250	1,000
Notes:					
Data suspect					
mg/l = milligrams per liter					
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

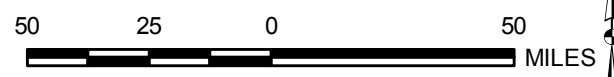


LEGEND:


 Facility Boundary

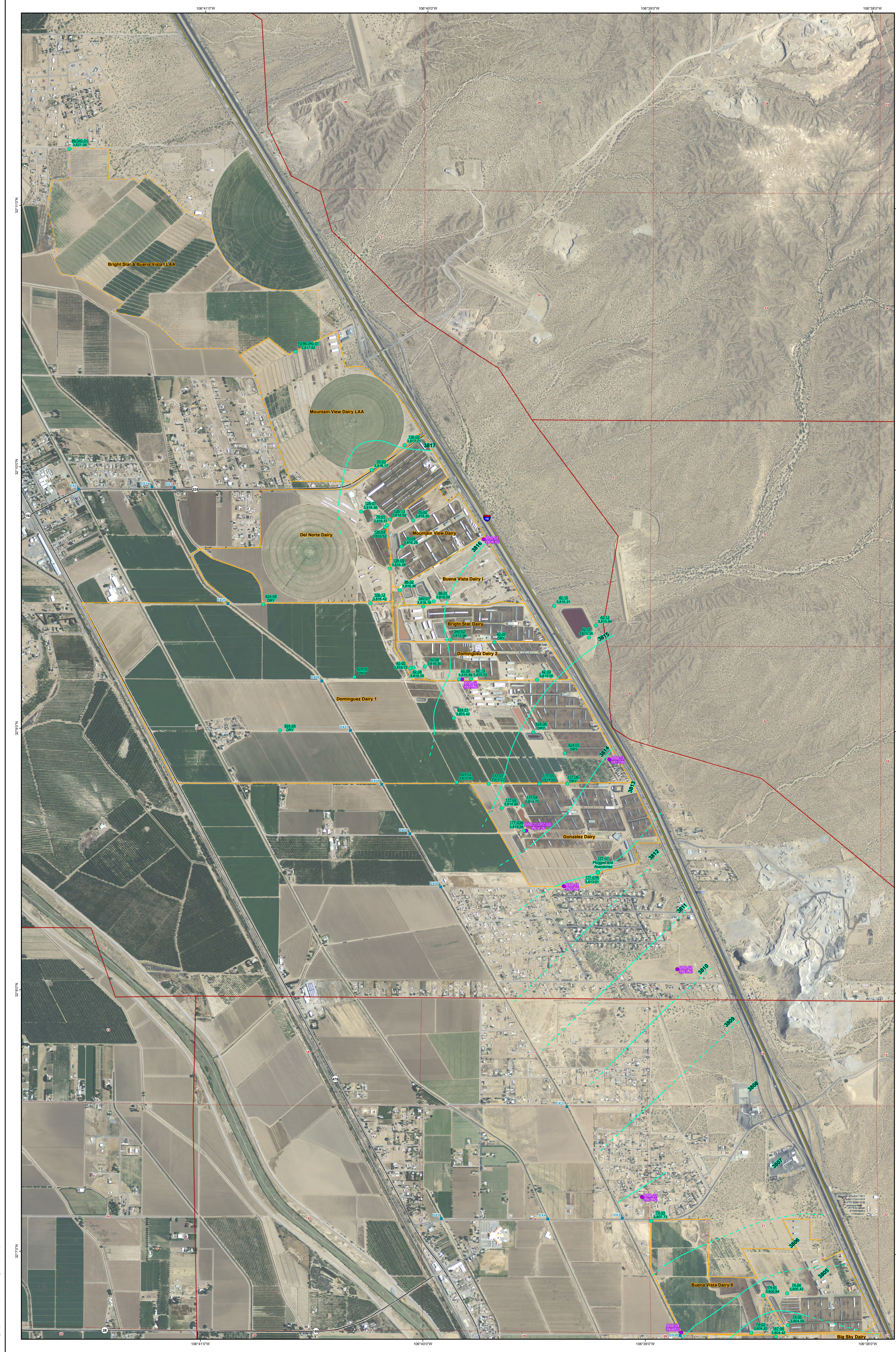
REFERENCES

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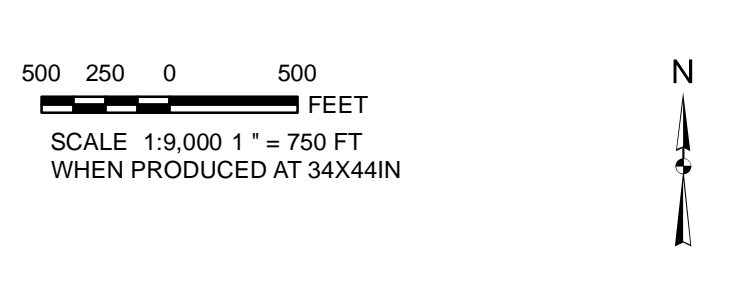
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TITLE		SITE LOCATION MAP	
	PROJECT No.	11x17_siteloc.mxd	
	DESIGN		SCALE AS SHOWN
	GIS		REV 0
	CHECK		
REVIEW		<p>FIGURE 1</p>	



- 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

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



PROJECT: DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO

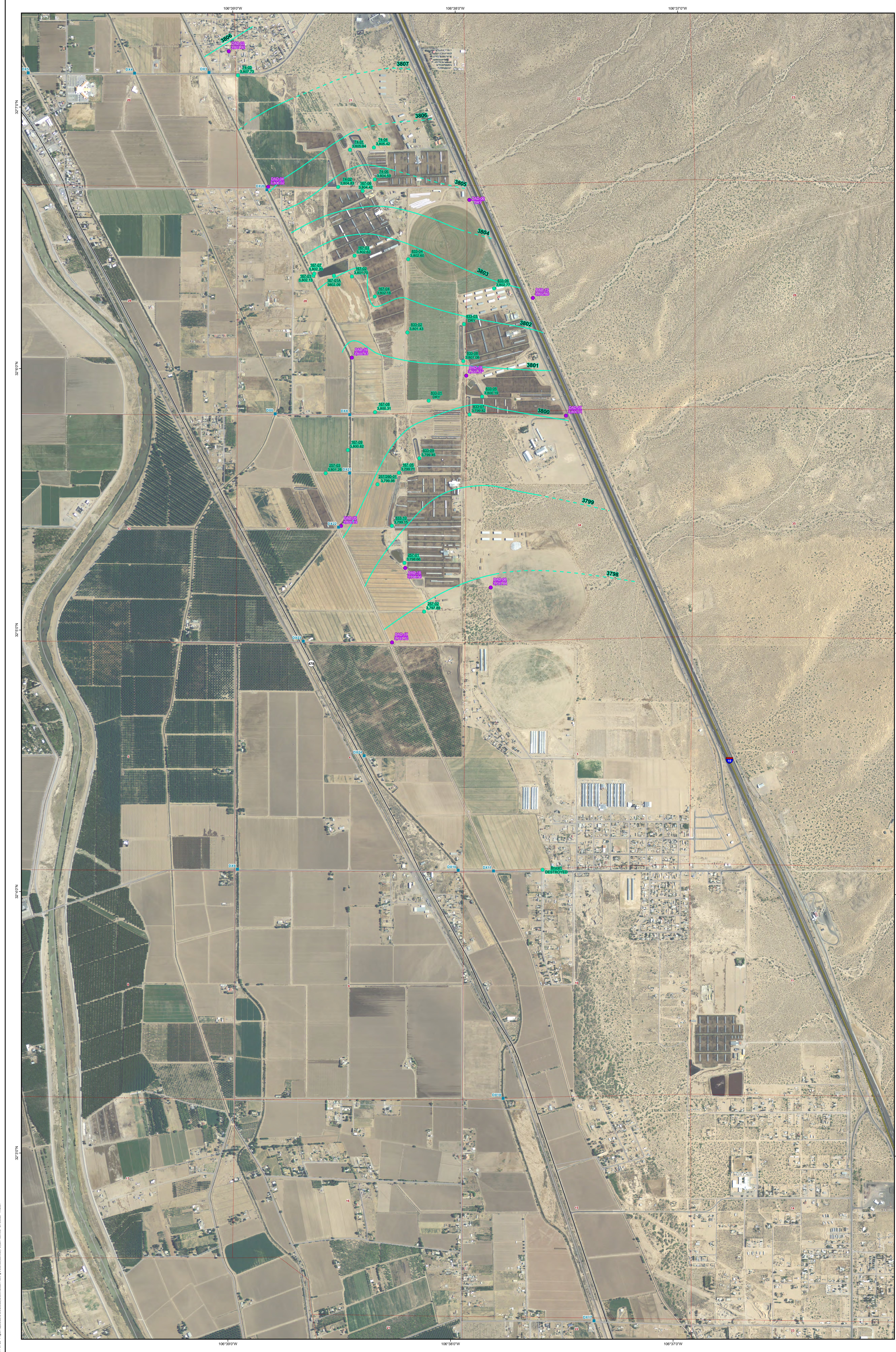
MAP: POTENTIOMETRIC SURFACE MAP,
 FEBRUARY 2014, NORTHERN PORTION

DATE	DESCRIPTION	BY	CHECKED

EA ENGINEERING ADVISORS

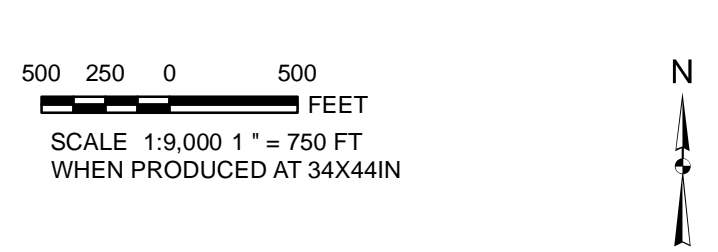
FIGURE 2

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- 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
 - Land Application on Non-Dairy Property
 - Public Land Survey System
- Note:
 * = Vertical delineation well not used in contouring

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



PROJECT: DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO

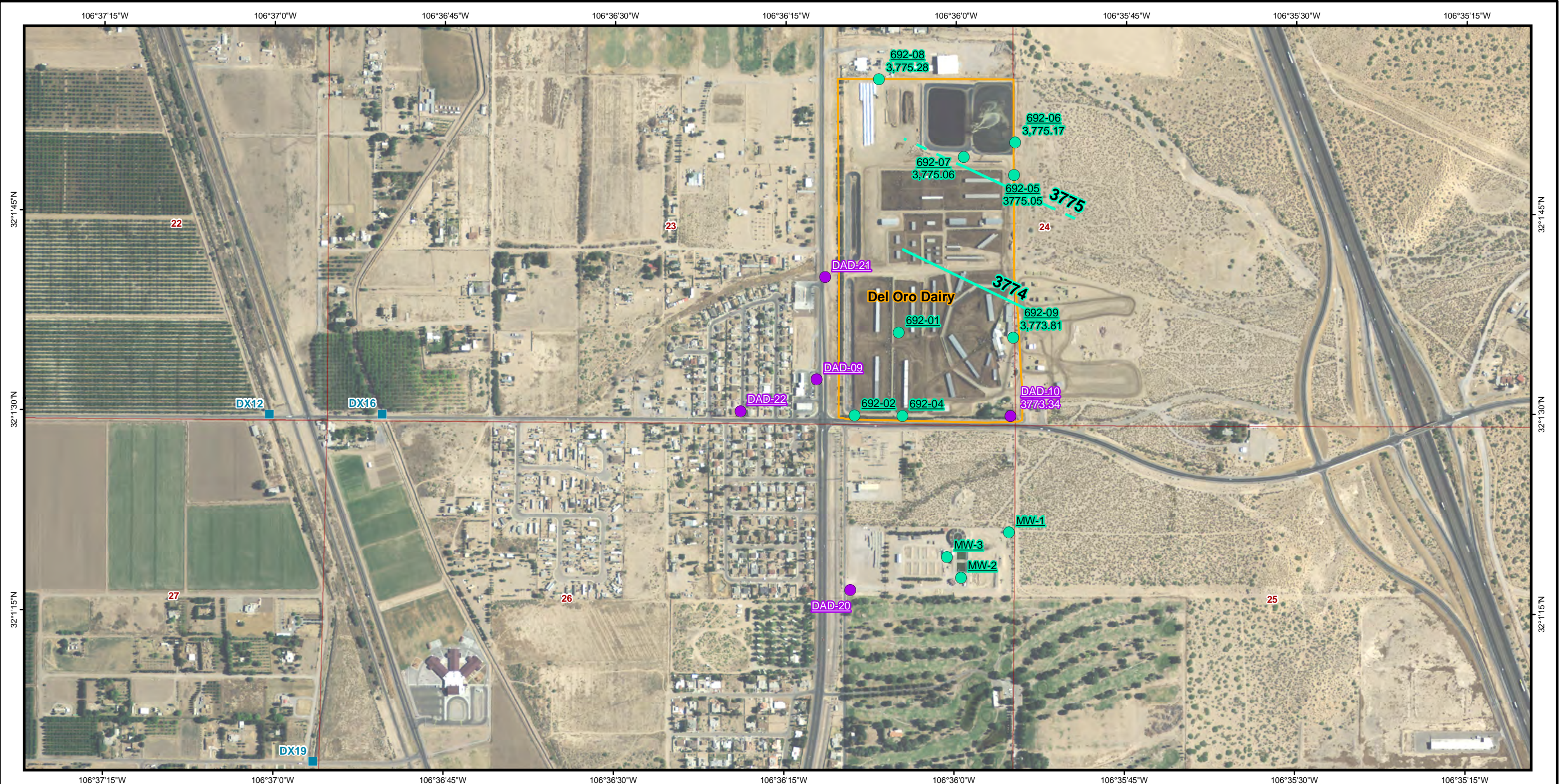
MAP: POTENTIOMETRIC SURFACE MAP,
 FEBRUARY 2014, CENTRAL PORTION

PROJECT NO.	DATE	BY	CHECKED

EA **FIGURE 3**

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2014-04-23 P:\gis\Projects\donna ana\Dallas_GIS\MapDocs\201403\Fig 4 SouthRegionAq_Pot_201403.mxd EA-Dallas mullen



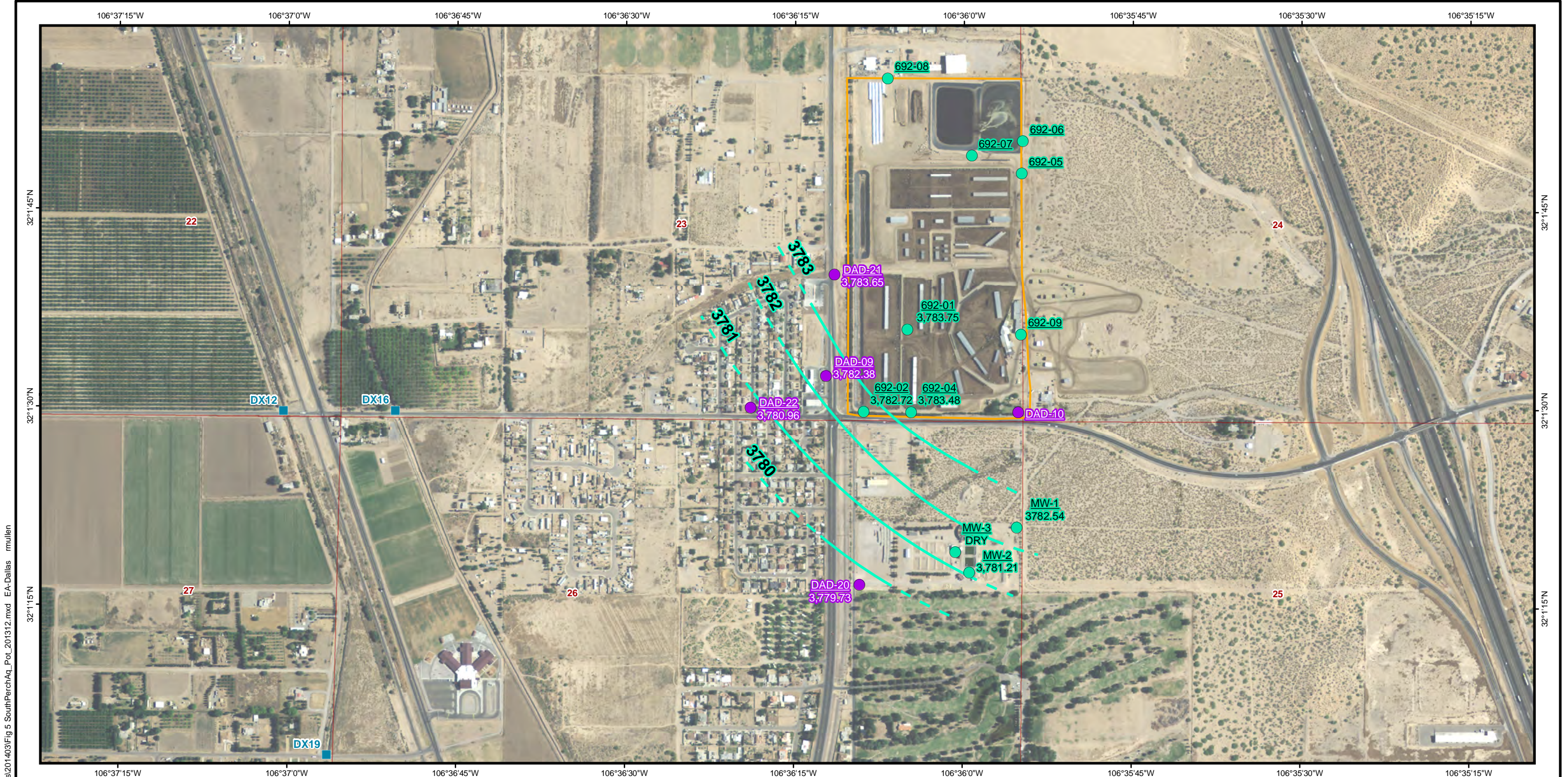
- LEGEND:**
- Drain Crossing Location
 - Discharge Plan Well with Water Elevation (Feet Above Mean Sea Level)
 - Abatement Plan Well With Water Elevations (Feet Above Mean Sea Level)
 - Potentiometric Contour
 - - - Potentiometric Contour - Assumed
 - Land Owned by Dairies
 - Public Land Survey System

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



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

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



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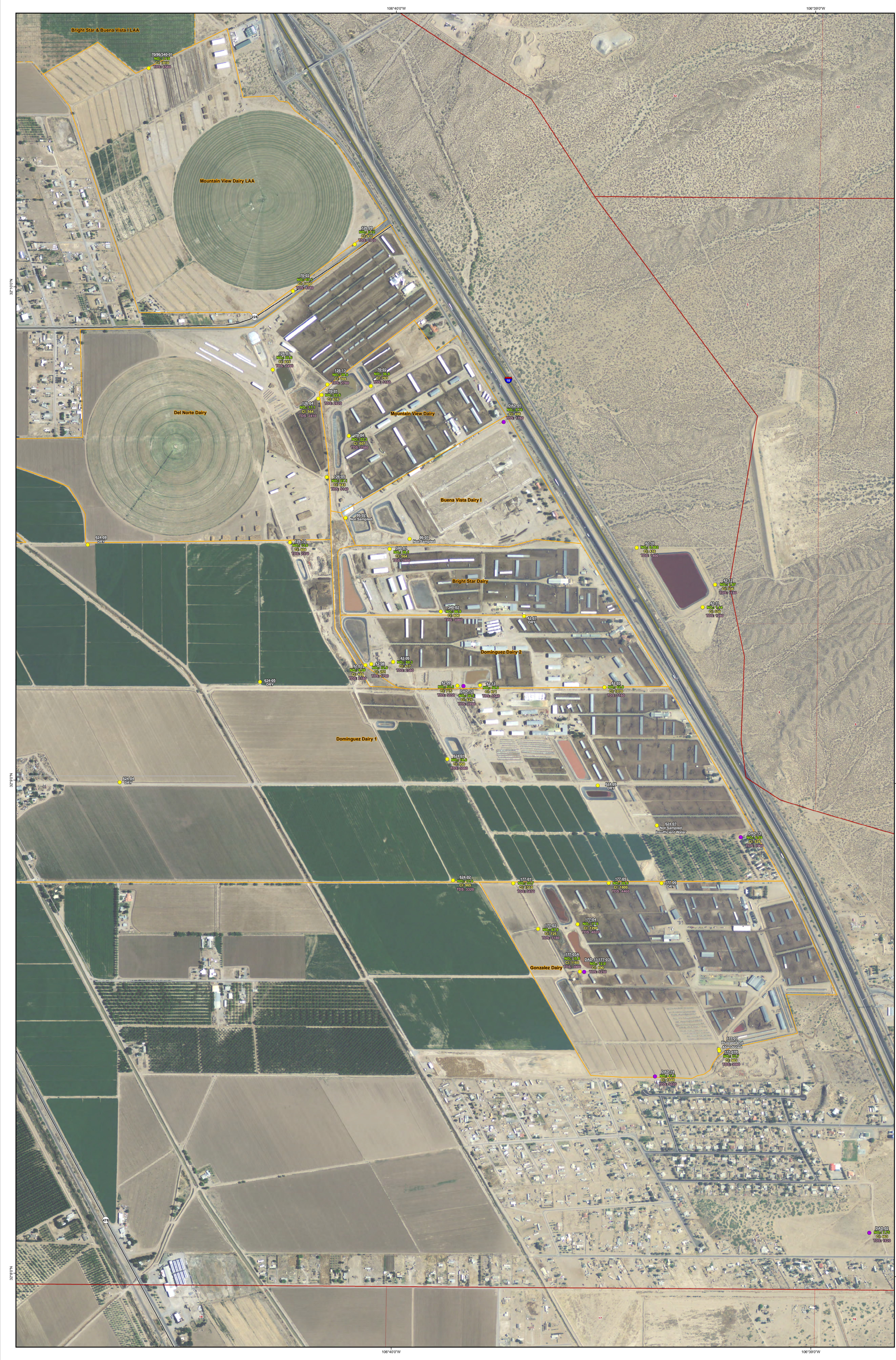
- LEGEND:**
- Drain Crossing Location
 - Discharge Plan Well With Water Elevations (Feet MSL)
 - Abatement Plan Well With Water Elevations (Feet MSL)
 - Potentiometric Contour
 - - - Potentiometric Contour - Assumed
 - Land Owned by Dairies
 - Public Land Survey System

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)

DOÑA ANA DAIRIES MESQUITE, NEW MEXICO			
POTENTIOMETRIC SURFACE MAP, FEBRUARY 2014, SOUTHERN PORTION PERCHED AQUIFER			
	PROJECT No. 1464103		Fig 5 SouthPerchAq_Pot.mxd
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REVIEW			
			FIGURE 5

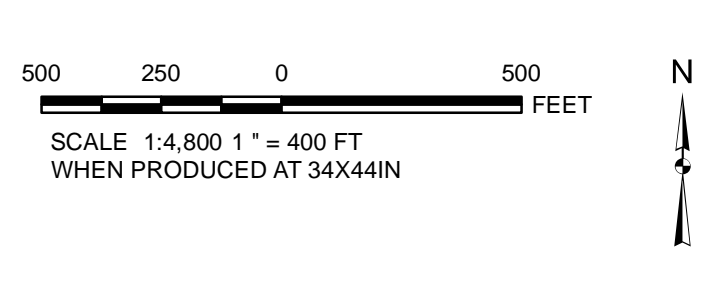


LEGEND:

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

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

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



PROJECT
**DOÑA ANA DAIRIES
MESQUITE, NEW MEXICO**

**GROUND WATER ANALYTICAL RESULTS,
FEBRUARY - MARCH 2014,
NORTHERN PORTION**

WELL	DATE	CL	NO3	TDS
624-01	2/25/14	120	10	150
624-02	2/25/14	150	15	200
624-03	2/25/14	180	20	250
624-04	2/25/14	210	25	300
624-05	2/25/14	240	30	350
624-06	2/25/14	270	35	400
624-07	2/25/14	300	40	450
624-08	2/25/14	330	45	500
624-09	2/25/14	360	50	550
624-10	2/25/14	390	55	600
624-11	2/25/14	420	60	650
624-12	2/25/14	450	65	700
624-13	2/25/14	480	70	750
624-14	2/25/14	510	75	800
624-15	2/25/14	540	80	850
624-16	2/25/14	570	85	900
624-17	2/25/14	600	90	950
624-18	2/25/14	630	95	1000
624-19	2/25/14	660	100	1050
624-20	2/25/14	690	105	1100
624-21	2/25/14	720	110	1150
624-22	2/25/14	750	115	1200
624-23	2/25/14	780	120	1250
624-24	2/25/14	810	125	1300
624-25	2/25/14	840	130	1350
624-26	2/25/14	870	135	1400
624-27	2/25/14	900	140	1450
624-28	2/25/14	930	145	1500
624-29	2/25/14	960	150	1550
624-30	2/25/14	990	155	1600
624-31	2/25/14	1020	160	1650
624-32	2/25/14	1050	165	1700
624-33	2/25/14	1080	170	1750
624-34	2/25/14	1110	175	1800
624-35	2/25/14	1140	180	1850
624-36	2/25/14	1170	185	1900
624-37	2/25/14	1200	190	1950
624-38	2/25/14	1230	195	2000
624-39	2/25/14	1260	200	2050
624-40	2/25/14	1290	205	2100
624-41	2/25/14	1320	210	2150
624-42	2/25/14	1350	215	2200
624-43	2/25/14	1380	220	2250
624-44	2/25/14	1410	225	2300
624-45	2/25/14	1440	230	2350
624-46	2/25/14	1470	235	2400
624-47	2/25/14	1500	240	2450
624-48	2/25/14	1530	245	2500
624-49	2/25/14	1560	250	2550
624-50	2/25/14	1590	255	2600
624-51	2/25/14	1620	260	2650
624-52	2/25/14	1650	265	2700
624-53	2/25/14	1680	270	2750
624-54	2/25/14	1710	275	2800
624-55	2/25/14	1740	280	2850
624-56	2/25/14	1770	285	2900
624-57	2/25/14	1800	290	2950
624-58	2/25/14	1830	295	3000
624-59	2/25/14	1860	300	3050
624-60	2/25/14	1890	305	3100
624-61	2/25/14	1920	310	3150
624-62	2/25/14	1950	315	3200
624-63	2/25/14	1980	320	3250
624-64	2/25/14	2010	325	3300
624-65	2/25/14	2040	330	3350
624-66	2/25/14	2070	335	3400
624-67	2/25/14	2100	340	3450
624-68	2/25/14	2130	345	3500
624-69	2/25/14	2160	350	3550
624-70	2/25/14	2190	355	3600
624-71	2/25/14	2220	360	3650
624-72	2/25/14	2250	365	3700
624-73	2/25/14	2280	370	3750
624-74	2/25/14	2310	375	3800
624-75	2/25/14	2340	380	3850
624-76	2/25/14	2370	385	3900
624-77	2/25/14	2400	390	3950
624-78	2/25/14	2430	395	4000
624-79	2/25/14	2460	400	4050
624-80	2/25/14	2490	405	4100
624-81	2/25/14	2520	410	4150
624-82	2/25/14	2550	415	4200
624-83	2/25/14	2580	420	4250
624-84	2/25/14	2610	425	4300
624-85	2/25/14	2640	430	4350
624-86	2/25/14	2670	435	4400
624-87	2/25/14	2700	440	4450
624-88	2/25/14	2730	445	4500
624-89	2/25/14	2760	450	4550
624-90	2/25/14	2790	455	4600
624-91	2/25/14	2820	460	4650
624-92	2/25/14	2850	465	4700
624-93	2/25/14	2880	470	4750
624-94	2/25/14	2910	475	4800
624-95	2/25/14	2940	480	4850
624-96	2/25/14	2970	485	4900
624-97	2/25/14	3000	490	4950
624-98	2/25/14	3030	495	5000
624-99	2/25/14	3060	500	5050
624-100	2/25/14	3090	505	5100



LEGEND:

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

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

REFERENCES

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

500 250 0 250
 FEET
 SCALE 1:4,800 1" = 400 FT
 WHEN PRODUCED AT 34x44IN

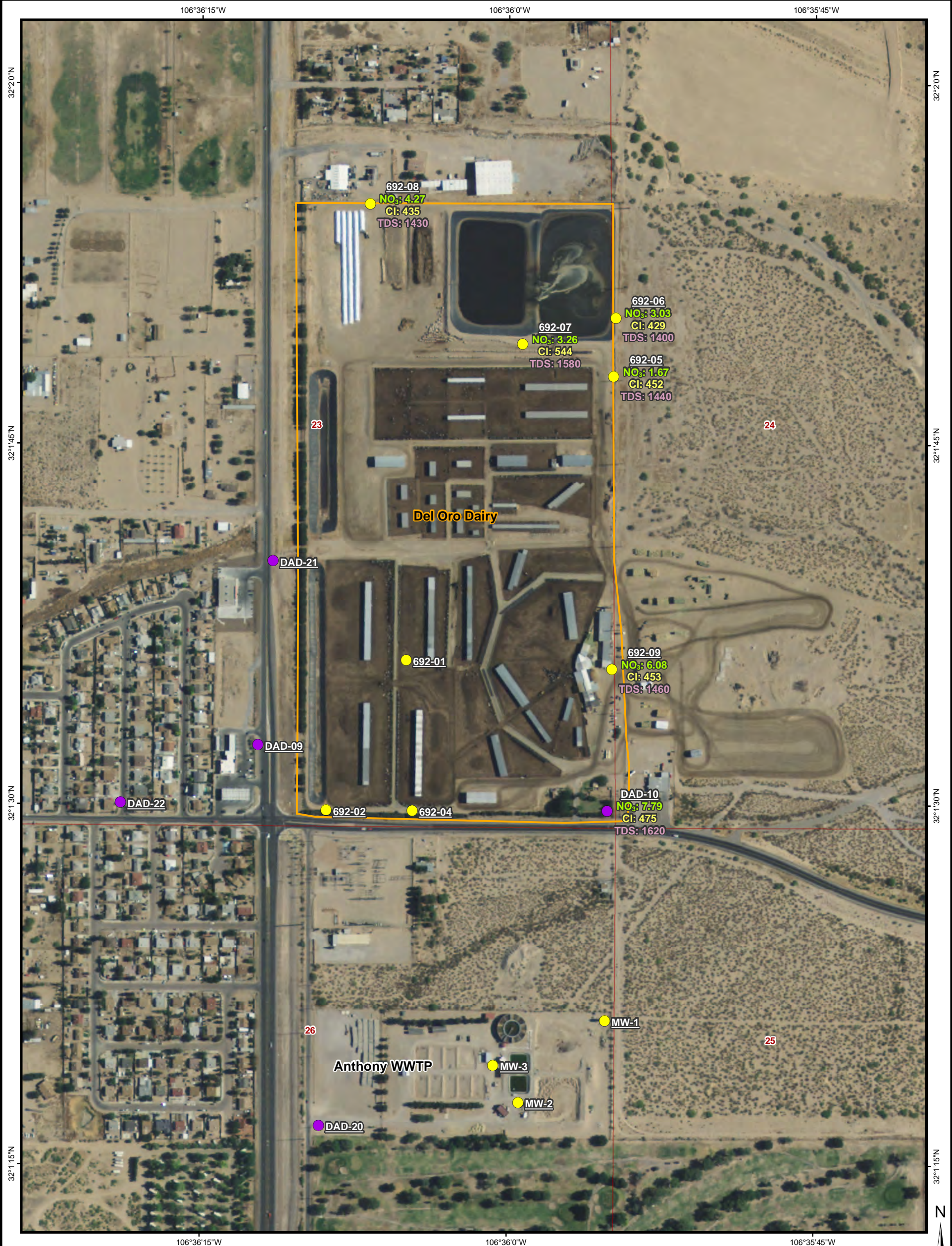
PROJECT: DOÑA ANA DAIRIES
 MESQUITE, NEW MEXICO

GROUND WATER ANALYTICAL RESULTS
 FEBRUARY - MARCH 2014,
 CENTRAL PORTION

EA

FIGURE 7

2014-02-24 10:00 AM P:\Projects\2014\2014-02-24\2014-02-24_10:00 AM_P\2014-02-24_10:00 AM_P.dwg



LEGEND:

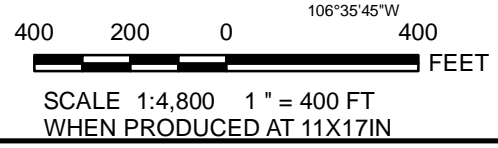
- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells
- Land Owned by Dairies
- Public Land Survey System

Notes:
Units are in milligrams per liter.

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

REFERENCES

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



PROJECT			
DOÑA ANA DAIRIES MESQUITE, NEW MEXICO			
TITLE			
GROUNDWATER ANALYTICAL RESULTS FEBRUARY - MARCH 2014, SOUTHERN PORTION, REGIONAL AQUIFER			
	PROJECT No. 1464103.0006		Fig8SouthRegionAq_Analytical.mxd
	DESIGN	NA	SCALE AS SHOWN
	GIS	RM	REV 0
	CHECK		
REVIEW			FIGURE 8



LEGEND:

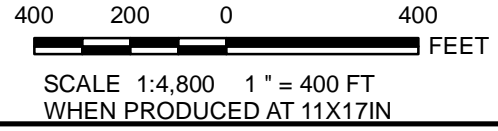
- Abatement Plan Monitoring Wells
- Discharge Plan Monitoring Wells; Anthony
- Land Owned by Dairies
- Public Land Survey System

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

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

REFERENCES

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



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

**APPENDIX A
SAMPLING FIELD FORMS**

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-01 Date Gauged 3-4-14
 Site BIG SKY Time Gauged 8:35

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water _____ feet Height of Fluid Column _____ feet
 Total Depth 36.40 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 WELL IS DRY

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-02 Date Gauged 3-5-14
 Site Big Sky Dairy Time Gauged 8:42 am
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 34.60 feet Height of Fluid Column 23.15 feet
 Total Depth 57.75 feet Volume in Well 15 gallons
 (3 Well Volumes = 45 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 3-5-14 / 9:00 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS ppm DO (mg/L)
9:19 am	5	5	18.8	4370	9.30	28	3414
9:36 am	5	10	19.9	4649	8.61	47	3651
10:20	10	20	20.9	5789	7.39	57	4639
10:51	10	30	22.8	6047	7.14	73	4845
11:25	10	40	22.9	6141	7.00	71	4935
11:41	5	45	23.3	6204	7.00	62	4981

Actual Purge Volume 45 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 11:42 / 3-5-14 Purged/Sampled By [Signature]
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations Clear water

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-03 Date Gauged 8:25
 Site BIG SKY Time Gauged 3-3-14

Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 0 feet Height of Fluid Column _____ feet
 Total Depth 62.70 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)

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 833-04 Date Gauged 3-4-14
 Site BIG Time Gauged 12:15

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 43.27 feet Height of Fluid Column 10.43 feet
 Total Depth 53.70 feet Volume in Well 6.8838 gallons

(3 Well Volumes = 20.65 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1221 3-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
1237	14	14	21.5	3600 3600	7.00	42	2793
1240	1	15	21.5	3744	7.09	44	2865
1242	1	16	20.9	3838	7.11	44	2947
1245	1	17	20.9	4189	7.09	47	3248
1248	1	18	20.8	5120	7.01	51	4053
1250	1	19	20.8	5101	7.05	49	4039
1252	1	20	20.8	5097	7.01	50	4026
1253	.75	20.75	20.8	5091	7.00	51	4022

Actual Purge Volume 20.75 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 1253 3-4-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833 05 Date Gauged 3-4-14
 Site BIG SKY Time Gauged 9:20
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 65.2 feet Height of Fluid Column 8.6 feet
 Total Depth 73.00 feet Volume in Well 5.676 gallons
 (3 Well Volumes = 17. gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:30 3-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:45		10	20.4	4997	7.26	481	3954
9:48		11	20.4	4973	7.20	503	3933
9:52		12	21.3	4891	7.15	516	3850
9:55		13	22.0	4939	7.11	521	3890
9:58		14	21.9	4930	7.07	530	3880
10:01		15	21.9	4926	7.04	526	3878
10:05		16	21.8	4921	7.0	531	3872
10:08		17	21.9	4918	7.0	534	3867

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

Time/Date Sampled 10:08 3-4-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

940

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-06 Date Gauged 3-4-14
 Site BIG SKY Time Gauged 13:00
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 75.24 feet Height of Fluid Column 9.86 feet
 Total Depth 85.1 feet Volume in Well 6.5 gallons
 (3 Well Volumes = 19.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:00 3-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:32	13	13	20.4	4556	7.17	45	3571
13:35	1	14	20.3	4394	7.16	51	3426
13:38	1	15	20.8	4369	7.12	54	3402
13:41	1	16	20.8	4431	7.10	56	3458
13:44	1	17	20.6	4450	7.08	57	3444
13:47	1	18	20.3	4459	7.04	59	3451
13:50	1	19	20.5	4450	7.04	57	3476
13:51	.5	19.5	20.4	4451	7.01	58	3468

Actual Purge Volume 19.5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 13:51 3-4-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-07 Date Gauged ~~2013~~ 3-4-14
 Site BIG SKY Time Gauged 10:20
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 60.81 feet Height of Fluid Column 12.66 feet
 Total Depth 73.47 feet Volume in Well 8.3556 gallons
 (3 Well Volumes = 25 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:30 3-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:53	18	18	21.4	6658	6.94	33	5386
10:56	1	19	21.1	6733	6.97	37	5465
11:00	1	20	21.4	6701	6.99	39	5433
11:03	1	21	20.9	6715	6.99	39	5459
11:06	1	22	20.9	6692	6.97	40	5420
11:09	1	23	20.8	6687	6.96	41	5406
11:12	1	24	20.8	6683	6.96	40	5412
11:15	1	25	20.8	6689	6.94	41	5416

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

Time/Date Sampled 11:15 3-4-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-08 Date Gauged 3-4-14
 Site BIG SKY Time Gauged 11:20
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 60.6 feet Height of Fluid Column 12.25 feet
 Total Depth 72.86 feet Volume in Well 8.085 gallons
 (3 Well Volumes = 24.255 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:25 3-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (us/cm)	pH	ORP (mV)	DO (mg/L)
11:50	18	18	21.9	4578 4578	6.99	41	3581
11:52	1	19	22.2	4307	6.98	44	3343
11:55	1	20	22.1	4547	6.98	45	3554
11:58	1	21	22.1	4572	6.96	45	3572 3572
12:02	1	22	22.2	4581	6.94	45	3568
12:05	1	23	22.1	4588	6.93	46	3577
12:07	1	24	22.1	4594	6.93	45	3583
12:08	.25	24.25	22.0	4599	6.92	44	3586

Actual Purge Volume 24.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 12:08 3-4-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 833-09 Date Gauged 3-5-14
 Site Big Sky Time Gauged 131410

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 26.92 feet Height of Fluid Column 12.44 feet
 Total Depth 39.36 feet Volume in Well 8.21 gallons
 (3 Well Volumes = 24 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1913 / 3-5-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (PPM) DO (mg/L)
1430	5	5	23.3	6823	6.76	35	5519
1442	5	10	23.2	6711	6.78	45	5430
1457	5	15	22.4	6559	6.77	48	5310
1517	5	20	21.9	6552	6.81	47	5303
1538	5	25	22.2	6519	6.76	51	5272

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

Time/Date Sampled 1538 / 3-5-14 Purged/Sampled By [Signature]

Sample Method Bailer

Requested Analyses _____

Comments/Observations Water clear

Well Casing Volumes

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 833-10 Date Gauged 3-5-14
 Site Big Sky Time Gauged 12:17
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 21.81 feet Height of Fluid Column 15.29 feet
 Total Depth 37.10 feet Volume in Well 10.10 gallons
 (3 Well Volumes = 30 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:20/3-5-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO TDS (mg/L)
12:35pm	5	5	23.8	4163	6.93	46	3216
12:52pm	5	10	21.8	4249	6.69	43	3292
1:10pm	5	15	23.9	4283	6.59	42	3315
1:28pm	5	20	22.5	4150	6.56	45	3205
1:33pm	5	25	21.0	4167	6.66	43	3212
1:50pm	5	30	22.5	4228	6.53	44	3273

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

Time/Date Sampled 1:52/3-5-14 Purged/Sampled By Heddy

Sample Method Bailer

Requested Analyses _____

Comments/Observations Water a little 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 340-01 Date Gauged 2/20/14
 Site Bright Star Dairy Time Gauged 9:29
 Depth to PSH 0 feet Well Diameter 4" inches
 Depth to Water 42.27 feet Height of Fluid Column 5.61 feet
 Total Depth 42.88 feet Volume in Well 3.70 gallons
 (3 Well Volumes = 11.10 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:34 2/20/14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:34	2	2	18.8	4505	7.59	148	3441
9:39	2	4	16.9	4976	7.54	142	3480
9:45	2	6	17.4	4472	7.56	130	3478
9:50	2	8	16.1	4448	7.51	120	3479
10:00	2	10	15.8	4440	7.48	117	3474
10:05	1	11	15.3	4437	7.44	115	3474

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

Time/Date Sampled 10:12 2/20/14 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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 340-02 Date Gauged 2/20/14
 Site Bright star Dairies Time Gauged 8:50
 Depth to PSH 0 feet Well Diameter 4" inches
 Depth to Water 53.79 feet Height of Fluid Column 2.99 feet
 Total Depth 56.78 feet Volume in Well 1.97 gallons
 (3 Well Volumes = 5.92 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:54 2/20/14 Purged Method Benton

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
8:55	1	1	20.9	8188	8.39	102	6862
8:59	1	2	21.0	8264	8.20	119	6875
9:04	1	3	20.8	8283	8.30	122	6905
9:09	1	4	20.9	5170	8.48	129	4100
9:13	1	5	21.4	5176	8.44	130	4108
9:17	1	6	21.3	5184	8.40	132	4109

Actual Purge Volume 6.0 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:20 2/20/12 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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 70/86/340-01 Date Gauged 2/18/14
 Site Bright star Time Gauged 10:45

Depth to PSH 8 feet Well Diameter 4" inches
 Depth to Water 48.56 feet Height of Fluid Column 9.11 feet
 Total Depth 67.67 feet Volume in Well 6.01 gallons
 (3 Well Volumes = 18.03 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:47 2/18/14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:50	3	3	21.3	7328	6.79	78	5985
10:55	3	6	21.4	7316	6.65	68	5994
11:00	3	9	21.3	7326	6.64	62	6018
11:05	3	12	21.6	7291	6.22	57	5975
11:10	3	15	21.6	7278	6.21	53	5962
11:15	3	18	21.4	7274	6.18	51	5955

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

Time/Date Sampled 11:20 2/18/14 Purged/Sampled By JS

Sample Method Bailer

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 86/340-01 Date Gauged 2/18/14
 Site Bright Star Denairo Time Gauged 8:45
 Depth to PSH 2 feet Well Diameter 4" inches
 Depth to Water 55.19 feet Height of Fluid Column 15.50 feet
 Total Depth 70.69 feet Volume in Well 10.23 gallons
 (3 Well Volumes = 30.69 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:25 / 2/18/14 Purged Method Baiton

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:25	5	5	23.1	4298	7.45	78	3342
9:35	5	10	21.3	3870	6.98	83	2986
9:45	5	15	20.6	3869	7.21	102	2990
9:55	5	20	20.5	3702	7.28	108	2862
10:05	5	25	20.6	3722	7.33	108	2834
10:15	5	30	20.5	3620	7.30	103	2773

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

Time/Date Sampled 10:22 / 2/18/14 Purged/Sampled By JS

Sample Method Baiton

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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 74-01 Date Gauged 3-3-14
 Site BUENA VISTA II Time Gauged 9:05
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 35.58 feet Height of Fluid Column 8.67 feet
 Total Depth 44.25 feet Volume in Well 5.72 gallons
 (3 Well Volumes = 17.1666 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:25 3-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
9:39	11	11	20.3	5193	8.50	109	4116
9:41	1	12	20.4	5084	8.24	105	4026
9:43	1	13	20.5	5093	7.49	101	4027
9:46	1	14	20.6	5041	7.38	100	3983
9:48	1	15	20.6	5033	7.32	95	3979
9:50	1	16	20.4	5024	7.31	92	3979
9:52	1	17	20.6	5019	7.23	91	3966
9:53	.25	17.25	20.4	5010	7.20	89	3955

Actual Purge Volume 17.25 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 9:53 3-3-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-02 Date Gauged 3-3-14
 Site Buena Vista II Time Gauged 10:13
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 15.6 feet Height of Fluid Column 4.7 feet
 Total Depth 20.3 feet Volume in Well 3.102 gallons
 (3 Well Volumes = 9.3 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:19 3-3-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
1024	1	3	18.4	3736	7.16	83	2885
1025	1	4	19.3	3704	7.16	90	2847
1027	1	5	19.8	3678	7.15	91	2819
1029	1	6	19.6	3665	7.15	91	2807
1031	1	7	19.7	3685	7.15	90	2836
1032	1	8	20.0	3667	7.13	90	2811
1034	1	9	20.1	3669	7.13	90	2814
1035	0.25	9.25	20.2	3672	7.12	89	2816

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

Time/Date Sampled 10:35 3-3-14 Purged/Sampled By J

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 74-03 Date Gauged 3-3-14
 Site BUENA VISTA II Time Gauged 11:01
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 15.73 feet Height of Fluid Column 4.46 feet
 Total Depth 20.19 feet Volume in Well 2.94 gallons
 (3 Well Volumes = 8.83 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:08 3-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:09	2	2	20.6	6438	6.97	87	5216
11:10	1	3	20.5	6433	6.97	87	5217
11:11	1	4	20.5	6452	6.93	90	5219
11:14	1	5	20.5	6438 6348	6.92	91	5148
11:16	1	6	20.4	6399	6.90	90	5179
11:18	1	7	20.6	6427	6.88	90	5205
11:20	1	8	20.5	6415	6.87	90	5209
11:21	1	9	20.5	6419	6.86	90	5213

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

Time/Date Sampled 11:21 3-3-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-~~010~~04 Date Gauged 3-3-14
 Site BUENA VISTA II Time Gauged 11:36
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 47.59 feet Height of Fluid Column 10.29 feet
 Total Depth 57.88 feet Volume in Well 6.7914 gallons
 (3 Well Volumes = 20.37 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:45 3-3-14 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	14	14	20.5	3398	6.92	92	2585
12:12	1	15	20.3	3348	6.94	100	2535
12:15	1	16	20.2	3338	6.95	99	2511
12:17	1	17	20.2	3330	6.96	98	2516
12:20	1	18	20.1	3326	6.94	98	2519
12:22	1	19	20.1	3320	6.96	99	2525
12:24	1	20	20.1	3313	6.98	97	2523
12:25	.5	20.5	20.0	3316	7.00	95	2530

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

Time/Date Sampled 12:25 3-3-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 74-05 Date Gauged 2-25-14

Site BUENA VISTA II Time Gauged 12:56

Depth to PSH _____ feet Well Diameter 4" inches

Depth to Water 40.76 feet Height of Fluid Column 16.13 feet

Total Depth 56.89 feet Volume in Well 10.6458 gallons

(3 Well Volumes = 31.9374 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:04 2-25-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
13:40	84	25 25	22.9	3138	6.98	57	2359
13:43	1	26 26	22.2	3091	7.06	81	2323
13:47	1	27 27	21.9	3101	7.03	86	2330
13:50	1	28 28	21.7	3091	6.98	90	2328
13:53	1	29 29	21.5	3101	6.98	89	2337
13:56	1	30 30	21.3	3102	6.94	88	2336
14:00	1	31 31	20.9	3104	6.93	88	2342
14:03	1	32 32	20.8	3105	6.91	87	2347

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

Time/Date Sampled ~~14:03~~ 14:03 2-25-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

LAB Order ID # _____

ANALYSIS REQUEST

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

Company Name: **TraceAnalysis, Inc.**
 D&H Petroleum & Environmental Services
 Address: (Street, City, Zip)
 1221 Tower Trail Ln., El Paso, Texas 79907
 Contact Person: Victor Ayala
 Invoice to (if different from above):
 Buena Vista Dairy #2, P.O. Box 346, Mesquite, NM 88048
 Project #: 435 925
 Project Name: Buena Vista Dairy #2
 Sampler Signature: JVG

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					DATE	SAMPLING TIME	
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE			
74-1		1		X				X			X				
74-1		1		X				X			X				
74-2		1		X				X			X				
74-2		1		X				X			X				
74-3		1		X				X			X				
74-3		1		X				X			X				
74-4		1		X				X			X				
74-4		1		X				X			X				
74-5		1		X				X			X			2-25-14 1403	
74-5		1		X				X			X			2/25/14 1403	
74-Lagoon		1		X				X			X				
74-Lagoon		1		X				X			X				

Reinquired By: JVG Date: 2-25-14 Time: 1435
 Received By: Denny dH Date: 2-25-14 Time: 14:35
 Reinquished By: _____ Date: _____ Time: _____
 Received at Laboratory By: _____ Date: _____ Time: _____

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

Remarks: ICE

Dry Weight Basis Required
 TRRP Report Required

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

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

Contact Person: Victor Ayala
 Invoice to (if different from above):
 Buena Vista Dairy #2, P.O. Box 346, Mesquite, NM 88048
 Project Name: Buena Vista Dairy #2
 Project #: 435925

Sampler Signature: *guy*

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

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
74-1		1		X				X		X			3-3-14	9153
74-1		1		X				X		X				953
74-2		1		X				X		X				1035
74-2		1		X				X		X				1035
74-3		1		X				X		X				1121
74-3		1		X				X		X				1121
74-4		1		X				X		X				1225
74-4		1		X				X		X				1225
74-5		1		X				X		X				
74-5		1		X				X		X				
74 Lagoon		1		X				X		X				1000
74 Lagoon		1		X				X		X				1000

Relinquished By: *guy* Date: 3-3-14 Time: 1503
 Received at Laboratory By: *[Signature]* Date: 3-3-14 Time: 1503
 Relinquished By: _____ Date: _____ Time: _____
 Received at Laboratory By: _____ Date: _____ Time: _____

ANALYSIS REQUEST

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

Remarks: _____
 Lab Use Only
 Intact ~~DLN~~
 Headspace Y/N
 Temp *2/2* ~~Review~~
 Log-in Review _____
 Dry Weight Basis Required
 TRRP Report Required

5803

TraceAnalysis, Inc.
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298
 Phone #: 915-859-8150
 Cell #: _____
 Fax #: _____
 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): Linda Armstrong 575-233-3620
Project #: 435912
Project Name: Dona Ana Dairies Consortium
Sampler Signature: *[Signature]*

Project Location (including state): Various Dairies, Dona Ana County, NM
Project Name: Dona Ana Dairies Consortium
Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
DAD-09		1		X				X				X		3-17-14	
DAD-09		1		X				X				X			
BAD-10		1		X				X				X			
BAD-10		1		X				X				X			
DAD-11		1		X				X				X		3-17-14	1132
DAD-11		1		X				X				X			1132
DAD-12		1		X				X				X			1344
DAD-12		1		X				X				X			1344
DAD-13		1		X				X				X			1204
DAD-13		1		X				X				X			1204
DAD-14		1		X				X				X			1238
DAD-14		1		X				X				X			1238
DAD-15		1		X				X				X			9:46
DAD-15		1		X				X				X			9:46
BAD-16		1		X				X				X			
BAD-16		1		X				X				X			

ANALYSIS REQUEST

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

Remarks: ICE

Relinquished By: *[Signature]* Date: 3-17-14 Time: 1435
 Relinquished By: _____ Date: _____ Time: _____

Received By: D. J. H. Date: 3-17-14 Time: 14:35
 Received at Laboratory By: _____ Date: _____ Time: _____

Lab Use Only
 Intact Y / N / NA
 Headspace Y / N / NA
 Temp 111
 Log-in Review _____

Dry Weight Basis Required _____
 TRRP Report Required _____

TraceAnalysis, Inc.

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

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

Project #: 435912
 Project Name: Dona Ana Dairies Consortium
 Project Location (including state): Various Dairies, Dona Ana County, NM
 Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
DAD-09		1		X				X						3-16-14	1224
DAD-09		1		X				X						1011	1011
DAD-10		1		X				X						0921	0921
DAD-10		1		X				X						1112	1112
DAD-19		1		X				X						1153	1153
DAD-19		1		X				X						1246	1246
DAD-20		1		X				X							
DAD-20		1		X				X							
DAD-21		1		X				X							
DAD-21		1		X				X							
DAD-22		1		X				X							
DAD-22		1		X				X							

Relinquished By: [Signature] Date: 3-18-14 Time: 1403

Received at Laboratory By: [Signature] Date: 3-18-14 Time: 1403

Relinquished By: [Signature] Date: Time:

Received at Laboratory By: [Signature] Date: Time:

Lab Use Only
 Intact N Y
 Headspace Y N
 Temp 1/2 IR-2
 Log-in Review

Remarks: 1LE

Dry Weight Basis Required
 TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-01 Date Gauged 3-10-14
 Site _____ Time Gauged 10:32
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 70.6 feet Height of Fluid Column 5.57 feet
 Total Depth 76.17 feet Volume in Well 0.9469 gallons
 (3 Well Volumes = 2.84 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:42 3-10-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:45	1	1	23.6	3675	6.80	62	2324
10:48	1	2	23.0	3143	6.68	59	2375
10:53	1	3	23.0	3134	6.58	58	2387

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

Time/Date Sampled 10:53 3-10-14 Purged/Sampled By JV

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-02 Date Gauged 3-10-14
 Site _____ Time Gauged 11:09
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 65.54 feet Height of Fluid Column 2.39 feet
 Total Depth 67.93 feet Volume in Well .4063 gallons
 (3 Well Volumes = 1.2189 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:15 3-10-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:18	1	1	23.3	2427	6.6	64	1774
11:19	.25	1.25	23.6	2498	6.74	63	1832

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

Time/Date Sampled 11:19 3-10-14 Purged/Sampled By JS

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 3-10-14
 Site _____ Time Gauged 11:40
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 12.75 feet Height of Fluid Column 11.40 ^{7.55} feet
 Total Depth 20.3 feet Volume in Well 1.2835 gallons
 (3 Well Volumes = 3.85 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:46 3-10-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:48	1	1	21.2	4724	6.54	57	3677
11:50	1	2	21.1	4653	6.71	-0	3645
11:52	1	3	21.2	4575	6.71	-123	3585
11:54	1	4	21.1	4496	6.72	-138	3514

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

Time/Date Sampled 11:54 3-10-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations WATER HAS A LOT OF DIRT.

Well Casing Volumes

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 DND-04 Date Gauged 3-10-14
 Site _____ Time Gauged 12:24
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 16.6 feet Height of Fluid Column 1.69 feet
 Total Depth ~~17.29~~ feet Volume in Well .2873 gallons
18.29 (3 Well Volumes = .8619 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:27 3-10-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
12:30	1	1	18.2	4210	6.67	-0	3297

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

Time/Date Sampled 12:30 3-10-14 Purged/Sampled By JV

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-05 Date Gauged 3-10-14
 Site _____ Time Gauged 13:45
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 16.33 feet Height of Fluid Column 7.27 feet
 Total Depth 23.6 feet Volume in Well 1.2359 gallons
 (3 Well Volumes = 3.7077 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:51 3-10-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	^{7.05} DO (mg/L)
1253	1	1	18.8	2277	6.97	1	1665
1255	1	2	18.0	2411	7.03	1	1775
1357	1	3	18.0	2629	7.00	2	1954
1358	.75	3.75	18.1	2871	6.96	4	2159

Actual Purge Volume ~~1.2359~~ ^{3.75} gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 1358 3-10-14 Purged/Sampled By JV

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD - 06 Date Gauged 3-10-14
 Site _____ Time Gauged 12:43
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water DRY 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)	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 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 DAD-07 Date Gauged 3/11/14
 Site Dona Anna Dairies Inc. Time Gauged 9:10
 Depth to PSH 0 feet Well Diameter 2 inches
 Depth to Water 91.35 feet Height of Fluid Column 9.45 feet
 Total Depth 100.8 feet Volume in Well 1.60 gallons
 (3 Well Volumes = 4.81 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:19 3/11/14 Purged Method Bailan

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:20	4.75	1	22.5	3651	8.50	94	2741
9:27	4.75	1	22.0	3689	8.79	96	2781
9:34	4.75	1	21.9	3699	8.54	97	2788
9:42	4.75	1	21.4	3701	8.50	99	2794
9:50	4.75	75	20.9	3703	8.49	101	2796

Actual Purge Volume 4.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 9:53 3/11/14 Purged/Sampled By JF

Sample Method Bailan

Requested Analyses _____

Comments/Observations Cloudy

Well Casing Volumes

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 3/11/14
 Site Dona Ana District Time Gauged 10:13
 Depth to PSH 2 feet Well Diameter 2 inches
 Depth to Water 51.34 feet Height of Fluid Column 3.67 feet
 Total Depth 53.01 feet Volume in Well 0.62 gallons
 (3 Well Volumes = 1.86 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:15 3/11/14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
10:16	1.75	1	19.2	8901	7.24	102	7301
10:22	1.75	1	18.9	8831	7.20	99	7299
10:28	1.75	1	18.8	8830	7.18	97	7310
10:34	1.75	75	18.5	8829	7.17	98	7312

Actual Purge Volume 1.75 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 10:37 3/11/14 Purged/Sampled By [Signature]
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations Cloudy & Sandy

Well Casing Volumes
 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 3-18-14
 Site _____ Time Gauged 12:08
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 56.91 feet Height of Fluid Column 4.94 feet
 Total Depth 61.85 feet Volume in Well 0.8398 gallons
 (3 Well Volumes = 2.51 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:15 3-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:20	1	1	22.3	2526	6.89	31	1859
12:22	1	2	21.9	2417	6.87	45	1772
12:24	.5	2.5	22.0	2394	7.05	533	1760

Actual Purge Volume 2.5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 12:24 3-18-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations SILTY 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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-10 Date Gauged 3-18-14
 Site _____ Time Gauged 9:40
 Depth to PSH _____ feet Well Diameter 3" inches
 Depth to Water 81.8 feet Height of Fluid Column 12.6 feet
 Total Depth 94.4 feet Volume in Well 2.142 gallons
 (3 Well Volumes = 6.426 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:50 3-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:53	1	1	20.6	2360	7.01	83	1736
9:57	1	2	21.0	2379	6.99	85	1741
10:01	1	3	21.2	2392	6.91	86	1754
10:03	1	4	20.8	2409	6.93	87	1767
10:06	1	5	20.7	2422	6.94	91	1786
10:10	1	6	20.8	2431	6.91	93	1794
10:11	.5	6.5	21.0	2447	6.92	90	1802
				2443			

Actual Purge Volume 6.5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 10:11 3-18-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-11 Date Gauged 3-17-14
 Site _____ Time Gauged 10:05
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 21.77 feet Height of Fluid Column 25.63 feet
 Total Depth 47.4 feet Volume in Well 16,915.8 gallons
 (3 Well Volumes = 50.74 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:12 3-17-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:17	44	44	22.4	4846	6.88	20	3808
11:20	1	45	22.4	4861	6.88	17	3821
11:22	1	46	22.8	4845	6.77	12	3805
11:24	1	47	22.0	4837	6.82	8	3821
11:26	1	48	22.7	4945	6.77	6	3885
11:28	1	49	21.8	5008	6.82	0	3947
11:31	1	50	21.7	586	6.74	3	3960
11:32	0.75	50.75	21.4	5024	6.73	2	3966

Actual Purge Volume 50.75 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:32 3-17-14 Purged/Sampled By Ji

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-12 Date Gauged 3-17-14
 Site _____ Time Gauged 13:00
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 531 feet Height of Fluid Column 281 feet
 Total Depth 79.41 feet Volume in Well 4.777 gallons
 (3 Well Volumes = 14.331 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 305 3-17-14 Purged Method Ball

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	^{TDS} DO (mg/L)
1328	0	0	23.7	4367	7.04	31	3088
1331	1	9	22.7	4359	6.94	37	3384
1333	1	10	22.4	4346	6.85	34	3374
1336	1	11	22.5	4334	6.80	34	3369
1339	1	12	22.5	4316	6.79	33	3350
1341	1	13	22.4	4335	6.78	29	3362
1343	1	14	22.4	4324	6.79	29	3358
1344	.5	14.5	22.2	4329	6.81	31	3351

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

Time/Date Sampled 1344 3-17-14 Purged/Sampled By JV

Sample Method Ball

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes
 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 DD-13 Date Gauged 3-17-14
 Site _____ Time Gauged 11:43
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 85.85 feet Height of Fluid Column 6.15 feet
 Total Depth 92 feet Volume in Well 1.0455 gallons
 (3 Well Volumes = 3.13 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:49 3-17-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:53	1	1	23.7	3204	6.86	23	2410
11:58	1	2	23.9	3171	6.84	18	2379
12:02	1	3	22.9	3163	6.90	17	2382
12:04	.25	3.25	23.9	3144	6.82	20	2361

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

Time/Date Sampled 12:04 3-17-14 Purged/Sampled By JV

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-14 Date Gauged 3-17-14
 Site _____ Time Gauged 1216
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 29.34 feet Height of Fluid Column 13.26 feet
 Total Depth 42.5 feet Volume in Well 2.2542 gallons
 (3 Well Volumes = 6.7626 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1222 3-17-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
12:25	1	1	20.4	5402	6.95	24	4303
12:27	1	2	20.7	5496	7.06	26	4392
12:30	1	3	20.5	5556	7.03	28	4438
12:32	1	4	20.4	5574	7.04	29	4454
12:34	1	5	20.3	5565	7.05	30	4444
12:36	1	6	20.0	5575	7.05	28	4463
12:38	0.75	6.75	19.8	5588	7.04	29	4472

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

Time/Date Sampled 12:38 3-17-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-15 Date Gauged 3-17-14
 Site _____ Time Gauged 9:00
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 95.15 feet Height of Fluid Column 14.45 feet
 Total Depth 109.6 feet Volume in Well 2.4565 gallons
 (3 Well Volumes = 7.36 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:13 3-17-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:20	1	1	21.6	2825	7.41	57	2113
9:25	1	2	21.3	2814	7.29	14	2100
9:29	1	3	22.2	2808	7.23	14 504	2091
9:33	1	4	21.8	2824	7.17	-0	2107
9:37	1	5	21.7	2858	7.13	-0	2137
9:40	1	6	21.7	2862	7.10	-0	2145
9:44	1	7	21.5	2869	7.07	-0	2148
9:46	.50	7.50	21.6	2876	7.05	-0	2152

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

Time/Date Sampled 9:46 3-17-14 Purged/Sampled By N

Sample Method _____

Requested Analyses _____

Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-16 Date Gauged 3-10-14
 Site _____ Time Gauged 12:55
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 18.81 feet Height of Fluid Column 13.99 feet
 Total Depth 32.8 feet Volume in Well 2.3783 gallons
 (3 Well Volumes = 7.1349 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:00 3-10-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:01	1	1	19.3	3542	7.00	499	2703
13:03	1	2	19.3	3525	6.93	500	2695
13:05	1	3	19.0	3533	6.91	498	2705
13:07	1	4	19.2	3562	6.75	507	2728
13:09	1	5	19.2	3560	6.78	507	2717
13:11	1	6	18.9	3580	6.76	509	2746
13:13	1	7	18.4	3625	6.73	512	2783
13:14	.25	7.25	18.4	3616	6.77	511	2774

Actual Purge Volume 7.25 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 13:14 3-10-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-17 Date Gauged 3/11/14
 Site Donna ~~Ann~~ Durkin Time Gauged 13:05
 Depth to PSH 2 feet Well Diameter 2 inches
 Depth to Water 20.08 feet Height of Fluid Column 18.31 feet
 Total Depth 38.39 feet Volume in Well 3.11 gallons
 (3 Well Volumes = 9.33 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:09 3/11/14 Purged Method Bailin

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
13:10	9.25	2	20.8	2198	6.97	68	1586
13:24	9.25	2	21.3	2259	7.02	70	1589
13:39	9.25	2	20.9	2264	6.98	78	1596
13:57	9.25	2	20.2	2269	6.96	74	1601
14:09	9.25	1.25	20.1	2271	6.94	76	1604

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

Time/Date Sampled 14:12 3/11/14 Purged/Sampled By *[Signature]*

Sample Method Bailin

Requested Analyses

Comments/Observations

Well Casing Volumes

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 3/11/14
 Site Donna Ann Daniels Time Gauged 10:55
 Depth to PSH 2 feet Well Diameter 2 inches
 Depth to Water 20.08 feet Height of Fluid Column 36.83 feet
 Total Depth 56.91 feet Volume in Well 6.26 gallons
 (3 Well Volumes = 18.78 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:00 3/11/14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:00	18.75	3	20.2	4567	7.02	90	3631
11:12	18.75	3	19.9	4559	6.94	89	3619
11:24	18.75	3	19.8	4561	6.90	84	3599
11:36	18.75	3	19.2	4551	6.88	87	3594
11:48	18.75	3	18.9	4549	6.86	85	3581
12:00	18.75	3	18.9	4550	6.84	84	3574
12:08	18.75	1.75	18.6	4549	6.82	82	3573

Actual Purge Volume 18.75 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:12 3/11/14 Purged/Sampled By [Signature]

Sample Method Bailer

Requested Analyses

Comments/Observations Clear

Well Casing Volumes
 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-19 Date Gauged 3-18-14
 Site _____ Time Gauged 8:30
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 64.4 feet Height of Fluid Column 34.82 feet
 Total Depth 99.22 feet Volume in Well 5.9194 gallons
 (3 Well Volumes = 17.75 gallons)

20

GROUNDWATER SAMPLING DATA

Time/date Purged 8:35 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:02	11	11	20.5	5140	8.70	71	4077
9:05	1	12	20.5	5034	6.81	84	3980
9:08	1	13	20.3	5032	6.87	81	3959
9:11	1	14	20.4	5027	6.89	82	3955
9:15	1	15	20.2	5009	6.93	83	3951
9:17	1	16	20.0	5000	6.94	84	3952
9:19	1	17	19.9	4994	6.95	83	3956
9:21	.75	17.75	20.0	4986	6.96	85	3947

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

Time/Date Sampled 9:21 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 3-18-17
 Site _____ Time Gauged 10:40
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 53.76 feet Height of Fluid Column 15.20 feet
 Total Depth 69.02 feet Volume in Well 2.5942 gallons
 (3 Well Volumes = 7.7826 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:50 3-18-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:53		1	22.5	3721	6.72	87	2839
10:56		2	22.0	3743	6.86	87	2864
11:00		3	22.1	3759	6.91	88	2789
11:03		4	22.0	3689	6.85	91	2818
11:06		5	22.0	3586	6.86	88	2731
11:08		6	21.8	3592	6.88	87	2752
11:10		7	22.1	35 3571	6.94	81	2720
11:12		7.75	22.3	3544	6.85	88	2700

Actual Purge Volume 7.75 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 11:12 3-18-14 Purged/Sampled By JV
 Sample Method Bail
 Requested Analyses _____
 Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-21 Date Gauged 3-18-14
 Site _____ Time Gauged 11:22
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 56.21 feet Height of Fluid Column 13.64 feet
 Total Depth 69.85 feet Volume in Well 2.3188 gallons
 (3 Well Volumes = 6.95 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:32 3-18-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:35	1	1	21.7	3352	6.84	86	2538
11:38	1	2	21.0	3343	6.71	83	2535
11:41	1	3	20.9	3336	6.68	82	2535
11:44	1	4	20.5	3352	6.65	82	2539
11:48	1	5	20.4	3348	6.64	83	2541
11:51	1	6	20.4	3341	6.61	81	2536
11:53	1	7	20.4	3337	6.60	82	2534

Actual Purge Volume 7 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 11:53 3-18-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID DAD-22 Date Gauged 3-18-14
 Site _____ Time Gauged 12:35
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 46.39 feet Height of Fluid Column 3.61 feet
 Total Depth 50.0 feet Volume in Well .6137 gallons
 (3 Well Volumes = 1.84 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1245 3-18-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
<u>1248</u>		<u>1</u>	<u>23.7</u>	<u>3911</u>	<u>8.06</u>	<u>-122</u>	<u>2994</u>
		<u>2</u>					

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 1248 3-18-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations COULD ONLY PULL 1 GALLON OF WATER.

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-01 Date Gauged 3-13-14
 Site Del Oro Time Gauged 2:40 pm
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 60.42 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 1454 / 3-13-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
1454	5	5	23.6	3817	6.55	108	3229
1457	5	10	22.9	3833	6.46	103	3243
1458	5	15	22.3	3859	6.41	105	3266
1502	5	20	22.1	3856	6.41	100	3277
1505	5	25	21.9	3852	6.62	91	3278

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

Time/Date Sampled 1505 / 3-13-14 Purged/Sampled By [Signature]

Sample Method Pump (well)

Requested Analyses _____

Comments/Observations Water clear.

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-02 Date Gauged 3-7-14
 Site Del Oro Time Gauged 9:22
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 58.22 feet Height of Fluid Column 8.68 feet
 Total Depth 66.90 feet Volume in Well 5 gallons
 (3 Well Volumes = 15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:26 / 3-7-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (PPM) DO (mg/L)
9:40	5	5	21.0	5318	6.65	86	4225
9:53	5	10	20.9	5383	6.50	82	4263
10:17	5	15	18.3	5310	6.10	76	4237

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 10:19 / 3-7-14 Purged/Sampled By [Signature]
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations Water clear

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-04 Date Gauged 3-7-14
 Site Del Oro Time Gauged 10:34
 Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 59.05 feet Height of Fluid Column 1.49 feet
 Total Depth 60.54 feet Volume in Well .98 gallons
 (3 Well Volumes = 2.95 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:45 / 3-7-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (ppm) DO (mg/L)
10:49	1	1	20.4	3478	6.23	72	2649
11:28	1	2	19.7	3524	6.63	102	2694
11:55	1	3	18.9	3560	6.12	96	2720

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

Time/Date Sampled 12:08 / 3-7-14 Purged/Sampled By [Signature]

Sample Method Bailer

Requested Analyses _____

Comments/Observations Water tan in color. Slow process to extract the 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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-05 Date Gauged 3-14-14
 Site Del Oro Time Gauged 11:29

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 79.18 feet Height of Fluid Column _____ feet
 Total Depth _____ feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:38 / 3-14-14 Purged Method Well Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDScppm DO (mg/L)
11:43	5	5	23.1	2171	7.03	162	1765
12:07	5	10	26.2	2110	6.98	148	1706

Actual Purge Volume 10 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 12:12 / 3-14-14 Purged/Sampled By [Signature]
 Sample Method Well pump
 Requested Analyses _____
 Comments/Observations Water light brown

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 692-06 Date Gauged 3-7-14
 Site Del Oro Time Gauged 7:30

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 81.26 feet Height of Fluid Column 10.79 feet
 Total Depth 92.05 feet Volume in Well 7.12 gallons
 (3 Well Volumes = 21 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:34 / 3-7-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
7:52	5	5	19.5	3727	7.44	63	2866
8:04	5	10	20.3	2341	7.14	78	1714
8:15	5	15	19.4	2293	7.06	80	1681
8:25	5	20	18.5	2263	6.95	86	1655

Actual Purge Volume 20 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 8:25 / 3-7-14 Purged/Sampled By [Signature]
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations Water cloudy

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-07 Date Gauged 3-14-14
 Site Del Oro Time Gauged 9:41

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 73.20 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:42/3-14-14 Purged Method Well Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:44	5	5	18.9	2321	7.04	178	1900
10:07	5 1	5 6	17.2	2294	7.04	194	1888
	5	5 15					
	5	5 20					
	5	5 25					

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

Time/Date Sampled 10:18/3-14-14 Purged/Sampled By [Signature]

Sample Method Well Pump

Requested Analyses _____

Comments/Observations Clear water Very slow return water into well

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-08 Date Gauged 3-14-14
 Site Del Oro Time Gauged 10:32

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 67.81 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:39 / 3-14-14 Purged Method Well pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS _{scpm} DO (mg/L)
10:41	5	5	20.4	20.11	6.88	103	1624
10:57	5	10	20.8	2003	6.83	107	1617
11:13	5	15	21.0	2014	7.15	144	1627

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

Time/Date Sampled 11:16 / 3-14-14 Purged/Sampled By [Signature]

Sample Method Well Pump

Requested Analyses _____

Comments/Observations Clear water slow water return

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

MONITOR WELL SAMPLING FIELD FORM

FLUID LEVEL DATA

Well ID 692-09 Date Gauged 3-14-14

Site Del Oro Time Gauged _____

Depth to PSH _____ feet Well Diameter 4 inches

Depth to Water 82.82 feet Height of Fluid Column Pump feet

Total Depth Pump feet Volume in Well _____ gallons

(3 Well Volumes = 25 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:09 / 3-14-14

Purged Method Well Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (ppm) DO (mg/L)
9:10	5	5	21.0	2140	7.14	118	1736
9:12	5	10	21.4	2082	7.07	115	1684
9:13	5	15	21.9	2060	7.00	102	1679
9:17	5	20	21.7	2068	6.93	112	1681
9:20	5	25	21.8	2066	6.93	115	1674

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

Time/Date Sampled 9:21 / 3-14-14 Purged/Sampled By [Signature]

Sample Method Well Pump

Requested Analyses _____

Comments/Observations clear 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

TraceAnalysis, Inc.
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

Paso, TX 79932
 Tel (915) 885-3443
 Fax (915) 885-4944

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST


LAB Order ID # _____

Company Name: _____
 D&H Petroleum & Environmental Services
 Address: (Street, City, Zip)
 1221 Tower Trail Ln, El Paso TX 79907
 Contact Person: _____
 Victor Ayala
 Invoice to (if different from above):
 Del Oro Dairy, PO Box 1846, Anthony, TX 88021
 Project #: 435923
 Project Name: Del Oro Dairy
 Sampler Signature: 

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

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling					
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME		
692-01		1		X				X				X					
692-01		1		X				X				X					
692-02		1		X				X				X				3-7-14	10:19
692-02		1		X				X				X				3-7-14	10:19
692-04		1		X				X				X				3-7-14	12:08
692-04		1		X				X				X				3-7-14	12:08
692-05		1		X				X				X					
692-05		1		X				X				X					
692-06		1		X				X				X				3-7-14	8:25
692-06		1		X				X				X				3-7-14	8:25
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					
692-09		1		X				X				X					

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

Relinquished By:  Date: 3-7-14 Time: 12:45
 Received at Laboratory By: MRC TAEP Date: 3-7-14 Time: 12:45
 Relinquished By: MRC TAEP Date: 3-7-14 Time: 14:30

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

Remarks: _____

Dry Weight Basis Required
 TRRP Report Required

TraceAnalysis, Inc.
 100 Woodward Street, Suite 111
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

Company Name: TraceAnalysis, Inc.
 Phone #: 915-859-8150
 Cell #:
 Fax #:
 E-mail: vajala@dhpump.com

D&H Petroleum & Environmental Services
 Address: (Street, City, Zip)
 1221 Tower Trail Ln, El Paso TX 79907
 Contact Person: Victor Ayala

Project Name: Del Oro Dairy
 Jerry Settles 575-882-4331

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

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
357828	692-01	1	250ml	X				X				X		3-13-14	15:05
	692-01	1	250ml	X				X				X		3-13-14	15:05
	692-02	1		X				X				X			
	692-02	1		X				X				X			
	692-04	1		X				X				X			
	692-04	1		X				X				X			
	692-05	1		X				X				X			
	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			

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 NORG C	X
Phosphorus SM 4500	
Turn Around Time	

Relinquished By: [Signature] Date: 3-13-14 Time: 16:03
 Received By: D. J. [Signature] Date: 3-13-14 Time: 16:03

Lab Use Only
 Intact (Y) N
 Headspace Y / N
 Temp 16.1 / 4/4
 Log-in Review [Signature]

Remarks:

Relinquished By: [Signature] Date: 3-13-14 Time: 16:03
 Received at Laboratory By: [Signature] Date: 3-13-14 Time: 16:03

Dry Weight Basis Required
 TRRP Report Required

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

TraceAnalysis, Inc.

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

Company Name: _____

D&H Petroleum & Environmental Services

Address: (Street, City, Zip)

1221 Tower Trail Ln, El Paso TX 79907

Contact Person: _____

Victor Ayala

Invoice to (if different from above): _____

Del Oro Dairy, PO Box 1846, Anthony, TX 88021

Project #: _____

Project Name: _____

Del Oro Dairy

Project Location (including state): _____

Del Oro Dairy, 1025 East O'Hara, Anthony, NM

Sampler Signature: _____

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	Turn Around Time	Hold		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH					ICE	NONE
692-01		1		X				X			X						
692-01		1		X				X			X						
692-02		1		X				X			X						
692-02		1		X				X			X						
692-04		1		X				X			X						
692-04		1		X				X			X						
692-05		1		X				X			X		3-14-14	12:12			
692-05		1		X				X			X		3-14-14	12:12			
692-06		1		X				X			X						
692-06		1		X				X			X						
692-07		1		X				X			X		3-14-14	10:18			
692-07		1		X				X			X		3-14-14	16:18			
692-08		1		X				X			X		3-14-14	11:16			
692-08		1		X				X			X		3-14-14	11:16			
692-09		1		X				X			X		3-14-14	9:21			
692-09		1		X				X			X		3-14-14	9:21			

ANALYSIS REQUEST

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

Lab Order ID # _____

Lab Use Only

Received By: _____

Date: _____

Time: _____

Relinquished By: _____

Remarks: ON ICE
Carry In -
TKN analysis in dubbook.

Intact Y / N
Headspace Y / N
Temp 22 / 12

Date: 3-14-14

Date: 3-14-14

Time: 12:13

Time: 12:13

Received at Laboratory By: _____

Relinquished By: _____

Dry Weight Basis Required
TRRP Report Required

Log-in Review

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-06 Date Gauged 2-25-14

Site DOMINGUEZ Time Gauged 9:36

Depth to PSH 0 feet Well Diameter 4" inches

Depth to Water 0 feet Height of Fluid Column _____ feet

Total Depth 52.23 feet Volume in Well _____ gallons

(3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged _____ Purged Method _____

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

DRY

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-01 Date Gauged 2-25-14

Site DAMINGUEL 1 Time Gauged 10:00

Depth to PSH _____ feet Well Diameter 4" inches

Depth to Water ~~28.0~~ 28.0 feet Height of Fluid Column 18.7 feet

Total Depth 46.7 feet Volume in Well 12.34 gallons

(3 Well Volumes = 31 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:00 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:36	30	30	21.8	5106	8.94	98	4023
10:39	1	31	21.1	4952	7.24	105	3900
10:42	1	32	21.1	4951	7.19	100	3903
10:45	1	33	21.2	4948	7.17	95	3902
10:49	1	34	21.0	4945	7.16	91	3900
10:51	1	35	21.0	4947	7.16	88	3897
10:56	1	36	20.9	4944	7.13	86	3894
10:59	1	37	21.0	4941	7.10	85	3896

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

Time/Date Sampled 10:59 2-25-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-02 Date Gauged 11:10 2-25-14
 Site Concrete Dominguez Time Gauged 11:10
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 20.13 feet Height of Fluid Column 17.29 feet
 Total Depth 37.42 feet Volume in Well 11.414 gallons
 (3 Well Volumes = 34.23 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:17 2-25-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:55	28	28	21.7	5213	7.05	70	4131
11:58	1	29	20.9	5226	7.00	71	4130
12:02	1	30	20.7	5193	6.97	70	4114
12:05	1	31	20.3	5205	6.93	70	4129
12:07	1	32	20.6	5198	6.89	68	4119
12:09	1	33	20.0	5191	6.92	65	4117
12:12	3 1	34	20.0	5188	6.87	66	4116
12:13	.25	34.25	19.7	5187	6.86	65	4113

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

Time/Date Sampled 12:13 2-25-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-05 Date Gauged 2-25-14
 Site Dominguez Time Gauged 12:22
 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)

DRY

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-08 Date Gauged 2-25-14
 Site DOMINGUEZ Time Gauged 12:30

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 0 feet Height of Fluid Column _____ feet
 Total Depth 19.4 feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged _____ Purged Method _____

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

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-04 Date Gauged 2-25-14
 Site DIMINGUEZ Time Gauged 12:39

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water _____ 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 _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 624-07 Date Gauged 2-26-14
 Site DOMINGUEZ Time Gauged 8:55
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water ~~55.7~~ 55.57 feet Height of Fluid Column .13 feet
 Total Depth 55.7 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 COULD NOT PULL SAMPLE, NOT ENOUGH WATER.
USED PENCIL BAILEY

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-02 Date Gauged 2-26-14
 Site DOMINGUEZ II Time Gauged 10:51
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 27.05 feet Height of Fluid Column _____ feet
 Total Depth PUMP feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:00 2-26-14 Purged Method PUMP

Time	Purge Vol (gal)	Cumul. Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:01	1	1	15.5	3458	7.21	518	3652
11:03	1	2	18.6	3785	7.13	526	2932
11:05	1	3	19.5	3798	7.07	527	2933
11:07	1	4	19.7	3783	7.06	528	2943
11:08	1	5	20.4	3793	7.06	523	2938

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 11:08 2-26-14 Purged/Sampled By JV
 Sample Method PUMP
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID ~~42-03~~ 42-03 Date Gauged 2-26-14
 Site DOMINGUEZ II Time Gauged 9:25
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 33.61 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:30 2-26-14 Purged Method BATE Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
9:33	3	3	21.1	6307	8.63	91	5097
9:35	1	4	21.3	5674	8.41	97	4533
9:37	1	5	23.2	5653	8.42	100	4506
9:38	1	6	22.1	5685	8.18	100	4529
9:39	1	7	23.7	5667	7.34	104	4515
9:40	1	8	23.7	5664	7.29	103	4515
9:41	1	9	24.4	5622	7.23	97	4479
9:42	1	10	24.5	5672	7.19	89	4516

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

Time/Date Sampled 9:42 2-26-14 Purged/Sampled By JV

Sample Method BATE Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-06 Date Gauged 2-26-14
 Site DOMINGUEZ II Time Gauged 10:26
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 33.94 feet Height of Fluid Column _____ feet
 Total Depth PUMP feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:29 Purged Method PUMP

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:30	1	1	16.5	3696	7.04	492	2848
10:32	1	2	20.3	3613	7.13	491	2777
10:33	1	3	20.7	3603	7.16	488	2754
10:35	1	4	21.2	3613	7.13	488	2759
10:37	1	5	21.3	3622	7.13	-0	2769

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

Time/Date Sampled 10:37 2-26-14 Purged/Sampled By JV

Sample Method PUMP 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 42-07 Date Gauged 2-26-14
 Site DOMINGUEZ Time Gauged 12:12

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

GROUNDWATER SAMPLING DATA

Time/date Purged _____ Purged Method _____

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

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-08 Date Gauged 2-26-14
 Site DOMINGUEZ II Time Gauged 11:23

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 30.5 feet Height of Fluid Column _____ feet
 Total Depth PUMP feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:30 2-26-14 Purged Method PUMP

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:33	1	1	20.6	2391	7.10	533	1758
11:36	1	2	20.8	2303	7.22	528	1684
11:39	1	3	21.3	2411	7.19	530	1766
11:42	1	4	21.1	2484	7.18	524	1828
		5					

Actual Purge Volume 4 gals Field Measurements stabilized within ± 10% -
 Time/Date Sampled 11:42 2-26-14 Purged/Sampled By JV
 Sample Method PUMP
 Requested Analyses _____
 Comments/Observations WATER WAS SLOW TO PUMP AT
4 GALLONS.

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-09 Date Gauged 2-26-14
 Site DOMINGUEZ II Time Gauged 9:53

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 49.45 feet Height of Fluid Column _____ feet
 Total Depth PUMP feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:59 2-26-14 Purged Method BATC PUMP

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
10:04	3	3	17.9	4789	6.91	113	3789
10:06	1	4	17.4	4762	7.07	121	3762
10:08	1	5	22.0	4993	7.03	- 0	3932
10:10	1	6	22.0	4955	7.02	0	3916
10:11	1	7	21.0	4899	6.99	0	3853
	1	8					
	1	9					
	1	10					

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

Time/Date Sampled 10:11 2-26-14 Purged/Sampled By SW

Sample Method PUMP

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-10 Date Gauged 2-26-14
 Site DAMINGBOX # Time Gauged 12:56

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 114.12 feet Height of Fluid Column _____ feet
 Total Depth Pump feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1259 2-26-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
1300	1	1	22.3	2318	6.95	129	1683
1301	1	2	25.2	2313	7.07	133	1686
1302	1	3	26.8	2381	7.00	130	1736
1303	1	4	27.2	2353	7.02	112	1708
1304	1	5	27.5	2336	6.99	106	1693
1305	1	6	27.8	2332	7.00	98	1688
1306							

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

Time/Date Sampled 1306 2-26-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-11 Date Gauged ~~12-20~~ 2-26-14
 Site Downwell II Time Gauged 2 12:20

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 127.32 feet Height of Fluid Column _____ feet
 Total Depth _____ feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:24 2-26-14 Purged Method Pump

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:25	1	1	24.5	2230	7.11	98	1618
12:26	1	2	26.0	2068	7.13	112	1489
12:27	1	3	27.3	2004	7.13	-0	1437
12:28	1	4	28.1	1906	7.16	-0	1356
12:29	1	5	28.2	1911	7.17	483	1355
	1						

Actual Purge Volume 5 gals Field Measurements stabilized within ± 10% -
 Time/Date Sampled 12:29 2-26-14 Purged/Sampled By JV
 Sample Method PUMP
 Requested Analyses _____
 Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-12 Date Gauged 2-26-14
 Site DOMINGUEZ II Time Gauged 1235

Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 130.11 feet Height of Fluid Column _____ feet
 Total Depth _____ feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:40 Purged Method PUMP

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
12:41	1	1	24.9	2027	6.96	90	1456
12:42	1 1	2	25.3	1982	7.01	492	1414
12:43	1 1	3	26.2	1970	7.05	494	1405
12:44	1 1	4	27.5	1983	7.13	498	1410
12:45	1 1	5	28.7	1988	7.09	507	1416

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

Time/Date Sampled 12:45 2-26-14 Purged/Sampled By JV

Sample Method Pump

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 42-13 Date Gauged ~~002/2014~~ 2-26-14
 Site _____ Time Gauged 12:00
 Depth to PSH _____ feet Well Diameter _____ inches
 Depth to Water 56.19 feet Height of Fluid Column _____ feet
 Total Depth PUMP feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 12:02 ²⁶2-26-14 Purged Method PUMP

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
<u>12:04</u>	<u>1</u>	<u>1</u>	<u>21.6</u>	<u>5192</u>	<u>6.98</u>	<u>21</u>	<u>4116</u>
	<u>1</u>	<u>2</u>					
	<u>1</u>	<u>3</u>					
	<u>1</u>	<u>4</u>					
	<u>1</u>	<u>5</u>					

Actual Purge Volume 1 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 12:05 2-26-14 Purged/Sampled By JV
 Sample Method PUMP
 Requested Analyses _____
 Comments/Observations NO WATER CAME OUT PAST 1 Gallon

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

TraceAnalysis, Inc.

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

Phone #: 915-859-8150
Cell #:
Fax #:
E-mail: 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 #: 435914
Project Name: Dominguez Dairy #2
Sampler Signature: *JUV*

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		Turn Around Time	
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICF	NONE		DATE
42-2		1		X				X				2-26-14	1108	
42-2		1		X				X					1108	
42-3		1		X				X					942	
42-3		1		X				X					942	
42-6		1		X				X					1037	
42-6		1		X				X					1637	
42-7		1		X				X						
42-7		1		X				X						
42-8		1		X				X					1142	
42-8		1		X				X					1142	
42-9		1		X				X					1011	
42-9		1		X				X					1011	
42-10		1		X				X					1306	
42-10		1		X				X					1306	
42-11		1		X				X					1229	
42-11		1		X				X					1229	

LAB Order ID # _____

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ANALYSIS REQUEST

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

Received By: *JUV* Date: 2-26-14 Time: 13:45
 Received at Laboratory By: *URC TAED* Date: 2-26-14 Time: 13:45
 Relinquished By: *JUV* Date: 2-26-14 Time: 13:45
 Relinquished By: *JUV* Date: 2-26-14 Time: 13:45

Remarks: *on ice*
TKN analysis in subsed

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

Dry Weight Basis Required
 TRRP Report Required

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-01 Date Gauged 2/21/14
 Site Gonzales Drivers Time Gauged 10:22
 Depth to PSH 8 feet Well Diameter 4.11 inches
 Depth to Water 19.08 feet Height of Fluid Column 6.30 feet
 Total Depth 25.38 feet Volume in Well 4.15 gallons
 (3 Well Volumes = 12.47 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:28 2/21/14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:30	2	2	20.1	6250	8.04	38	5081
10:36	2	4	19.9	6248	8.00	47	5065
10:43	2	6	19.6	6251	7.83	46	5053
10:49	2	8	18.1	6240	7.44	49	5049
10:53	2	10	17.9	6236	7.41	50	5044
10:59	2	12	17.8	6233	7.41	53	5040

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

Time/Date Sampled 11:02 2/21/14 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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-02 Date Gauged 2/21/14
 Site GONZALEZ DARRIZ Time Gauged 11:58
 Depth to PSH 0 feet Well Diameter 4" inches
 Depth to Water 19.77 feet Height of Fluid Column 5.65 feet
 Total Depth 25.42 feet Volume in Well 3.72 gallons
 (3 Well Volumes = 11.18 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:12 2/21/14 Purged Method Bail/oz

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:13	2	2	19.6	4689	7.21	64	3679
11:18	2	4	20.1	4692	7.25	67	3680
11:23	2	6	19.9	4695	7.22	68	3684
11:29	2	8	19.7	4698	7.24	69	3687
11:34	2	10	19.4	4704	7.21	70	3690
11:38	1	11	19.2	4707	7.22	72	3689

Actual Purge Volume 11.0 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 11:40 2/21/14 Purged/Sampled By [Signature]

Sample Method Bail/oz

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-~~1044~~ 07 Date Gauged 2-24-14
 Site PONZALEZ Time Gauged 12:55
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 45.95 feet Height of Fluid Column ~~7.75~~ 8.35 feet
 Total Depth 54.3 feet Volume in Well 5.511 gallons
 (3 Well Volumes = ~~16.533~~ 16.533 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:00 2-24-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:34	10	10	21.6	4861	6.90	122	3825
13:37	1	11	21.2	4844	6.93	117	3809
13:40	1	12	21.0	4857	6.90	117	3821
13:43	1	13	21.1	4851	6.91	112	3803
13:46	1	14	20.7	4861	6.93	116	3811
1350	1	15	20.6	4864	6.92	113	3808
1353	1	16	20.5	4868	6.90	111	3802
1354	1	16.5	20.5	4866	6.91	109	3799

Actual Purge Volume 16.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 13:54 2-24-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-06 Date Gauged 2-24-14
 Site Gonzalez Time Gauged 1250

Depth to PSH 0 feet Well Diameter _____ inches
 Depth to Water 0 feet Height of Fluid Column _____ feet
 Total Depth 51.9 feet Volume in Well _____ gallons
 (3 Well Volumes = _____ gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged _____ Purged Method _____

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

DRY

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

Time/Date Sampled _____ Purged/Sampled By _____

Sample Method _____

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-05 Date Gauged 2-24-14
 Site GONZALEZ Time Gauged 11:44
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 37.55 feet Height of Fluid Column 11.45 feet
 Total Depth 49.0 feet Volume in Well _____ gallons
 (3 Well Volumes = 34.35 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:50 2-24-14 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	27	27	20.2	7246	6.91	103	5944
12:34	1	28	20.3	6930	6.89	108	5645
12:36	1	29	20.3	6763	6.86	110	5454
12:39	1	30	20.4	6622	6.87	111	5377
12:41	1	31	20.4	6615	6.82	114	5369
12:43	1	32	20.3	6598	6.79	111	5362
12:45	1	33	20.3	6594	6.77	108	5358
12:46	.50	34.50	20.2	6603	6.76	106	5354

Actual Purge Volume 34.50 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 12:46 2-24-14 Purged/Sampled By AI

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 177-04 Date Gauged 2-24-14
 Site Gonzalez Time Gauged 10:14
 Depth to PSH 0 feet Well Diameter 4" inches
 Depth to Water 24.72 feet Height of Fluid Column 21.62 feet
 Total Depth 46.34 feet Volume in Well 14.24 gallons
 (3 Well Volumes = 42 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:23 2-24-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:17	35	35	20.7	6268	6.83	86	5061
11:20	1	36	20.4	6264	6.84	87	5058
11:22	1	37	20.3	6307	6.84	92	5101
11:25	1	38	20.7	6245	6.82	92	5044
11:28	1	39	20.4	6290	6.82	89	5086
11:30	1	40	20.4	6254	6.79	91	5053
11:33	1	41	20.2	6255	6.81	89	5055
11:36	1	42	20.3	6247	6.79	91	5045

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

Time/Date Sampled 11:36 2-24-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID Gonzalez 177-03A Date Gauged 2-24-14
 Site GONZALEZ Time Gauged 9:31

Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 21.46 feet Height of Fluid Column 14 feet
 Total Depth 35.46 feet Volume in Well 2.38 gallons
 (3 Well Volumes = 7.14 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:42 2-24-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
9:45	1	1	23.8	3151	8.94	50	2368
9:47	1	2	23.9	5735	8.02	41	4577
9:49	1	3	23.9	5953	7.32	36	4767
9:51	1	4	23.7	5975	7.22	35	4794
9:53	1	5	23.6	5973	7.12	36	4794
9:56	1	6	23.4	5962	7.01	37	4772
9:59	1	7	24.0	5974	6.95	37	4797
10:00	.25	7.25	24.0	5774	6.91	34	4791

Actual Purge Volume 7.25 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:00 2-24-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 70-04 Date Gauged 2-19-14
 Site MOUNTAIN VIEW Time Gauged 13:10
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 33.54 feet Height of Fluid Column 14.24 feet
 Total Depth 47.78 feet Volume in Well ~~7.25~~ gallons
 (3 Well Volumes = 7.25 gallons) 2.4208

GROUNDWATER SAMPLING DATA

Time/date Purged 13:13 2-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:16	1	1	24.0	4186	7.15	2	3224
13:19	1	2	23.3	4139	7.03	9	3173
13:23	1	3	22.7	4147	6.90	14	3187
13:27	1	4	22.7	4153		18	3191
13:31	1	5	22.5	4158		23	3195
13:34	1	6	22.6	4161		26	3199
13:37	1	7	22.5	4163		28	4004
13:39	.25	7.25	22.5	4164		32	4006

Actual Purge Volume 7.25 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 13:39 2-19-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 70-02 Date Gauged 2-19-14
 Site MOUNTAIN VIEW Time Gauged 10:40
 Depth to PSH _____ feet Well Diameter 4" inches
 Depth to Water 44.78 feet Height of Fluid Column 4.72 feet
 Total Depth 49.5 feet Volume in Well 3.152 gallons
 (3 Well Volumes = 9.34 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:52 2-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	DO (mg/L)
11:00	3	3	26.1	5067	6.59	46	4051
11:02	1	4	24.6	5034	6.61	40	3954
11:05	1	5	24.2	5051	6.61	38	3981
11:07	1	6	23.7	5054	6.59	36	3988
11:10	1	7	23.6	5058	6.60	33	3993
11:12	1	8	23.4	5060	6.61	33	3995
11:14	1	9	23.5	5064	6.61	31	3999
11:15	.5	9.5	23.5	5066	6.60	29	4063

Actual Purge Volume 9.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 11:15 2-19-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 70-01 Date Gauged 2-19-14
 Site MOUNTAIN View Time Gauged 9:35
 Depth to PSH 0 feet Well Diameter 4" inches
 Depth to Water 35.33 feet Height of Fluid Column 10.27 feet
 Total Depth 45.6 feet Volume in Well 6.7782 gallons
 (3 Well Volumes = 20.33 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:40 2-19-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:17	14	14	22.5	4243	6.01	2	3287
10:19	1	15	21.9	4151	6.08	1	3204
10:22	1	16	21.8	4156	6.06	2	3214
10:24	1	17	21.8	4093	5.97	2	3161
10:27	1	18	21.8	4130	5.95	6	3191
10:29	1	19	21.7	4142	5.91	10	3199
10:31	1	20	21.8	4149	5.88	11	3203
10:32	5	20.5	21.7	4153	5.87	10	3201

Actual Purge Volume 20.5 gals Field Measurements stabilized within ± 10%

Time/Date Sampled 10:32 2-19-14 Purged/Sampled By B JV

Sample Method bail

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 70-03 Date Gauged 2-19-14
 Site Mountain View Time Gauged 8:15
 Depth to PSH 0 feet Well Diameter 4" inches
 Depth to Water 55.27 feet Height of Fluid Column 5.98 feet
 Total Depth 61.25 feet Volume in Well 3.9468 gallons
 (3 Well Volumes = 11.84 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 8:30 2-19-14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
8:46	5	5	20.4	10.60	6.64	50	9128
8:49	1	6	20.3	11.53	6.56	50	10.01
8:51	1	7	20.0	10.84	6.51	48	9342
8:53	1	8	19.6	11.04	6.17	44	9538
8:54	1	9	20.0	11.77	6.03	45	10.23
8:59	1	10	20.1	11.52	6.00	44	9993
9:01	1	11	20.1	11.47	5.96	41	9984
9:03	1	12	20.1	11.42	5.91	40	9977

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

Time/Date Sampled 9:03 2-19-14 Purged/Sampled By JV

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

TraceAnalysis, Inc.
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

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

D&H Petroleum & Environmental Services
 Address: (Street, City, Zip)
 1221 Tower Trail Ln., El Paso, Texas 79907
 E-mail: vayala@dhpump.com

Contact Person: _____
 Victor Ayala

Invoice to (if different from above):
 Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048
 John DeRuyter 575-233-3899

Project #: 435921
 Project Name: Mountain View Dairy
 Sampler Signature: *JMB*

Project Location (including state):
 Mountain View Dairy, 13090 Stern Drive, Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
	South Stormwater Lagoon	1		X				X		X				2-19-14	11:30
	South Stormwater Lagoon	1		X				X		X					
	South Stormwater Lagoon	1		X					X						
	South Stormwater Lagoon	1		X				X							

LAB USE ONLY	MTBE 8021B/602	BTEX 8021B/602	TPH 418.1 / TX1005	TX 1005 Extended (C35)	PAH 8270C	PAH 8270 (Low Level Analysis)	Phosphorus SM 4500	Nitrates EPA 300	Total 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
								X		X	X	X	X		

ANALYSIS REQUEST

Relinquished By: *JMB* Date: 2-19-14 Time: 15:45
 Received at Laboratory By: *JMB* Date: 2-18-14 Time: 14:45

Lab Use Only
 Intact / N
 Headspace Y / N
 Temp 11°C
 Log-in Review _____

Remarks: *By JMB*
 Dry Weight Basis Required
 TRRP Report Required

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # _____

ANALYSIS REQUEST

MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
Nitrate as Nitrogen EPA 300.0	X
Salinity	
EC	
pH	
Carbonates	
SAR	
Potassium	
Phosphorus SM 4500	
Total Nitrogen	
Total Kjeldhal Nitrogen SM 4500 NORG C	X
Turn Around Time	
Hold	

Remarks: _____

Lab Use Only

Intact Y / N

Headspace Y / N

Temp 4/4 / C

Log-in Review _____

Dry Weight Basis Required

TRRP Report Required

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

Invoice to (if different from above): John DeRuyter 575-233-3899

Mountain View Dairy, P.O. Box 345, Mesquite, NM 88048

Project #: Mountain View Dairy

Project Location (including state): Mountain View Dairy, 13090 Stern Drive, Mesquite, NM

Sampler Signature: *[Signature]*

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH			ICE
	IRR WELL LRG-00457	1	250 ml	X						X	X	X	2/21/14	9:15
	IRR WELL RG-00457	1	250 ml	X						X	X	X	2/21/14	9:15

Relinquished By: *[Signature]* Date: 2/21/14 Time: 12:55

Received By: *[Signature]* Date: 2/21/14 Time: 12:55

Relinquished By: _____ Date: _____ Time: _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-12 Date Gauged 2/20/14
 Site Del Norte Dairy Time Gauged 13:46
 Depth to PSH 8 feet Well Diameter 4" inches
 Depth to Water 22.48 feet Height of Fluid Column 7.39 feet
 Total Depth 25.87 feet Volume in Well 4.87 gallons
 (3 Well Volumes = 14.63 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:48 2/20/14 Purged Method Bail

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
13:50	3	3	19.2	3493	6.87	30	2657
14:00	3	6	19.1	3484	6.89	32	2654
14:09	3	9	19.0	3469	6.91	36	2657
14:15	3	12	18.9	3464	6.94	38	2646
14:30	2.5	14.5	18.8	3462	6.97	40	2644

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

Time/Date Sampled 14:34 2/20/14 Purged/Sampled By [Signature]

Sample Method Bail

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-05 Date Gauged 2/20/12
 Site DEL Norte Valley Time Gauged 13:14
 Depth to PSH. 0 feet Well Diameter 2" inches
 Depth to Water 26.36 feet Height of Fluid Column 5.09 feet
 Total Depth 31.45 feet Volume in Well 0.86 gallons
 (3 Well Volumes = 2.59 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 13:17 2/20/14 Purged Method Bail on

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
13:20	.5	.5	20.1	4720	6.93	54	3691
13:24	.5	1	20.2	4712	6.95	55	3694
13:28	.5	1.5	19.9	4710	6.94	57	3692
13:32	.5	2.0	19.8	4707	6.96	58	3693
13:36	.5	2.5	18.7	4703	6.98	56	3691

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

Time/Date Sampled 13:40 2/20/14 Purged/Sampled By [Signature]

Sample Method Bail on

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-04 Date Gauged 2/20/14
 Site District North Pump Time Gauged 11:57
 Depth to PSH 0 feet Well Diameter 4" inches
 Depth to Water 33.75 feet Height of Fluid Column 4.65 feet
 Total Depth 38.40 feet Volume in Well 3.06 gallons
 (3 Well Volumes = 9.20 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:59 2/20/14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
12:00	2	2	20.6	3656	6.81	69	27.88
12:06	2	4	20.7	3658	6.80	69	2808
12:12	2	6	20.4	3660	6.82	67	2806
12:18	2	8	20.1	3662	6.82	69	2804
12:21	1	9	19.9	3666	6.83	70	2802

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

Time/Date Sampled 12:25 2/20/14 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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-13 Date Gauged 2/20/14
 Site OIA North Dairy Time Gauged 11:20
 Depth to PSH 18 feet Well Diameter 2 1/2 inches
 Depth to Water 40.80 feet Height of Fluid Column 18.02 feet
 Total Depth 58.82 feet Volume in Well 3.06 gallons
 (3 Well Volumes = 9.19 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:25 2/20/14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
11:25	2	2	20.9	4531	6.81	98	3540
11:31	2	4	20.4	4527	6.84	97	3541
11:38	2	6	19.8	4520	6.83	86	3539
11:45	2	8	18.7	4519	6.82	82	3534
11:50	1	9	18.6	4512	6.83	79	3530

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

Time/Date Sampled 11:52 2/20/14 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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-07 Date Gauged 2/20/14
 Site Del Norte Dairy Time Gauged 1050
 Depth to PSH 8 feet Well Diameter 2" inches
 Depth to Water 34.40 feet Height of Fluid Column 4.89 feet
 Total Depth 39.29 feet Volume in Well 0.83 gallons
 (3 Well Volumes = 2.49 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1052 2/20/14 Purged Method Bailar

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
1054	1	1	19.1	4014	7.12	101	3082
1057	1	2	18.7	4021	7.10	101	3086
1100	.5	2.5	18.6	4018	7.09	99	3089

Actual Purge Volume 2.5 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 1103 2/20/14 Purged/Sampled By [Signature]
 Sample Method Bailar
 Requested Analyses _____
 Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 126-09 Date Gauged 2/20/14
 Site DEL NORTON Dairy Time Gauged 10:26
 Depth to PSH 8 feet Well Diameter 2 inches
 Depth to Water 76.16 feet Height of Fluid Column 6.32 feet
 Total Depth 82.48 feet Volume in Well 1.07 gallons
 (3 Well Volumes = 3.22 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:29 2/20/14 Purged Method Bailor

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:30	1	1	19.6	4370	7.12	108	3419
10:34	1	2	19.4	4371	7.20	100	3415
10:39	1	3	18.8	4373	7.21	101	3420

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

Time/Date Sampled 10:41 2/20/14 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-D1A Date Gauged 2/28/14
 Site Rose Valley Dairy Time Gauged 10:10
 Depth to PSH 0 feet Well Diameter 2" inches
 Depth to Water 16.81 feet Height of Fluid Column 8.38 feet
 Total Depth 25.20 feet Volume in Well 1.42 gallons
 (3 Well Volumes = 4.28 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:13 2/29/14 Purged Method Baiter

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
10:18	4.0	1.0	20.1	4204	7.39	10	3276
10:24	4.0	1.0	19.9	4212	7.44	13	3288
10:31	4.0	1.0	19.6	4216	7.43	15	3299
10:38	4.0	1.0	19.3	4218	7.43	17	3000

Actual Purge Volume 4.0 gals Field Measurements stabilized within ± 10% _____

Time/Date Sampled 10:41 2/29/14 Purged/Sampled By [Signature]

Sample Method Baiter

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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 2/28/14
 Site Riverton Valley Dairy Time Gauged 10:50
 Depth to PSH 8 feet Well Diameter 4" inches
 Depth to Water 8 feet Height of Fluid Column — feet
 Total Depth 20.88 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)
10:50							

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

Time/Date Sampled — Purged/Sampled By JL

Sample Method —

Requested Analyses —

Comments/Observations Dry Probe came up dry no water
or mud on probe

Well Casing Volumes
 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 2/29/14
 Site River Valley Drivay Time Gauged 11:04
 Depth to PSH 0 feet Well Diameter 4" inches
 Depth to Water 24.50 feet Height of Fluid Column 16.45 feet
 Total Depth 40.95 feet Volume in Well 10.85 gallons
 (3 Well Volumes = 32.57 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:06 2/29/14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
11:06	32.5	5.0	21.9	3441	7.23	22	2624
11:19	32.5	10.0	21.8	3443	7.27	24	2620
11:34	32.5	15.0	20.5	3448	7.29	26	2625
11:48	32.5	20.0	20.7	3450	7.29	24	2627
12:02	32.5	25.0	20.1	3449	7.28	33	2628
12:16	32.5	30.0	19.9	3445	7.27	31	2635
12:31	32.5	32.5	19.8	3443	7.26	32	2637

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

Time/Date Sampled 12:35 2/29/14 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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-04 Date Gauged 3-3-14
 Site River Valley Time Gauged 1403
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 25.85 feet Height of Fluid Column 4.15 feet
 Total Depth 30.0 feet Volume in Well .581 gallons
 (3 Well Volumes = 1.743 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1408 3-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
1411	1	1	20.2	6153	7.02	125	4982
1412	.75	1.75	20.8	6141	7.04	123	4971

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

Time/Date Sampled 1412 3-3-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-05 Date Gauged 3-3-14

Site River Valley Time Gauged 1310

Depth to PSH _____ feet Well Diameter 2" inches

Depth to Water 15.73 feet Height of Fluid Column 6.02 feet

Total Depth 21.75 feet Volume in Well 1.0234 gallons

(3 Well Volumes = 3.07 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1315 3-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (mg/L)
1318	1	1	19.0	4995	6.94	144	3957
1322	1	2	19.0	5009	7.04	146	3969
1326	1	3	19.0	5002	7.06	147	3961

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

Time/Date Sampled 1326 3-3-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-09 Date Gauged 3-3-14
 Site RIVER VALLEY Time Gauged 1335
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 16.52 feet Height of Fluid Column .5916 feet
 Total Depth 20.0 feet Volume in Well _____ gallons
 (3 Well Volumes = 1.77 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1341 3-3-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
1343	1	1	17.6	4612	6.97	126	3637
1344	.75	1.75	17.4	4604	6.98	132	3625

Actual Purge Volume 1.75 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 1344 3-3-14 Purged/Sampled By JV
 Sample Method BAIL
 Requested Analyses _____
 Comments/Observations _____

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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167.07 Date Gauged 2/28/14
 Site River Valley Dairy Time Gauged 9:39
 Depth to PSH 8 feet Well Diameter 2" inches
 Depth to Water 16.85 feet Height of Fluid Column 8.15 feet
 Total Depth 25.00 feet Volume in Well 1.38 gallons
 (3 Well Volumes = 4.15 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 9:44 2/29/14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TPS DO (mg/L)
9:45	4	1	19.3	2429	8.65	46	1291
9:50	4	1	19.0	2426	8.64	30	1288
9:56	4	1	19.1	2427	8.62	27	1784
10:01	4	1	19.2	2425	8.59	24	1984

Actual Purge Volume 4.0 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 10:05 2/29/14 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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 167-08 Date Gauged 3-4-14
 Site River Valley Time Gauged 7:45
 Depth to PSH _____ feet Well Diameter 2" inches
 Depth to Water 18.76 feet Height of Fluid Column 12.54 feet
 Total Depth 31.3 feet Volume in Well 2.13 gallons
 (3 Well Volumes = 6.39 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 7:48 3-4-14 Purged Method BAIL

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS DO (mg/L)
7:50	1	1	16.8	4861	9.38	89	3857
7:54	1	2	17.3	4815	9.12	84	3815
7:57	1	3	17.6	4808	8.79	69	3806
8:00	1	4	17.3	4832	8.61	57	3825
8:04	1	5	17.2	4801	8.39	50	3802
8:08	1	6	17.2	4809	8.26	47	3811
8:12	.5	6.5	17.1	4805	8.21	45	3814

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

Time/Date Sampled 8:12 3-4-14 Purged/Sampled By JV

Sample Method BAIL

Requested Analyses _____

Comments/Observations _____

Well Casing Volumes

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

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):

River Valley Dairy, PO Box 1929, Anthony, NM 88021 Bruce Bonestroo 575-233-2061

Project #: 435917 Project Name: River Valley Dairy, LLC

Sampler Signature: *[Signature]*

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
167-08		1		X				X		X			3-3-14	8:12
167-08		1		X				X		X			3-3-14	8:12
167-09		1		X				X		X				
167-09		1		X				X		X				
167-Lagoon		1		X				X		X				
167-Lagoon		1		X				X		X				

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

Relinquished By: <u><i>[Signature]</i></u>	Date: <u>3-4-14</u>	Time: <u>1431</u>	Received By: <u><i>[Signature]</i></u>	Date: <u>3-4-14</u>	Time: <u>1430</u>
Relinquished By: <u> </u>	Date: <u> </u>	Time: <u> </u>	Received at Laboratory By: <u> </u>	Date: <u> </u>	Time: <u> </u>

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

Remarks:

Hold

Turn Around Time

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	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X

TraceAnalysis, Inc.
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298
 Phone #: 915-859-8150
 Cell #: _____
 Fax #: _____
 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
Project #: 435917
Project Name: River Valley Dairy, LLC
Sampler Signature: *Jay*

Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM 88021
Invoice to (if different from above): Bruce Bonestroo 575-233-2061
 River Valley Dairy, PO Box 1929, Anthony, NM 88021

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		TIME		
				WATER	AIR	SOIL	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE		DATE	
167-01		1		X				X				X				
167-01		1		X				X				X				
167-01A		1		X				X				X				
167-01A		1		X				X				X				
167-02		1		X				X				X				
167-02		1		X				X				X				
167-03		1		X				X				X				
167-03		1		X				X				X				
167-04		1		X				X				X				
167-04		1		X				X				X				
167-05		1		X				X				X				
167-05		1		X				X				X				
167-09	09	1		X				X				X				
167-09	09	1		X				X				X				
167-09	LAGOON	1		X				X				X				
167-09	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																					
Nitrates EPA 300																					
TKN SM 4500 NORG C																					
Chloride EPA 300																					
Total Dissolved Solids SM 2540 C MOD																					

Remarks: _____
 Lab Use Only
 Intact / N
 Headspace Y/N / N
 Temp *42°C* / *Clear*
 Log-in Review
 Dry Weight Basis Required
 TRRP Report Required
Carry on

Relinquished By: *Jay* Date: 3-3-14 Time: 15:03
 Received By: *[Signature]* Date: 3-3-14 Time: 15:03
 Relinquished By: _____ Date: _____ Time: _____
 Received at Laboratory By: _____ Date: _____ Time: _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-01 Date Gauged 3-6-14
 Site Sunset Time Gauged 10:33

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 21.67 feet Height of Fluid Column 4.25 feet
 Total Depth 25.92 feet Volume in Well .72 gallons
 (3 Well Volumes = 2.17 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:37 / 3-6-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS(ppm) DO (mg/L)
10:41	1	1	20.7	4961	6.93	59	3921
10:46	1	2	20.4	4988	6.99	51	3945
10:51	1	3	20.8	4895	7.04	46	3858

Actual Purge Volume 3 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 10:51 / 3-6-14 Purged/Sampled By Hector Dyj
 Sample Method Bailer
 Requested Analyses 1
 Comments/Observations Water Brownish Color

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-02 Date Gauged 3-6-14
 Site Sunset Time Gauged 9⁰⁰ AM

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 15.75 feet Height of Fluid Column 4.98 feet
 Total Depth 20.73 feet Volume in Well .85 gallons
 (3 Well Volumes = 2.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 10:09 ~~9:12~~ / 3-6-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (ppm) DO (mg/L)
10:15 am	1	1	20.9	3475	7.27	65	2646
10:18 am	1	2	19.1	3311	7.09	65	2520
10:23	1	3	19.3	3328	6.96	71	2533

Actual Purge Volume 3 gals Field Measurements stabilized within ± 10%
 Time/Date Sampled 10:23 / 3-6-14 Purged/Sampled By Hector Diaz
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations _____

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257-03 Date Gauged 3-6-14
 Site Sunset Time Gauged 11:33

Depth to PSH _____ feet Well Diameter 2 inches
 Depth to Water 13.47 feet Height of Fluid Column .25 feet
 Total Depth 13.72 feet Volume in Well .04 gallons
 (3 Well Volumes = .1 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 11:54 / 3-6-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDS (ppm) DO (mg/L)
11:57	1	1	17.2	3505	6.98	54	2683
12:02	1	2	17.2	3516	6.80	54	2694
12:10	1	3	18.8	3486	6.60	57	2664

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

Time/Date Sampled 12:10 / 3-6-14 Purged/Sampled By [Signature]

Sample Method Bailer

Requested Analyses _____

Comments/Observations Light brown 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

MONITOR WELL DEVELOPMENT FIELD FORM

FLUID LEVEL DATA

Well ID 257/260-01 Date Gauged 3-6-14
 Site Sunset Time Gauged 1331

Depth to PSH _____ feet Well Diameter 4 inches
 Depth to Water 14.02 feet Height of Fluid Column 6.32 feet
 Total Depth 20.34 feet Volume in Well 4.17 gallons
 (3 Well Volumes = 12.5 gallons)

GROUNDWATER SAMPLING DATA

Time/date Purged 1342 / 3-6-14 Purged Method Bailer

Time	Purge Vol (gal)	Cumul Purge Vol (gal)	Temp (°C)	SpC (µs/cm)	pH	ORP (mV)	TDSC (ppm) DO (mg/L)
1349	5	5	19.1	3900	6.73	52	3014
1415	5	10	19.9	4158	6.86	506	3228
1424	5	15	18.5	4183	6.75	-0	3253

Actual Purge Volume 15 gals Field Measurements stabilized within ± 10% _____
 Time/Date Sampled 1424 / 3-6-14 Purged/Sampled By [Signature]
 Sample Method Bailer
 Requested Analyses _____
 Comments/Observations Water murky little particles

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

APPENDIX B
ANALYTICAL LABORATORY REPORTS
(Electronic Format – CD)



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: March 12, 2014

Work Order: 14021832



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
354898	70/86/340	water	2014-02-18	11:20	2014-02-18
354899	86/340	water	2014-02-18	10:22	2014-02-18
354900	340 Lagoon	water	2014-02-18	14:10	2014-02-18

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

This report consists of a total of 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.

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

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QC Batch 109575 - CCV (3)	17
QC Batch 109575 - CCV (4)	17
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Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2014-02-18 and assigned to work order 14021832. Samples for work order 14021832 were received intact at a temperature of 3 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	92656	2014-02-18 at 11:12	109575	2014-02-18 at 11:12
NO3 (IC)	E 300.0	92656	2014-02-18 at 11:12	109575	2014-02-18 at 11:12
P, Total	S 6010C	92598	2014-02-20 at 15:45	109554	2014-02-24 at 10:26
TDS	SM 2540C	92604	2014-02-20 at 10:45	109511	2014-02-20 at 10:45
TKN	E 351.3	92979	2014-03-07 at 12:00	109954	2014-03-07 at 14:15
TKN	E 351.3	93066	2014-03-11 at 09:20	110059	2014-03-11 at 17:45

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14021832 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: 354898 - 70/86/340

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109575 Date Analyzed: 2014-02-18 Analyzed By: JR
 Prep Batch: 92656 Sample Preparation: 2014-02-18 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	1810	1810	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 354898 - 70/86/340

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109575 Date Analyzed: 2014-02-18 Analyzed By: JR
 Prep Batch: 92656 Sample Preparation: 2014-02-18 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	7.19	7.19	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 354898 - 70/86/340

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109511 Date Analyzed: 2014-02-20 Analyzed By: MC
 Prep Batch: 92604 Sample Preparation: 2014-02-20 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	4580	4580	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 354898 - 70/86/340

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 109954 Date Analyzed: 2014-03-07 Analyzed By: CF
 Prep Batch: 92979 Sample Preparation: 2014-03-07 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 354899 - 86/340

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109575 Date Analyzed: 2014-02-18 Analyzed By: JR
 Prep Batch: 92656 Sample Preparation: 2014-02-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	460	460	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 354899 - 86/340

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109575 Date Analyzed: 2014-02-18 Analyzed By: JR
 Prep Batch: 92656 Sample Preparation: 2014-02-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	12.4	12.4	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 354899 - 86/340

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109511 Date Analyzed: 2014-02-20 Analyzed By: MC
 Prep Batch: 92604 Sample Preparation: 2014-02-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2370	2370	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 354899 - 86/340

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110059 Date Analyzed: 2014-03-11 Analyzed By: CF
 Prep Batch: 93066 Sample Preparation: 2014-03-11 Prepared By: CF

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: 354900 - 340 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109575 Date Analyzed: 2014-02-18 Analyzed By: JR
 Prep Batch: 92656 Sample Preparation: 2014-02-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	1120	1120	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 354900 - 340 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109575 Date Analyzed: 2014-02-18 Analyzed By: JR
 Prep Batch: 92656 Sample Preparation: 2014-02-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	1.73	<2.50	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 354900 - 340 Lagoon

Laboratory: Lubbock
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A
 QC Batch: 109554 Date Analyzed: 2014-02-24 Analyzed By: RR
 Prep Batch: 92598 Sample Preparation: 2014-02-21 Prepared By: PM

continued . . .

sample 354900 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Phosphorous		2	144	144	<0.0654	mg/L	10	0.0654	0.5	0.00654

Sample: 354900 - 340 Lagoon

Laboratory: El Paso
 Analysis: TDS
 QC Batch: 109511
 Prep Batch: 92604

Analytical Method: SM 2540C
 Date Analyzed: 2014-02-20
 Sample Preparation: 2014-02-20

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	5770	5770	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 354900 - 340 Lagoon

Laboratory: Lubbock
 Analysis: TKN
 QC Batch: 110059
 Prep Batch: 93066

Analytical Method: E 351.3
 Date Analyzed: 2014-03-11
 Sample Preparation: 2014-03-11

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

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	147	147	<16.6	mg/L	10	16.6	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109511
Prep Batch: 92604Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20Analyzed 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: 109554
Prep Batch: 92598Date Analyzed: 2014-02-24
QC Preparation: 2014-02-20Analyzed By: RR
Prepared By: PM

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		2	<0.00654	mg/L	0.00654

Method Blank (1)

QC Batch: 109575
Prep Batch: 92656Date Analyzed: 2014-02-18
QC Preparation: 2014-02-18Analyzed 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: 109575
Prep Batch: 92656Date Analyzed: 2014-02-18
QC Preparation: 2014-02-18Analyzed 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: 109954
Prep Batch: 92979Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Method Blank (1)QC Batch: 110059
Prep Batch: 93066Date Analyzed: 2014-03-11
QC Preparation: 2014-03-11Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 354899QC Batch: 109511
Prep Batch: 92604Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2370	2370	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109511
Prep Batch: 92604Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	948	mg/L	1	1000	<2.50	95	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	978	mg/L	1	1000	<2.50	98	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: 109554
Prep Batch: 92598Date Analyzed: 2014-02-24
QC Preparation: 2014-02-20Analyzed By: RR
Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		2	0.457	mg/L	1	0.500	<0.00654	91	85 - 115

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		2	0.468	mg/L	1	0.500	<0.00654	94	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109575
Prep Batch: 92656Date Analyzed: 2014-02-18
QC Preparation: 2014-02-18Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	25.0	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: 109575
Prep Batch: 92656

Date Analyzed: 2014-02-18
QC Preparation: 2014-02-18

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.99	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 Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.02	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: 109954
Prep Batch: 92979

Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.66	90	85 - 115	2	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110059
Prep Batch: 93066

Date Analyzed: 2014-03-11
QC Preparation: 2014-03-11

Analyzed By: CF
Prepared By: CF

Matrix Spike (MS-1) Spiked Sample: 354592QC Batch: 109575
Prep Batch: 92656Date Analyzed: 2014-02-18
QC Preparation: 2014-02-18Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	320	mg/L	62.5	312	<2.66	102	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	319	mg/L	62.5	312	<2.66	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: 354744QC Batch: 109954
Prep Batch: 92979Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	56.7	mg/L	1	50.0	13.3	87	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
Total Kjeldahl Nitrogen - N		2	58.8	mg/L	1	50.0	13.3	91	80 - 120	4	20

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

Matrix Spike (MS-1) Spiked Sample: 356057QC Batch: 110059
Prep Batch: 93066Date Analyzed: 2014-03-11
QC Preparation: 2014-03-11Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.66	87	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
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.66	90	80 - 120	3	20

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

Calibration Standards

Standard (ICV-1)

QC Batch: 109554

Date Analyzed: 2014-02-24

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.13	103	90 - 110	2014-02-24

Standard (CCV-1)

QC Batch: 109554

Date Analyzed: 2014-02-24

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.27	105	90 - 110	2014-02-24

Standard (CCV-1)

QC Batch: 109575

Date Analyzed: 2014-02-18

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	2014-02-18

Standard (CCV-1)

QC Batch: 109575

Date Analyzed: 2014-02-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.05	101	90 - 110	2014-02-18

Standard (CCV-2)

QC Batch: 109575

Date Analyzed: 2014-02-18

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	2014-02-18

Standard (CCV-2)

QC Batch: 109575

Date Analyzed: 2014-02-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.04	101	90 - 110	2014-02-18

Standard (CCV-3)

QC Batch: 109575

Date Analyzed: 2014-02-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.0	100	90 - 110	2014-02-18

Standard (CCV-3)

QC Batch: 109575

Date Analyzed: 2014-02-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.02	100	90 - 110	2014-02-18

Standard (CCV-4)

QC Batch: 109575

Date Analyzed: 2014-02-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.0	100	90 - 110	2014-02-18

Standard (CCV-4)

QC Batch: 109575

Date Analyzed: 2014-02-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.01	100	90 - 110	2014-02-18

Standard (CCV-5)

QC Batch: 109575

Date Analyzed: 2014-02-18

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	2014-02-18

Standard (CCV-5)

QC Batch: 109575

Date Analyzed: 2014-02-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.04	101	90 - 110	2014-02-18

Standard (ICV-1)

QC Batch: 109954

Date Analyzed: 2014-03-07

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.48	90	85 - 115	2014-03-07

Standard (CCV-1)

QC Batch: 109954

Date Analyzed: 2014-03-07

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.48	90	85 - 115	2014-03-07

Standard (ICV-1)

QC Batch: 110059

Date Analyzed: 2014-03-11

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.48	90	85 - 115	2014-03-11

Standard (CCV-1)

QC Batch: 110059

Date Analyzed: 2014-03-11

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-11

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	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.

LAB Order ID # 14021832

Company Name: Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298
4021832 TraceAnalysis, Inc.
 Paso, TX 79932
 Tel (915) 585-3443
 Fax (915) 585-4944

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

Project Name: Bright Star Dairy
 Project Location (including state): Bright Star Dairy, 13520 Stern Drive, Mesquite, NM
 Invoice to (if different from above): Bright Star Dairy, P.O. Box 167, Mesquite, NM 88048
 Project #: Tim Hyde 575-233-2029
 Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					Sampling								
				WATER	AIR	SOIL	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME						
340-1		1		X				X				X									
340-1		1		X				X				X									
340-2		1		X				X				X									
340-2		1		X				X				X									
354898-1	70/86/340	1	250 mL	X				X				X				2/18/14	11:20				
L - 2	70/86/340	1	250 mL	X				X				X				2/18/14	11:20				
354899-1	86/340	1	250 mL	X				X				X				2/18/14	10:22				
L - 2	86/340	1	250 mL	X				X				X				2/18/14	10:22				
354900-1	340 Lagoon	1	250 mL	X				X				X				2/18/14	14:10				
-2	340 Lagoon	1	250 mL	X				X				X				2/18/14	14:10				
-3	340 Lagoon	1	250 mL	X				X				X				2/18/14	14:10				

Relinquished By: *[Signature]* Date: 2/18/14 Time: 14:55
 Received By: *[Signature]* Date: 2/18/14 Time: 14:55
Relinquished By: *[Signature]* Date: 2/18/14 Time: 16:30
 Received By: *[Signature]* Date: 2/19/14 Time: 9:00
 Log-in Reason: 2-19-14
 Temp: 3.0C
 Headspace: Y/N
 Intact: 0/1/N
 Lab Use Only
 Remarks: ON ICE
 TRN - Analysis in Lubbock
 Dry Weight Basis Required
 RRP Report Required 3.6/3.4

ANALYSIS REQUEST

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



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Isaac Dominguez
 Dominguez Dairy #2
 13600 Stern Drive
 P. O. Box 21
 Mesquite, NM, 88048

Report Date: March 14, 2014

Work Order: 14022647



Project Location: Dominguez Dairy #2
 Project Name: Dominguez Dairy #2
 Project Number: 435914

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
356054	42-2	water	2014-02-26	11:08	2014-02-26
356055	42-3	water	2014-02-26	09:42	2014-02-26
356056	42-6	water	2014-02-26	10:37	2014-02-26
356057	42-8	water	2014-02-26	11:42	2014-02-26
356058	42-9	water	2014-02-26	10:11	2014-02-26
356059	42-10	water	2014-02-26	13:06	2014-02-26
356060	42-11	water	2014-02-26	12:29	2014-02-26
356061	42-12	water	2014-02-26	12:45	2014-02-26
356062	42-13	water	2014-02-26	12:05	2014-02-26
356063	42-Lagoon	water	2014-02-26	11:55	2014-02-26

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

This report consists of a total of 36 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 2014-02-26 and assigned to work order 14022647. Samples for work order 14022647 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	92861	2014-02-27 at 18:03	109815	2014-02-27 at 18:03
Chloride (IC)	E 300.0	92862	2014-02-28 at 02:30	109817	2014-02-28 at 02:30
Chloride (IC)	E 300.0	93029	2014-02-26 at 19:05	110015	2014-02-26 at 19:05
NO3 (IC)	E 300.0	92861	2014-02-27 at 18:03	109815	2014-02-27 at 18:03
NO3 (IC)	E 300.0	92862	2014-02-28 at 02:30	109817	2014-02-28 at 02:30
NO3 (IC)	E 300.0	93029	2014-02-26 at 19:05	110015	2014-02-26 at 19:05
TDS	SM 2540C	92776	2014-02-27 at 12:00	109715	2014-02-27 at 12:00
TDS	SM 2540C	92777	2014-02-27 at 13:15	109717	2014-02-27 at 13:15
TKN	E 351.3	93066	2014-03-11 at 09:20	110059	2014-03-11 at 17:45
TKN	E 351.3	93139	2014-03-13 at 09:45	110158	2014-03-13 at 15:15

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 14022647 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: 356054 - 42-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	469	469	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 356054 - 42-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	9.28	9.28	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356054 - 42-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109715 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92776 Sample Preparation: 2014-02-27 Prepared By: MC

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

Sample: 356054 - 42-2

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110059 Date Analyzed: 2014-03-11 Analyzed By: CF
 Prep Batch: 93066 Sample Preparation: 2014-03-11 Prepared By: CF

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356055 - 42-3

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	1070	1070	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356055 - 42-3

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	62.8	62.8	<0.374	mg/L	10	0.374	0.5	0.0374

Sample: 356055 - 42-3

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109715 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92776 Sample Preparation: 2014-02-27 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3160	3160	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356055 - 42-3

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Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 110059 Date Analyzed: 2014-03-11 Analyzed By: CF
Prep Batch: 93066 Sample Preparation: 2014-03-11 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356056 - 42-6

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	417	417	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 356056 - 42-6

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	59.3	59.3	<0.374	mg/L	10	0.374	0.5	0.0374

Sample: 356056 - 42-6

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 109715 Date Analyzed: 2014-02-27 Analyzed By: MC
Prep Batch: 92776 Sample Preparation: 2014-02-27 Prepared By: MC

continued . . .

sample 356056 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2380	2380	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356056 - 42-6

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110059 Date Analyzed: 2014-03-11 Analyzed By: CF
 Prep Batch: 93066 Sample Preparation: 2014-03-11 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356057 - 42-8

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109815 Date Analyzed: 2014-02-27 Analyzed By: JR
 Prep Batch: 92861 Sample Preparation: 2014-02-27 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	251	251	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 356057 - 42-8

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109815 Date Analyzed: 2014-02-27 Analyzed By: JR
 Prep Batch: 92861 Sample Preparation: 2014-02-27 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	32.6	32.6	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 356057 - 42-8

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109715 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92776 Sample Preparation: 2014-02-27 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1790	1790	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356057 - 42-8

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110059 Date Analyzed: 2014-03-11 Analyzed By: CF
 Prep Batch: 93066 Sample Preparation: 2014-03-11 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356058 - 42-9

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109815 Date Analyzed: 2014-02-27 Analyzed By: JR
 Prep Batch: 92861 Sample Preparation: 2014-02-27 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	715	715	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356058 - 42-9

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Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109815 Date Analyzed: 2014-02-27 Analyzed By: JR
Prep Batch: 92861 Sample Preparation: 2014-02-27 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	53.5	53.5	<0.426	mg/L	10	0.426	0.5	0.0426

Sample: 356058 - 42-9

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 109715 Date Analyzed: 2014-02-27 Analyzed By: MC
Prep Batch: 92776 Sample Preparation: 2014-02-27 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3030	3030	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356058 - 42-9

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 110158 Date Analyzed: 2014-03-13 Analyzed By: CF
Prep Batch: 93139 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356059 - 42-10

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109815 Date Analyzed: 2014-02-27 Analyzed By: JR
Prep Batch: 92861 Sample Preparation: 2014-02-27 Prepared By: JR

continued ...

sample 356059 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	416	416	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 356059 - 42-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109815 Date Analyzed: 2014-02-27 Analyzed By: JR
 Prep Batch: 92861 Sample Preparation: 2014-02-27 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	0.982	<2.50	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 356059 - 42-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109717 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92777 Sample Preparation: 2014-02-27 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1400	1400	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356059 - 42-10

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110158 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93139 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356060 - 42-11

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109817 Date Analyzed: 2014-02-28 Analyzed By: JR
 Prep Batch: 92862 Sample Preparation: 2014-02-28 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	339	339	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 356060 - 42-11

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109817 Date Analyzed: 2014-02-28 Analyzed By: JR
 Prep Batch: 92862 Sample Preparation: 2014-02-28 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	1.44	<2.50	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 356060 - 42-11

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109717 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92777 Sample Preparation: 2014-02-27 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1280	1280	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356060 - 42-11

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110158 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93139 Sample Preparation: 2014-03-13 Prepared By: CF

continued ...

sample 356060 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356061 - 42-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109817 Date Analyzed: 2014-02-28 Analyzed By: JR
 Prep Batch: 92862 Sample Preparation: 2014-02-28 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	336	336	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 356061 - 42-12

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109817 Date Analyzed: 2014-02-28 Analyzed By: JR
 Prep Batch: 92862 Sample Preparation: 2014-02-28 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	1.87	<2.50	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 356061 - 42-12

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109717 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92777 Sample Preparation: 2014-02-27 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1180	1180	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356061 - 42-12

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110158 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93139 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356062 - 42-13

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109817 Date Analyzed: 2014-02-28 Analyzed By: JR
 Prep Batch: 92862 Sample Preparation: 2014-02-28 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	871	871	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356062 - 42-13

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109817 Date Analyzed: 2014-02-28 Analyzed By: JR
 Prep Batch: 92862 Sample Preparation: 2014-02-28 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	50.0	50.0	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 356062 - 42-13

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Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 109717 Date Analyzed: 2014-02-27 Analyzed By: MC
Prep Batch: 92777 Sample Preparation: 2014-02-27 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3340	3340	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356062 - 42-13

Laboratory: Lubbock
Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
QC Batch: 110158 Date Analyzed: 2014-03-13 Analyzed By: CF
Prep Batch: 93139 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356063 - 42-Lagoon

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109817 Date Analyzed: 2014-02-28 Analyzed By: JR
Prep Batch: 92862 Sample Preparation: 2014-02-28 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	1200	1200	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356063 - 42-Lagoon

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109817 Date Analyzed: 2014-02-28 Analyzed By: JR
Prep Batch: 92862 Sample Preparation: 2014-02-28 Prepared By: JR

continued ...

sample 356063 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	3.78	3.78	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 356063 - 42-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109717 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92777 Sample Preparation: 2014-02-27 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	5870	5870	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356063 - 42-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110158 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93139 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	343	343	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109715
Prep Batch: 92776

Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27

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: 109717
Prep Batch: 92777

Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27

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: 109815
Prep Batch: 92861

Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.27	mg/L	0.678

Method Blank (1)

QC Batch: 109815
Prep Batch: 92861

Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27

Analyzed 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

Method Blank (1)

QC Batch: 109817
Prep Batch: 92862

Date Analyzed: 2014-02-28
QC Preparation: 2014-02-28

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.27	mg/L	0.678

Method Blank (1)

QC Batch: 109817
Prep Batch: 92862

Date Analyzed: 2014-02-28
QC Preparation: 2014-02-28

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: 110015
Prep Batch: 93029

Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26

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: 110015
Prep Batch: 93029

Date Analyzed: 2014-02-26
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Analyzed By: JR
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Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110059 Date Analyzed: 2014-03-11 Analyzed By: CF
Prep Batch: 93066 QC Preparation: 2014-03-11 Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Method Blank (1)

QC Batch: 110158 Date Analyzed: 2014-03-13 Analyzed By: CF
Prep Batch: 93139 QC Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 356058

QC Batch: 109715 Date Analyzed: 2014-02-27 Analyzed By: MC
Prep Batch: 92776 QC Preparation: 2014-02-27 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3040	3030	mg/L	1	0	10

Duplicate (1) Duplicated Sample: 356062

QC Batch: 109717 Date Analyzed: 2014-02-27 Analyzed By: MC
Prep Batch: 92777 QC Preparation: 2014-02-27 Prepared By: MC

Report Date: March 14, 2014
435914

Work Order: 14022647
Dominguez Dairy #2

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Dominguez Dairy #2

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3360	3340	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109715
Prep Batch: 92776

Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	978	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	991	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: 109717
Prep Batch: 92777

Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	994	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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	995	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: 109815
Prep Batch: 92861

Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.3	mg/L	1	25.0	<0.678	101	90 - 110

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

Param	F	C	LCSD		Dil.	Spike	Matrix	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units		Amount	Result				
Chloride		1	25.1	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: 109815
Prep Batch: 92861

Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike	Matrix	Rec.	Rec. Limit
			Result	Units		Amount	Result		
Nitrate-N		1	5.08	mg/L	1	5.00	<0.0426	102	90 - 110

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

Param	F	C	LCSD		Dil.	Spike	Matrix	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units		Amount	Result				
Nitrate-N		1	5.04	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: 109817
Prep Batch: 92862

Date Analyzed: 2014-02-28
QC Preparation: 2014-02-28

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike	Matrix	Rec.	Rec. Limit
			Result	Units		Amount	Result		
Chloride		1	25.9	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	LCSD		Dil.	Spike	Matrix	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units		Amount	Result				
Chloride		1	25.8	mg/L	1	25.0	<0.678	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: 109817
Prep Batch: 92862

Date Analyzed: 2014-02-28
QC Preparation: 2014-02-28

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.18	mg/L	1	5.00	<0.0426	104	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	5.18	mg/L	1	5.00	<0.0426	104	90 - 110	0

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

Laboratory Control Spike (LCS-1)

QC Batch: 110015
Prep Batch: 93029

Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	26.2	mg/L	1	25.0	<0.678	105	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1	26.3	mg/L	1	25.0	<0.678	105	90 - 110	0

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

Laboratory Control Spike (LCS-1)

QC Batch: 110015
Prep Batch: 93029

Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.27	mg/L	1	5.00	<0.0374	105	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	5.29	mg/L	1	5.00	<0.0374	106	90 - 110	0

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

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

Matrix Spike (MS-1) Spiked Sample: 356057

QC Batch: 109815 Date Analyzed: 2014-02-27 Analyzed By: JR
Prep Batch: 92861 QC Preparation: 2014-02-27 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	316	mg/L	55.6	278	32.6	102	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	314	mg/L	55.6	278	32.6	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: 356061

QC Batch: 109817 Date Analyzed: 2014-02-28 Analyzed By: JR
Prep Batch: 92862 QC Preparation: 2014-02-28 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1810	mg/L	55.6	1390	336	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1790	mg/L	55.6	1390	336	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: 356061

QC Batch: 109817 Date Analyzed: 2014-02-28 Analyzed By: JR
Prep Batch: 92862 QC Preparation: 2014-02-28 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	287	mg/L	55.6	278	<2.37	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: 356054

QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
Prep Batch: 93029 QC Preparation: 2014-02-26 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1960	mg/L	55.6	1390	469	107	80 - 120

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1980	mg/L	55.6	1390	469	109	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: 356054

QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
Prep Batch: 93029 QC Preparation: 2014-02-26 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	302	mg/L	55.6	278	9.28	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 Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	304	mg/L	55.6	278	9.28	106	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: 356057

QC Batch: 110059 Date Analyzed: 2014-03-11 Analyzed By: CF
Prep Batch: 93066 QC Preparation: 2014-03-11 Prepared By: CF

Report Date: March 14, 2014
435914

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Dominguez Dairy #2

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Dominguez Dairy #2

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.66	87	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.66	90	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: 356063

QC Batch: 110158
Prep Batch: 93139

Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	805	mg/L	10	500	343	92	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	805	mg/L	10	500	343	92	0	20

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

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-28

Standard (CCV-1)

QC Batch: 109817

Date Analyzed: 2014-02-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-02-28

Standard (CCV-2)

QC Batch: 109817

Date Analyzed: 2014-02-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-28

Standard (CCV-2)

QC Batch: 109817

Date Analyzed: 2014-02-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-02-28

Standard (CCV-3)

QC Batch: 109817

Date Analyzed: 2014-02-28

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-28

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-02-26

Standard (CCV-3)

QC Batch: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-02-26

Standard (CCV-3)

QC Batch: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-02-26

Standard (CCV-4)

QC Batch: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-26

Standard (CCV-4)

QC Batch: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-02-26

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	0.125	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.

LAB Order ID # 14022647

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

TraceAnalysis, Inc.
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298
 Paso, TX 79932
 Tel (915) 585-3443
 Fax (915) 585-4944

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

Project Name: Dominguez Dairy #2
 Project Location (including state): Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM
 Sampler Signature: JUV

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					Sampling			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
356054-1	42-2	1		X				X			X			2-26-14	1108
1-2	42-2	1		X				X			X				1108
356055-1	42-3	1		X				X			X			942	942
1-2	42-3	1		X				X			X			942	942
356056-1	42-6	1		X				X			X			1037	1037
1-2	42-6	1		X				X			X			1037	1037
356057-1	42-7	1		X				X			X				
1-2	42-7	1		X				X			X				
356058-1	42-8	1		X				X			X			1142	1142
1-2	42-8	1		X				X			X			1142	1142
356059-1	42-9	1		X				X			X			1011	1011
1-2	42-9	1		X				X			X			1011	1011
356060-1	42-10	1		X				X			X			1306	1306
1-2	42-10	1		X				X			X			1306	1306
356061-1	42-11	1		X				X			X			1229	1229
1-2	42-11	1		X				X			X			1229	1229

Relinquished By: JUV Date: 2-26-14 Time: 13:45
 Relinquished By: MRC TREP Date: 2-26-14 Time: 9:30
 Received By: MRC TREP Date: 2-26-14 Time: 13:45
 Received at Laboratory By: ASSETA Date: 2/26/14 Time: 9:30

Lab Use Only
 Intact Y N
 Headspace Y N
 Temp 5
 Log-in Review OK
 Dry Weight Basis Required
 TRRP Report Required

Remarks: MRC
TKN analysis in duplicate
LS: 48590337
7

Carmy In

5000 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):

Dominguez Dairy #2, P.O. Box 21, Mesquite, NM 88048

Project #:

435914

Project Location (including state):

Dominguez Dairy #2, 13600 Stern Drive, Mesquite, NM

Project Name:

Dominguez Dairy #2

Sampler Signature:

gub

5000 Aberdeen, Ste. 9
Paso, TX 79932
Tel (915) 585-3443
Fax (915) 585-4944

Phone #: 915-859-8150

Cell #:

Fax #:

E-mail: vayala@dhpump.com

Page 1 of 2
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 14022047

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

Remarks: *on ICE 48590387*
IP3.9/3.7 US 033
TKN analysis in subbook

Lab Use Only
Intact / N
Headspace Y / N
Temp 5
Log-in Review *004 2014*

Dry Weight Basis Required
 TRRP Report Required

(3)

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH			ICE	NONE
356061-1	42-12	1		X				X				X		2-26-14	1245
356062-1	42-12	1		X				X				X		1245	1245
356062-1	42-13	1		X				X				X		1205	1205
356063-1	42-13	1		X				X				X		1155	1155
356063-1	42 Lagoon	1		X				X				X		1155	1155
356063-1	42 Lagoon	1		X				X				X			

Relinquished By: *gub* Date: *2-26-14* Time: *13:45*

Relinquished By: *MRC TAEP* Date: *2-26-14* Time: *16:30*

Received By: *MRC TAEP* Date: *2-26-14* Time: *13:45*

Received at Laboratory By: *MRC TA* Date: *2-26-14* Time: *9:30*



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Bruce Bonestroo
 River Valley Dairy, LLC
 1400 La Chuga Rd., Mesquite
 P.O. Box 1929
 Anthony, NM, 88021

Report Date: March 14, 2014

Work Order: 14022820



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
356336	167-01A	water	2014-02-28	10:41	2014-02-28
356337	167-03	water	2014-02-28	12:35	2014-02-28
356338	167-06	water	2014-02-28	09:33	2014-02-28
356339	167-07	water	2014-02-28	10:05	2014-02-28

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

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2014-02-28 and assigned to work order 14022820. Samples for work order 14022820 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	92851	2014-03-01 at 00:58	109807	2014-03-01 at 00:58
NO3 (IC)	E 300.0	92851	2014-03-01 at 00:58	109807	2014-03-01 at 00:58
TDS	SM 2540C	92878	2014-03-03 at 13:30	109837	2014-03-03 at 13:30
TKN	E 351.3	93139	2014-03-13 at 09:45	110158	2014-03-13 at 15:15
TKN	E 351.3	93142	2014-03-13 at 15:15	110162	2014-03-13 at 15:15

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 14022820 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: 356336 - 167-01A

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109807 Date Analyzed: 2014-03-01 Analyzed By: JR
 Prep Batch: 92851 Sample Preparation: 2014-03-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	656	656	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356336 - 167-01A

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109807 Date Analyzed: 2014-03-01 Analyzed By: JR
 Prep Batch: 92851 Sample Preparation: 2014-03-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	2.03	<2.50	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 356336 - 167-01A

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109837 Date Analyzed: 2014-03-03 Analyzed By: MC
 Prep Batch: 92878 Sample Preparation: 2014-03-03 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	2820	2820	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356336 - 167-01A

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110158 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93139 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356337 - 167-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109807 Date Analyzed: 2014-03-01 Analyzed By: JR
 Prep Batch: 92851 Sample Preparation: 2014-03-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	516	516	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356337 - 167-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109807 Date Analyzed: 2014-03-01 Analyzed By: JR
 Prep Batch: 92851 Sample Preparation: 2014-03-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	15.4	15.4	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 356337 - 167-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109837 Date Analyzed: 2014-03-03 Analyzed By: MC
 Prep Batch: 92878 Sample Preparation: 2014-03-03 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	2140	2140	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356337 - 167-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110158 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93139 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356338 - 167-06

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109807 Date Analyzed: 2014-03-01 Analyzed By: JR
 Prep Batch: 92851 Sample Preparation: 2014-03-01 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	707	707	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356338 - 167-06

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109807 Date Analyzed: 2014-03-01 Analyzed By: JR
 Prep Batch: 92851 Sample Preparation: 2014-03-01 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	22.1	22.1	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 356338 - 167-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109837 Date Analyzed: 2014-03-03 Analyzed By: MC
 Prep Batch: 92878 Sample Preparation: 2014-03-03 Prepared By: MC

continued . . .

sample 356338 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2620	2620	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356338 - 167-06

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110158 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93139 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356339 - 167-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109807 Date Analyzed: 2014-03-01 Analyzed By: JR
 Prep Batch: 92851 Sample Preparation: 2014-03-01 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	229	229	<3.39	mg/L	5	3.39	2.5	0.678

Sample: 356339 - 167-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109807 Date Analyzed: 2014-03-01 Analyzed By: JR
 Prep Batch: 92851 Sample Preparation: 2014-03-01 Prepared By: JR

Method Blanks

Method Blank (1)

QC Batch: 109807
Prep Batch: 92851Date Analyzed: 2014-03-01
QC Preparation: 2014-03-01Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.27	mg/L	0.678

Method Blank (1)

QC Batch: 109807
Prep Batch: 92851Date Analyzed: 2014-03-01
QC Preparation: 2014-03-01Analyzed 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: 109837
Prep Batch: 92878Date Analyzed: 2014-03-03
QC Preparation: 2014-03-03Analyzed 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: 110158
Prep Batch: 93139Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Method Blank (1)

QC Batch: 110162
Prep Batch: 93142

Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 356442

QC Batch: 109837
Prep Batch: 92878

Date Analyzed: 2014-03-03
QC Preparation: 2014-03-03

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1500	1460	mg/L	1	3	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109807
Prep Batch: 92851Date Analyzed: 2014-03-01
QC Preparation: 2014-03-01Analyzed By: JR
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	26.6	mg/L	1	25.0	<0.678	106	90 - 110

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

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	26.9	mg/L	1	25.0	<0.678	108	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: 109807
Prep Batch: 92851Date Analyzed: 2014-03-01
QC Preparation: 2014-03-01Analyzed By: JR
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	5.33	mg/L	1	5.00	<0.0426	107	90 - 110

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

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	5.40	mg/L	1	5.00	<0.0426	108	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: 109837
Prep Batch: 92878Date Analyzed: 2014-03-03
QC Preparation: 2014-03-03Analyzed By: MC
Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
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	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1730	mg/L	55.6	1390	229	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
Chloride		1	1720	mg/L	55.6	1390	229	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: 356339

QC Batch: 109807
Prep Batch: 92851

Date Analyzed: 2014-03-01
QC Preparation: 2014-03-01

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	298	mg/L	55.6	278	<2.37	107	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	297	mg/L	55.6	278	<2.37	107	80 - 120	0	20

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

Matrix Spike (MS-1) Spiked Sample: 356063

QC Batch: 110158
Prep Batch: 93139

Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	805	mg/L	10	500	343	92	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
Total Kjeldahl Nitrogen - N		2	805	mg/L	10	500	343	92	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: 356457

QC Batch: 110162
Prep Batch: 93142

Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	469	mg/L	10	500	56	83	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
Total Kjeldahl Nitrogen - N		2	476	mg/L	10	500	56	84	80 - 120	2	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 109807

Date Analyzed: 2014-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-03-01

Standard (CCV-1)

QC Batch: 109807

Date Analyzed: 2014-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-03-01

Standard (CCV-2)

QC Batch: 109807

Date Analyzed: 2014-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-01

Standard (CCV-2)

QC Batch: 109807

Date Analyzed: 2014-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-03-01

Standard (CCV-3)

QC Batch: 109807

Date Analyzed: 2014-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-01

Standard (CCV-3)

QC Batch: 109807

Date Analyzed: 2014-03-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-03-01

Standard (ICV-1)

QC Batch: 110158

Date Analyzed: 2014-03-13

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-13

Standard (CCV-1)

QC Batch: 110158

Date Analyzed: 2014-03-13

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-13

Standard (ICV-1)

QC Batch: 110162

Date Analyzed: 2014-03-13

Analyzed By: CF

Report Date: March 14, 2014

Work Order: 14022820
River Valley Dairy, LLC

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1400 La Chuga Rd., Mesquite, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-13

Standard (CCV-1)

QC Batch: 110162

Date Analyzed: 2014-03-13

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.62	92	85 - 115	2014-03-13

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	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.



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: March 14, 2014

Work Order: 14021935



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
355102	70-01	water	2014-02-19	10:32	2014-02-19
355103	70-02	water	2014-02-19	11:15	2014-02-19
355104	70-03	water	2014-02-19	09:03	2014-02-19
355105	70-04	water	2014-02-19	13:34	2014-02-19
355106	70 Lagoon	water	2014-02-19	11:50	2014-02-19
355107	South Stormwater Lagoon	water	2014-02-19	11:22	2014-02-19

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

This report consists of a total of 29 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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QC Batch 109630 - Method Blank (1)	16
QC Batch 109729 - Method Blank (1)	16
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QC Batch 110163 - Method Blank (1)	17
QC Batch 109511 - Duplicate (1)	17
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QC Batch 109511 - LCS (1)	19
QC Batch 109584 - LCS (1)	19
QC Batch 109630 - LCS (1)	19
QC Batch 109729 - LCS (1)	20
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Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2014-02-19 and assigned to work order 14021935. Samples for work order 14021935 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	92784	2014-02-19 at 19:50	109729	2014-02-19 at 19:50
NO3 (IC)	E 300.0	92784	2014-02-19 at 19:50	109729	2014-02-19 at 19:50
P, Total	S 6010C	92628	2014-02-21 at 14:17	109584	2014-02-24 at 15:20
SO4 (IC)	E 300.0	93014	2014-02-26 at 12:13	109997	2014-02-26 at 12:13
Sulfide	SM 4500-S2 D	92705	2014-02-25 at 13:45	109630	2014-02-25 at 15:00
TDS	SM 2540C	92604	2014-02-20 at 10:45	109511	2014-02-20 at 10:45
TKN	SM 4500-NH3 B,C	93145	2014-03-13 at 15:25	110163	2014-03-13 at 18:50

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 14021935 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: 355102 - 70-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	616	616	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355102 - 70-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	22.6	22.6	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355102 - 70-01

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109997 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93014 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	461	461	<1.30	mg/L	50	1.30	2.5	0.026

Sample: 355102 - 70-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109511 Date Analyzed: 2014-02-20 Analyzed By: MC
 Prep Batch: 92604 Sample Preparation: 2014-02-20 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2620	2620	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355102 - 70-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110163 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93145 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355103 - 70-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	793	793	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355103 - 70-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	36.9	36.9	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355103 - 70-02

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109997 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93014 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1	455	455	<1.30	mg/L	50	1.30	2.5	0.026

Sample: 355103 - 70-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109511 Date Analyzed: 2014-02-20 Analyzed By: MC
 Prep Batch: 92604 Sample Preparation: 2014-02-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3160	3160	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355103 - 70-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110163 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93145 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355104 - 70-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

continued ...

sample 355104 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	3400	3400	<67.8	mg/L	100	67.8	2.5	0.678

Sample: 355104 - 70-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	57.1	57.1	<0.426	mg/L	10	0.426	0.5	0.0426

Sample: 355104 - 70-03

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109997 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93014 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	1590	1590	<1.30	mg/L	50	1.30	2.5	0.026

Sample: 355104 - 70-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109511 Date Analyzed: 2014-02-20 Analyzed By: MC
 Prep Batch: 92604 Sample Preparation: 2014-02-20 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	8380	8380	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355104 - 70-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110163 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93145 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355105 - 70-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	607	607	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355105 - 70-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	22.3	22.3	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355105 - 70-04

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109997 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93014 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		1	518	518	<1.30	mg/L	50	1.30	2.5	0.026

Sample: 355105 - 70-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109511 Date Analyzed: 2014-02-20 Analyzed By: MC
 Prep Batch: 92604 Sample Preparation: 2014-02-20 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2580	2580	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355105 - 70-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110163 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93145 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355106 - 70 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	1450	1450	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355106 - 70 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	4.98	<5.00	<0.426	mg/L	10	0.426	0.5	0.0426

Sample: 355106 - 70 Lagoon

Laboratory: Lubbock
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A
 QC Batch: 109584 Date Analyzed: 2014-02-24 Analyzed By: RR
 Prep Batch: 92628 Sample Preparation: 2014-02-24 Prepared By: PM

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Phosphorous		2	200	200	<0.0654	mg/L	10	0.0654	0.5	0.00654

Sample: 355106 - 70 Lagoon

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109997 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93014 Sample Preparation: 2014-02-26 Prepared By: JR

Comment: Use result for total Sulfur determination

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate	J	1	20.0	<25.0	<0.260	mg/L	10	0.260	2.5	0.026

Sample: 355106 - 70 Lagoon

Laboratory: Lubbock
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A
 QC Batch: 109630 Date Analyzed: 2014-02-25 Analyzed By: SAS
 Prep Batch: 92705 Sample Preparation: 2014-02-25 Prepared By: SAS

Comment: Use result for total Sulfur determination

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Sulfide			6.77	6.77	<0.462	mg/L	25	0.462	0.1	0.0185

Sample: 355106 - 70 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109511 Date Analyzed: 2014-02-20 Analyzed By: MC
 Prep Batch: 92604 Sample Preparation: 2014-02-20 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	7470	7470	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355106 - 70 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110163 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93145 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	546	546	<16.6	mg/L	10	16.6	10	1.66

Sample: 355107 - South Stormwater Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	6210	6210	<339	mg/L	500	339	2.5	0.678

Sample: 355107 - South Stormwater Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109729 Date Analyzed: 2014-02-19 Analyzed By: JR
 Prep Batch: 92784 Sample Preparation: 2014-02-19 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1	<0.426	<5.00	<0.426	mg/L	10	0.426	0.5	0.0426

Sample: 355107 - South Stormwater Lagoon

Laboratory: Lubbock
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A
 QC Batch: 109584 Date Analyzed: 2014-02-24 Analyzed By: RR
 Prep Batch: 92628 Sample Preparation: 2014-02-24 Prepared By: PM

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Phosphorous		2	84.1	84.1	<0.0654	mg/L	10	0.0654	0.5	0.00654

Sample: 355107 - South Stormwater Lagoon

Laboratory: El Paso
 Analysis: SO4 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109997 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93014 Sample Preparation: 2014-02-26 Prepared By: JR

Comment: Use result for total Sulfur determination

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfate		1	1130	1130	<1.30	mg/L	50	1.30	2.5	0.026

Sample: 355107 - South Stormwater Lagoon

Laboratory: Lubbock
 Analysis: Sulfide Analytical Method: SM 4500-S2 D Prep Method: N/A
 QC Batch: 109630 Date Analyzed: 2014-02-25 Analyzed By: SAS
 Prep Batch: 92705 Sample Preparation: 2014-02-25 Prepared By: SAS

Comment: Use result for total Sulfur determination

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Sulfide	J		0.584	<2.50	<0.462	mg/L	25	0.462	0.1	0.0185

Sample: 355107 - South Stormwater Lagoon

Laboratory: El Paso

Analysis: TDS

QC Batch: 109511

Prep Batch: 92604

Analytical Method: SM 2540C

Date Analyzed: 2014-02-20

Sample Preparation: 2014-02-20

Prep Method: N/A

Analyzed By: MC

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	23600	23600	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355107 - South Stormwater Lagoon

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110163

Prep Batch: 93145

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-03-13

Sample Preparation: 2014-03-13

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	65.8	65.8	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109511
Prep Batch: 92604Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20Analyzed 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: 109584
Prep Batch: 92628Date Analyzed: 2014-02-24
QC Preparation: 2014-02-21Analyzed By: RR
Prepared By: PM

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		2	<0.00654	mg/L	0.00654

Method Blank (1)

QC Batch: 109630
Prep Batch: 92705Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25Analyzed By: SAS
Prepared By: SAS

Parameter	F	C	Result	Units	Reporting Limits
Sulfide			<0.0185	mg/L	0.0185

Method Blank (1)

QC Batch: 109729
Prep Batch: 92784Date Analyzed: 2014-02-19
QC Preparation: 2014-02-19Analyzed 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: 109729
Prep Batch: 92784Date Analyzed: 2014-02-19
QC Preparation: 2014-02-19Analyzed 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: 109997
Prep Batch: 93014Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Sulfate		1	<0.0260	mg/L	0.026

Method Blank (1)QC Batch: 110163
Prep Batch: 93145Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 354899QC Batch: 109511
Prep Batch: 92604Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20Analyzed 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	2370	2370	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109511
Prep Batch: 92604Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	948	mg/L	1	1000	<2.50	95	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	978	mg/L	1	1000	<2.50	98	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: 109584
Prep Batch: 92628Date Analyzed: 2014-02-24
QC Preparation: 2014-02-21Analyzed By: RR
Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		2	0.487	mg/L	1	0.500	<0.00654	97	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		2	0.462	mg/L	1	0.500	<0.00654	92	85 - 115	5	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109630
Prep Batch: 92705Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25Analyzed By: SAS
Prepared By: SAS

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfide			0.390	mg/L	1	0.400	<0.0185	98	85 - 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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfide			0.393	mg/L	1	0.400	<0.0185	98	85 - 115	1	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109729
Prep Batch: 92784

Date Analyzed: 2014-02-19
QC Preparation: 2014-02-19

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.Rec.	Rec. Limit	
			Result	Units						
Chloride			1	24.4	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	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit	
			Result	Units								
Chloride			1	24.4	mg/L	1	25.0	<0.678	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: 109729
Prep Batch: 92784

Date Analyzed: 2014-02-19
QC Preparation: 2014-02-19

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	
			Result	Units						
Nitrate-N			1	4.91	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 Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit	
			Result	Units								
Nitrate-N			1	4.90	mg/L	1	5.00	<0.0426	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: 109997
Prep Batch: 93014

Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfate		1	25.4	mg/L	1	25.0	<0.0260	102	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfate		1	25.3	mg/L	1	25.0	<0.0260	101	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110163
Prep Batch: 93145

Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.66	87	85 - 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	44.8	mg/L	1	50.0	<1.66	90	85 - 115	3	20

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

Matrix Spike (xMS-1) Spiked Sample: 354774

QC Batch: 109584
Prep Batch: 92628

Date Analyzed: 2014-02-24
QC Preparation: 2014-02-21

Analyzed By: RR
Prepared By: PM

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Phosphorous		2	0.470	mg/L	1	0.500	<0.00654	94	75 - 125

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Phosphorous		2	0.484	mg/L	1	0.500	<0.00654	97	75 - 125	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: 355756QC Batch: 109630
Prep Batch: 92705Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25Analyzed By: SAS
Prepared By: SAS

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Sulfide			0.409	mg/L	1	0.400	<0.0185	102	80 - 120

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Sulfide			0.405	mg/L	1	0.400	<0.0185	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: 355102QC Batch: 109729
Prep Batch: 92784Date Analyzed: 2014-02-19
QC Preparation: 2014-02-19Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2080	mg/L	55.6	1390	616	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 Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2090	mg/L	55.6	1390	616	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: 355102QC Batch: 109729
Prep Batch: 92784Date Analyzed: 2014-02-19
QC Preparation: 2014-02-19Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	296	mg/L	55.6	278	22.6	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 Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	297	mg/L	55.6	278	22.6	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: 355814

QC Batch: 109997
Prep Batch: 93014

Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate		1	1750	mg/L	55.6	1390	316	103	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate		1	1750	mg/L	55.6	1390	316	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: 355106

QC Batch: 110163
Prep Batch: 93145

Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	966	mg/L	10	500	546	84	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
Total Kjeldahl Nitrogen - N		2	1020	mg/L	10	500	546	95	80 - 120	5	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: 109584

Date Analyzed: 2014-02-24

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.06	101	90 - 110	2014-02-24

Standard (CCV-1)

QC Batch: 109584

Date Analyzed: 2014-02-24

Analyzed By: RR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	4.77	95	90 - 110	2014-02-24

Standard (ICV-1)

QC Batch: 109630

Date Analyzed: 2014-02-25

Analyzed By: SAS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide			mg/L	0.400	0.395	99	85 - 115	2014-02-25

Standard (CCV-1)

QC Batch: 109630

Date Analyzed: 2014-02-25

Analyzed By: SAS

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfide			mg/L	0.400	0.399	100	85 - 115	2014-02-25

Standard (CCV-1)

QC Batch: 109729

Date Analyzed: 2014-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-02-19

Standard (CCV-1)

QC Batch: 109729

Date Analyzed: 2014-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.02	100	90 - 110	2014-02-19

Standard (CCV-2)

QC Batch: 109729

Date Analyzed: 2014-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-02-19

Standard (CCV-2)

QC Batch: 109729

Date Analyzed: 2014-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.04	101	90 - 110	2014-02-19

Standard (CCV-3)

QC Batch: 109729

Date Analyzed: 2014-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-02-19

Standard (CCV-3)

QC Batch: 109729

Date Analyzed: 2014-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.06	101	90 - 110	2014-02-19

Standard (CCV-4)

QC Batch: 109729

Date Analyzed: 2014-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	25.1	100	90 - 110	2014-02-19

Standard (CCV-4)

QC Batch: 109729

Date Analyzed: 2014-02-19

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.10	102	90 - 110	2014-02-19

Standard (CCV-1)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.6	98	90 - 110	2014-02-26

Standard (CCV-2)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	24.5	98	90 - 110	2014-02-26

Standard (CCV-3)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		1	mg/L	25.0	25.0	100	90 - 110	2014-02-26

Standard (ICV-1)

QC Batch: 110163

Date Analyzed: 2014-03-13

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.32	106	85 - 115	2014-03-13

Standard (CCV-1)

QC Batch: 110163

Date Analyzed: 2014-03-13

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.62	92	85 - 115	2014-03-13

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
SO4 (IC)	E 300.0	water	Dionex IC	Sulfate	0.0694	Pass
Sulfide	SM 4500-S2 D	water	Spectrophotometer	Sulfide	0.0500	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.
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

Phone #: 915-859-8150
 Cell #: _____
 Fax #: _____
 E-mail: yayala@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): Mountain View Dairy, P. O. Box 345, Mesquite, NM 88048
Project #: 435921
Project Name: Mountain View Dairy
Sampler Signature: *[Signature]*

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH			ICE
355102	70-01	1	2.50	X				X				X	2-19-14	10:33
2	70-01	1		X				X				X	10:32	
103-1	70-02	1		X				X				X	11:15	
2	70-02	1		X				X				X	11:15	
104-1	70-03	1		X				X				X	9:03	
2	70-03	1		X				X				X	9:03	
105-1	70-04	1		X				X				X	13:34	
2	70-04	1		X				X				X	13:34	
126-1	70 Lagoon	1		X				X				X	11:50	
2	70 Lagoon	1		X				X				X	11:50	
3	70 Lagoon	1		X				X				X	11:50	
4	70 Lagoon	1		X				X				X	11:50	
	North-Stormwater-Lagoon	1		X				X				X		
	North-Stormwater-Lagoon	1		X				X				X		
	North-Stormwater-Lagoon	1		X				X				X		
	North-Stormwater-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)	
Phosphorus SM 4500	
Nitrates EPA 300	
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	
Holds	

Relinquished By: *[Signature]* Date: 2-19-14 1630
 Received By: *[Signature]* Date: 2-19-14 1630
 Relinquished By: *[Signature]* Date: 2-19-14 1630
 Received By: *[Signature]* Date: 2-19-14 1630

Lab Use Only
 Intaco 1/N
 Headspace Y 1/N
 Temp 311 C 20
 Log-in Review _____

Remarks: *[Handwritten notes]*

Dry Weight Seals Required
 TRRP Report Required

[Handwritten Signature]

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 14021935

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

Company Name: TraceAnalysis, Inc.
 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
 Project #: 435421
 Project Name: Mountain View Dairy
 Sampler Signature: [Signature]

ANALYSIS REQUEST

MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Phosphorus SM 4500	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	X
Turn Around Time	
Hold	

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				DATE	SAMPLING TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄			NaOH
355107-1	South Stormwater Lagoon	1	250	X				X				2-14-14 11:00	
-2	South Stormwater Lagoon	1	↓	X						X		↓	
-3	South Stormwater Lagoon	1	↓	X						X		↓	
-4	South Stormwater Lagoon	1	↓	X				X				↓	

Relinquished By: [Signature] Date: 2-14-14 Time: 15:30

Relinquished By: [Signature] Date: 2-19-14 Time: 16:30

Received By: [Signature] Date: 2-19-14 Time: 14:05

Received at Laboratory By: [Signature] Date: 2-19-14 Time: 14:05

Lab Use Only
 Intact (X) N
 Headspace Y / N
 Temp 17 / 20
 Log-in Review _____

Remarks:
By JBL 1
 Dry Weight Basis Required
 TRRP Report Required CAN, TD



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Isaac Dominguez
Dominguez Dairy #1
13950 Stern Drive
P.O. Box 21
Mesquite, NM, 88048

Report Date: March 17, 2014

Work Order: 14022534



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
355815	624-01	water	2014-02-25	10:59	2014-02-25
355816	624-02	water	2014-02-25	12:13	2014-02-25
355817	624 Lagoon	water	2014-02-25	09:50	2014-02-25

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

This report consists of a total of 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

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Case Narrative

Samples for project Dominguez Dairy #1 were received by TraceAnalysis, Inc. on 2014-02-25 and assigned to work order 14022534. Samples for work order 14022534 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	93029	2014-02-26 at 19:05	110015	2014-02-26 at 19:05
NO3 (IC)	E 300.0	93029	2014-02-26 at 19:05	110015	2014-02-26 at 19:05
TDS	SM 2540C	92776	2014-02-27 at 12:00	109715	2014-02-27 at 12:00
TKN	SM 4500-NH3 B,C	93174	2014-03-14 at 10:45	110199	2014-03-14 at 16:00

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 14022534 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: 355815 - 624-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	950	950	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355815 - 624-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	18.6	18.6	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 355815 - 624-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109715 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92776 Sample Preparation: 2014-02-27 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3080	3080	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355815 - 624-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110199 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93174 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355816 - 624-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	965	965	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355816 - 624-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	12.4	12.4	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 355816 - 624-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109715 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92776 Sample Preparation: 2014-02-27 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	3320	3320	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355816 - 624-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110199 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93174 Sample Preparation: 2014-03-14 Prepared By: CF

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: 355817 - 624 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	3830	3830	<67.8	mg/L	100	67.8	2.5	0.678

Sample: 355817 - 624 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110015 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93029 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1	<0.374	<5.00	<0.374	mg/L	10	0.374	0.5	0.0374

Sample: 355817 - 624 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109715 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92776 Sample Preparation: 2014-02-27 Prepared By: MC

continued . . .

sample 355817 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	18800	18800	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355817 - 624 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110199 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93174 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	189	189	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109715
Prep Batch: 92776Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27Analyzed 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: 110015
Prep Batch: 93029Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed 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: 110015
Prep Batch: 93029Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110199
Prep Batch: 93174Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: CF
Prepared By: CF

Report Date: March 17, 2014

Work Order: 14022534
Dominguez Dairy #1

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 356058

QC Batch: 109715
Prep Batch: 92776

Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3040	3030	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109715
Prep Batch: 92776Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	978	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	991	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: 110015
Prep Batch: 93029Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	26.2	mg/L	1	25.0	<0.678	105	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	26.3	mg/L	1	25.0	<0.678	105	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110015
Prep Batch: 93029Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.27	mg/L	1	5.00	<0.0374	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	302	mg/L	55.6	278	9.28	105	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	304	mg/L	55.6	278	9.28	106	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: 355817

QC Batch: 110199
 Prep Batch: 93174

Date Analyzed: 2014-03-14
 QC Preparation: 2014-03-14

Analyzed By: CF
 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	602	mg/L	10	500	189	83	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
Total Kjeldahl Nitrogen - N		2	658	mg/L	10	500	189	94	80 - 120	9	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: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-26

Standard (CCV-1)

QC Batch: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.92	98	90 - 110	2014-02-26

Standard (CCV-2)

QC Batch: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-02-26

Standard (CCV-2)

QC Batch: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-02-26

Standard (CCV-3)

QC Batch: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-02-26

Standard (CCV-3)

QC Batch: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-02-26

Standard (CCV-4)

QC Batch: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-26

Standard (CCV-4)

QC Batch: 110015

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-02-26

Standard (ICV-1)

QC Batch: 110199

Date Analyzed: 2014-03-14

Analyzed By: CF

Report Date: March 17, 2014

Work Order: 14022534
Dominguez Dairy #1

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (CCV-1)

QC Batch: 110199

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

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.

14022534

TraceAnalysis, Inc.
Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

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 #: 915-859-8150
Fax #: 915-859-8150
E-mail: vajala@dhpump.com
Project #: 435913
Project Name: Dominguez Dairy #1
Project Location (including state): Dominguez Dairy #1, 13950 Stern Dr., Mesquite, NM
Sampler Signature: *JLV*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		
				WATER	AIR	SOIL	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
355815	624-01	1		X				X				X	2-25-14	1059
1-2	624-01	1		X				X				X	2-25-14	1059
1-816	624-02	1		X				X				X	2-25-14	1213
1-1	624-02	1		X				X				X	2-25-14	1213
1	624-04	1		X				X				X		
1	624-04	1		X				X				X		
1	624-05	1		X				X				X		
1	624-05	1		X				X				X		
1	624-06	1		X				X				X		
1	624-06	1		X				X				X		
1	624-07	1		X				X				X		
1	624-07	1		X				X				X		
1	624-08	1		X				X				X		
1	624-08	1		X				X				X		
355815	624 Lagoon	1		X				X				X	2-25-14	9:50
1-2	624 Lagoon	1		X				X				X	2/25/14	9:50

Relinquished By: *JLV* Date: 2-25-14 Time: 1435
 Received By: *Dmyd A* Date: 2-25-14 Time: 14:35
 Relinquished By: *D-7 da H* Date: 2-25-14 Time: 16:36
 Received at Laboratory By: *Alice TA* Date: 2/26/14 Time: 9:00

Page 1 of 1
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 14022534

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

Remarks: 14
 JS: 485910336
 Dry Weight Basis Required
 TRRP Report Required
 Lab Use Only
 Intact N
 Headspace Y / N
 Temp 18-1 / 2/2
 Log-in Review Y
 2-25-14



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: March 17, 2014

Work Order: 14022533



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
355814	74-5	water	2014-02-25	14:03	2014-02-25

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

This report consists of a total of 14 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

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

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Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2014-02-25 and assigned to work order 14022533. Samples for work order 14022533 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	93014	2014-02-26 at 12:13	109997	2014-02-26 at 12:13
NO3 (IC)	E 300.0	93014	2014-02-26 at 12:13	109997	2014-02-26 at 12:13
TDS	SM 2540C	92776	2014-02-27 at 12:00	109715	2014-02-27 at 12:00
TKN	SM 4500-NH3 B,C	93174	2014-03-14 at 10:45	110199	2014-03-14 at 16:00

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 14022533 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: 355814 - 74-5

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109997 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93014 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	506	506	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355814 - 74-5

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109997 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93014 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	316	316	<0.374	mg/L	10	0.374	0.5	0.0374

Sample: 355814 - 74-5

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109715 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92776 Sample Preparation: 2014-02-27 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	1960	1960	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355814 - 74-5

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110199 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93174 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109715
Prep Batch: 92776Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27Analyzed 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: 109997
Prep Batch: 93014Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed 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: 109997
Prep Batch: 93014Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110199
Prep Batch: 93174Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: CF
Prepared By: CF

Report Date: March 17, 2014

Work Order: 14022533
Buena Vista Dairy #2

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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: 356058

QC Batch: 109715
Prep Batch: 92776

Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3040	3030	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109715
Prep Batch: 92776Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	978	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	991	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: 109997
Prep Batch: 93014Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.2	mg/L	1	25.0	<0.678	101	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	25.1	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: 109997
Prep Batch: 93014Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.06	mg/L	1	5.00	<0.0374	101	90 - 110

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	302	mg/L	55.6	278	25.2	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	300	mg/L	55.6	278	25.2	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: 355817

QC Batch: 110199
Prep Batch: 93174

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	602	mg/L	10	500	189	83	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
Total Kjeldahl Nitrogen - N		2	658	mg/L	10	500	189	94	80 - 120	9	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: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.3	97	90 - 110	2014-02-26

Standard (CCV-1)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-02-26

Standard (CCV-2)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2014-02-26

Standard (CCV-2)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2014-02-26

Standard (CCV-3)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-26

Standard (CCV-3)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.92	98	90 - 110	2014-02-26

Standard (ICV-1)

QC Batch: 110199

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (CCV-1)

QC Batch: 110199

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

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.



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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: March 17, 2014

Work Order: 14022434



Project Location: Gonzalez Farmes 14310 Stern Dr. Mesquite, NM
 Project Name: Gonzalez Dairy Inc.
 Project Number: 435915

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
355676	177-03	water	2014-02-24	10:00	2014-02-24
355677	177-04	water	2014-02-24	11:36	2014-02-24
355678	177-05	water	2014-02-24	12:46	2014-02-24
355679	177-07 R	water	2014-02-24	13:54	2014-02-24

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

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Gonzalez Dairy Inc. were received by TraceAnalysis, Inc. on 2014-02-24 and assigned to work order 14022434. Samples for work order 14022434 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	92922	2014-02-25 at 19:57	109883	2014-02-25 at 19:57
NO3 (IC)	E 300.0	92922	2014-02-25 at 19:57	109883	2014-02-25 at 19:57
TDS	SM 2540C	92709	2014-02-25 at 12:15	109635	2014-02-25 at 12:15
TKN	SM 4500-NH3 B,C	93173	2014-03-14 at 10:45	110198	2014-03-14 at 16:00
TKN	SM 4500-NH3 B,C	93174	2014-03-14 at 10:45	110199	2014-03-14 at 16:00

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 14022434 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: 355676 - 177-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109883 Date Analyzed: 2014-02-25 Analyzed By: JR
 Prep Batch: 92922 Sample Preparation: 2014-02-25 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	1160	1160	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355676 - 177-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109883 Date Analyzed: 2014-02-25 Analyzed By: JR
 Prep Batch: 92922 Sample Preparation: 2014-02-25 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	15.6	15.6	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355676 - 177-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109635 Date Analyzed: 2014-02-25 Analyzed By: MC
 Prep Batch: 92709 Sample Preparation: 2014-02-25 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3900	3900	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355676 - 177-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110198 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93173 Sample Preparation: 2014-03-14 Prepared By: CF

Report Date: March 17, 2014
435915

Work Order: 14022434
Gonzalez Dairy Inc.

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Gonzalez Farmes 14310 Stern Dr. Mesquite, NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	2.10	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355677 - 177-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109883 Date Analyzed: 2014-02-25 Analyzed By: JR
 Prep Batch: 92922 Sample Preparation: 2014-02-25 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1290	1290	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355677 - 177-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109883 Date Analyzed: 2014-02-25 Analyzed By: JR
 Prep Batch: 92922 Sample Preparation: 2014-02-25 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	17.6	17.6	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355677 - 177-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109635 Date Analyzed: 2014-02-25 Analyzed By: MC
 Prep Batch: 92709 Sample Preparation: 2014-02-25 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	4020	4020	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355677 - 177-04

Report Date: March 17, 2014
435915

Work Order: 14022434
Gonzalez Dairy Inc.

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Gonzalez Farmes 14310 Stern Dr. Mesquite, NM

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 110198 Date Analyzed: 2014-03-14 Analyzed By: CF
Prep Batch: 93173 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355678 - 177-05

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109883 Date Analyzed: 2014-02-25 Analyzed By: JR
Prep Batch: 92922 Sample Preparation: 2014-02-25 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	1600	1600	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355678 - 177-05

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109883 Date Analyzed: 2014-02-25 Analyzed By: JR
Prep Batch: 92922 Sample Preparation: 2014-02-25 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	26.6	26.6	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355678 - 177-05

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 109635 Date Analyzed: 2014-02-25 Analyzed By: MC
Prep Batch: 92709 Sample Preparation: 2014-02-25 Prepared By: MC

continued . . .

sample 355678 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	4460	4460	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355678 - 177-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110199 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93174 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355679 - 177-07 R

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109883 Date Analyzed: 2014-02-25 Analyzed By: JR
 Prep Batch: 92922 Sample Preparation: 2014-02-25 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	903	903	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355679 - 177-07 R

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109883 Date Analyzed: 2014-02-25 Analyzed By: JR
 Prep Batch: 92922 Sample Preparation: 2014-02-25 Prepared By: JR

Report Date: March 17, 2014
435915

Work Order: 14022434
Gonzalez Dairy Inc.

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Gonzalez Farmes 14310 Stern Dr. Mesquite, NM

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	22.7	22.7	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355679 - 177-07 R

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109635 Date Analyzed: 2014-02-25 Analyzed By: MC
 Prep Batch: 92709 Sample Preparation: 2014-02-25 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3080	3080	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355679 - 177-07 R

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110199 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93174 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109635
Prep Batch: 92709

Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25

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: 109883
Prep Batch: 92922

Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25

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: 109883
Prep Batch: 92922

Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25

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: 110198
Prep Batch: 93173

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Report Date: March 17, 2014
435915

Work Order: 14022434
Gonzalez Dairy Inc.

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Gonzalez Farmes 14310 Stern Dr. Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Method Blank (1)

QC Batch: 110199
Prep Batch: 93174

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 355699

QC Batch: 109635
Prep Batch: 92709

Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1920	1860	mg/L	1	3	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109635
Prep Batch: 92709

Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	953	mg/L	1	1000	<2.50	95	90 - 110	6	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: 109883
Prep Batch: 92922

Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	23.7	mg/L	1	25.0	<0.678	95	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	23.6	mg/L	1	25.0	<0.678	94	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 109883
Prep Batch: 92922

Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.77	mg/L	1	5.00	<0.0426	95	90 - 110

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

Report Date: March 17, 2014
435915

Work Order: 14022434
Gonzalez Dairy Inc.

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Gonzalez Farmes 14310 Stern Dr. Mesquite, NM

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.74	mg/L	1	5.00	<0.0426	95	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: 110198
Prep Batch: 93173

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 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	45.5	mg/L	1	50.0	<1.66	91	85 - 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: 110199
Prep Batch: 93174

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	85 - 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	44.1	mg/L	1	50.0	<1.66	88	85 - 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: 355560

QC Batch: 109883
Prep Batch: 92922

Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25

Analyzed By: JR
Prepared By: JR

Report Date: March 17, 2014
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Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1410	mg/L	55.6	1390	40.2	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1410	mg/L	55.6	1390	40.2	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: 355560

QC Batch: 109883
Prep Batch: 92922

Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	278	mg/L	55.6	278	4.31	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	279	mg/L	55.6	278	4.31	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: 355257

QC Batch: 110198
Prep Batch: 93173

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	693	mg/L	10	500	259	87	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
Total Kjeldahl Nitrogen - N		2	721	mg/L	10	500	259	92	80 - 120	4	20

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

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435915

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Gonzalez Dairy Inc.

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Matrix Spike (MS-1) Spiked Sample: 355817

QC Batch: 110199
Prep Batch: 93174

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	602	mg/L	10	500	189	83	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
Total Kjeldahl Nitrogen - N		2	658	mg/L	10	500	189	94	80 - 120	9	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: 109883

Date Analyzed: 2014-02-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-25

Standard (CCV-1)

QC Batch: 109883

Date Analyzed: 2014-02-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-02-25

Standard (CCV-2)

QC Batch: 109883

Date Analyzed: 2014-02-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-02-25

Standard (CCV-2)

QC Batch: 109883

Date Analyzed: 2014-02-25

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-02-25

Report Date: March 17, 2014
435915

Work Order: 14022434
Gonzalez Dairy Inc.

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Gonzalez Farmes 14310 Stern Dr. Mesquite, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (CCV-1)

QC Batch: 110198

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (ICV-1)

QC Batch: 110199

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (CCV-1)

QC Batch: 110199

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

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.

14022A34

TraceAnalysis, Inc.

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

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
Page 1 of 1

Company Name:

D&H Petroleum & Environmental Services

Address: (Street, City, Zip)

1221 Tower Trail Ln, El Paso TX 79907

Contact Person:

Victor Ayala

Invoice to (if different from above):

Gonzalez Dairy, PO Box 199, Mesquite, NM 88048

Project #:

435915

Project Name:

Gonzalez Dairy Inc.

Project Location (including state):

Gonzalez Dairy, 14310 Stern Dr., Mesquite, NM

Sampler Signature: *Juls*

Phone #: 915-859-8150

Cell #:

Fax #:

E-mail: vajala@dhpump.com

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	
Nitrate EPA 300	X
TKN SM 4500 NORGC	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	
Hold	

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING				
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME	
177-01		1		X				X				X				
177-01		1		X				X				X				
177-02		1		X				X				X				
177-02		1		X				X				X				
355676-1		1		X				X				X		2-24-14	10:00	
177-03		1		X				X				X			10:00	
177-03		1		X				X				X			11:34	
355677-1		1		X				X				X			11:36	
177-04		1		X				X				X			12:46	
177-05		1		X				X				X			12:46	
177-05		1		X				X				X				
177-06		1		X				X				X				
177-06		1		X				X				X				
355679-1		1		X				X				X			13:54	
177-07 R		1		X				X				X			13:54	
177-07 R		1		X				X				X				

Relinquished By: *Juls* Date: 2-24-14 Time: 14:20
 Received By: *MRC* Date: 2-24-14 Time: 19:20
 Relinquished By: *MRC* Date: 2-24-14 16:30
 Received at Laboratory By: *Buendia TA* Date: 2/25/14 9:05
 Log-in Review: *2/24/14*
 Lab Use Only: Initial N
 Headspace: Y N
 Temp:
 Dry Weight Basis Required:
 TRRP Report Required:
 Remarks: on ICE
 TRN analysis w/ Jubbok
 250-48590333
 1/2/10



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

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

Report Date: March 17, 2014

Work Order: 14022123



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
355499	Irr Well LRG-00457	water	2014-02-21	09:15	2014-02-21

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

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

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

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Case Narrative

Samples for project Mountain View Dairy were received by TraceAnalysis, Inc. on 2014-02-21 and assigned to work order 14022123. Samples for work order 14022123 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
NO3 (IC)	E 300.0	92936	2014-02-21 at 19:09	109905	2014-02-21 at 19:09
TKN	SM 4500-NH3 B,C	93173	2014-03-14 at 10:45	110198	2014-03-14 at 16:00

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 14022123 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: 355499 - Irr Well LRG-00457

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109905 Date Analyzed: 2014-02-21 Analyzed By: JR
 Prep Batch: 92936 Sample Preparation: 2014-02-21 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	13.5	13.5	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355499 - Irr Well LRG-00457

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110198 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93173 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109905
Prep Batch: 92936Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21Analyzed 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: 110198
Prep Batch: 93173Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109905
Prep Batch: 92936Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	5.02	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	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.01	mg/L	1	5.00	<0.0426	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: 110198
Prep Batch: 93173Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 115

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

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.66	91	85 - 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: 355242

QC Batch: 109905
Prep Batch: 92936Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	319	mg/L	62.5	312	8.62	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		Dil.	Spike	Matrix	Rec.		RPD	
			Result	Units		Amount	Result	Rec.	Limit	RPD	Limit
Nitrate-N		1	323	mg/L	62.5	312	8.62	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: 355257

QC Batch: 110198
Prep Batch: 93173

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike	Matrix	Rec.		RPD	
			Result	Units		Amount	Result	Rec.	Limit	RPD	Limit
Total Kjeldahl Nitrogen - N		2	693	mg/L	10	500	259	87	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	Matrix	Rec.		RPD	
			Result	Units		Amount	Result	Rec.	Limit	RPD	Limit
Total Kjeldahl Nitrogen - N		2	721	mg/L	10	500	259	92	80 - 120	4	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-02-21

Standard (CCV-2)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2014-02-21

Standard (CCV-3)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2014-02-21

Standard (ICV-1)

QC Batch: 110198

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (CCV-1)

QC Batch: 110198

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-12-3	El Paso
2	NELAP	T104704219-13-9	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

Joe Gonzalez
 Gonzalez Farmes
 14310 Stern Drive
 P.O. Box 199
 Mesquite, NM, 88048

Report Date: March 17, 2014

Work Order: 14022122



DP: 177
 Project Location: 14310 Stern Dr., Mesquite, NM
 Project Name: Gonzalez Farmes

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
355497	177-01	water	2014-02-21	11:02	2014-02-21
355498	177-02	water	2014-02-21	11:40	2014-02-21

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

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

Notes:

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

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

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Case Narrative

Samples for project Gonzalez Farmes were received by TraceAnalysis, Inc. on 2014-02-21 and assigned to work order 14022122. Samples for work order 14022122 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	92936	2014-02-21 at 19:09	109905	2014-02-21 at 19:09
NO3 (IC)	E 300.0	92936	2014-02-21 at 19:09	109905	2014-02-21 at 19:09
TDS	SM 2540C	92709	2014-02-25 at 12:15	109635	2014-02-25 at 12:15
TKN	SM 4500-NH3 B,C	93173	2014-03-14 at 10:45	110198	2014-03-14 at 16:00

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 14022122 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: 355497 - 177-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109905 Date Analyzed: 2014-02-21 Analyzed By: JR
 Prep Batch: 92936 Sample Preparation: 2014-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1310	1310	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355497 - 177-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109905 Date Analyzed: 2014-02-21 Analyzed By: JR
 Prep Batch: 92936 Sample Preparation: 2014-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	33.7	33.7	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355497 - 177-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109635 Date Analyzed: 2014-02-25 Analyzed By: MC
 Prep Batch: 92709 Sample Preparation: 2014-02-25 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	3870	3870	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355497 - 177-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110198 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93173 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355498 - 177-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109905 Date Analyzed: 2014-02-21 Analyzed By: JR
 Prep Batch: 92936 Sample Preparation: 2014-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	725	725	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355498 - 177-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109905 Date Analyzed: 2014-02-21 Analyzed By: JR
 Prep Batch: 92936 Sample Preparation: 2014-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	67.9	67.9	<0.426	mg/L	10	0.426	0.5	0.0426

Sample: 355498 - 177-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109635 Date Analyzed: 2014-02-25 Analyzed By: MC
 Prep Batch: 92709 Sample Preparation: 2014-02-25 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	3180	3180	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355498 - 177-02

Report Date: March 17, 2014

Work Order: 14022122
Gonzalez Farmes

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14310 Stern Dr., Mesquite, NM

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 110198 Date Analyzed: 2014-03-14 Analyzed By: CF
Prep Batch: 93173 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109635
Prep Batch: 92709Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25Analyzed 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: 109905
Prep Batch: 92936Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.678

Method Blank (1)

QC Batch: 109905
Prep Batch: 92936Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21Analyzed 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: 110198
Prep Batch: 93173Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: CF
Prepared By: CF

Report Date: March 17, 2014

Work Order: 14022122
Gonzalez Farmes

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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: 355699

QC Batch: 109635

Date Analyzed: 2014-02-25

Analyzed By: MC

Prep Batch: 92709

QC Preparation: 2014-02-25

Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1920	1860	mg/L	1	3	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109635
Prep Batch: 92709Date Analyzed: 2014-02-25
QC Preparation: 2014-02-25Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	953	mg/L	1	1000	<2.50	95	90 - 110	6	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: 109905
Prep Batch: 92936Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.7	mg/L	1	25.0	<0.678	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.7	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: 109905
Prep Batch: 92936Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.02	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 Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.01	mg/L	1	5.00	<0.0426	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: 110198
Prep Batch: 93173

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 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	45.5	mg/L	1	50.0	<1.66	91	85 - 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: 355242

QC Batch: 109905
Prep Batch: 92936

Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1670	mg/L	62.5	1560	114	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							
Chloride		1	1670	mg/L	62.5	1560	114	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: 355242

QC Batch: 109905
Prep Batch: 92936

Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	319	mg/L	62.5	312	8.62	99	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	323	mg/L	62.5	312	8.62	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: 355257

QC Batch: 110198
Prep Batch: 93173

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	693	mg/L	10	500	259	87	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
Total Kjeldahl Nitrogen - N		2	721	mg/L	10	500	259	92	80 - 120	4	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	23.9	96	90 - 110	2014-02-21

Standard (CCV-1)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-02-21

Standard (CCV-2)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.1	96	90 - 110	2014-02-21

Standard (CCV-2)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2014-02-21

Standard (CCV-3)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.3	97	90 - 110	2014-02-21

Standard (CCV-3)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2014-02-21

Standard (ICV-1)

QC Batch: 110198

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (CCV-1)

QC Batch: 110198

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

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.



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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
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Report Date: March 17, 2014

Work Order: 14022044



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
355262	340-1	water	2014-02-20	10:12	2014-02-20
355263	340-2	water	2014-02-20	09:20	2014-02-20

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

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

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

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Case Narrative

Samples for project Bright Star Dairy were received by TraceAnalysis, Inc. on 2014-02-20 and assigned to work order 14022044. Samples for work order 14022044 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	92786	2014-02-20 at 03:12	109730	2014-02-20 at 03:12
Chloride (IC)	E 300.0	92936	2014-02-21 at 19:09	109905	2014-02-21 at 19:09
NO3 (IC)	E 300.0	92786	2014-02-20 at 03:12	109730	2014-02-20 at 03:12
NO3 (IC)	E 300.0	92936	2014-02-21 at 19:09	109905	2014-02-21 at 19:09
TDS	SM 2540C	92653	2014-02-24 at 10:50	109573	2014-02-24 at 10:50
TKN	SM 4500-NH3 B,C	93173	2014-03-14 at 10:45	110198	2014-03-14 at 16:00

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 14022044 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: 355262 - 340-1

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
 Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	564	564	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355262 - 340-1

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
 Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	29.1	29.1	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355262 - 340-1

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109573 Date Analyzed: 2014-02-24 Analyzed By: MC
 Prep Batch: 92653 Sample Preparation: 2014-02-24 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2800	2800	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355262 - 340-1

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110198 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93173 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	2.80	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355263 - 340-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109905 Date Analyzed: 2014-02-21 Analyzed By: JR
 Prep Batch: 92936 Sample Preparation: 2014-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	806	806	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355263 - 340-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109905 Date Analyzed: 2014-02-21 Analyzed By: JR
 Prep Batch: 92936 Sample Preparation: 2014-02-21 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	86.8	86.8	<0.426	mg/L	10	0.426	0.5	0.0426

Sample: 355263 - 340-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109573 Date Analyzed: 2014-02-24 Analyzed By: MC
 Prep Batch: 92653 Sample Preparation: 2014-02-24 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	3080	3080	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355263 - 340-2

Report Date: March 17, 2014

Work Order: 14022044
Bright Star Dairy

Page Number: 7 of 20
13250 Stern Dr, Mesquite, NM

Laboratory:	Lubbock	Analytical Method:	SM 4500-NH3 B,C	Prep Method:	N/A
Analysis:	TKN	Date Analyzed:	2014-03-14	Analyzed By:	CF
QC Batch:	110198	Sample Preparation:	2014-03-14	Prepared By:	CF
Prep Batch:	93173				

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: 109573
Prep Batch: 92653Date Analyzed: 2014-02-24
QC Preparation: 2014-02-24Analyzed 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: 109730
Prep Batch: 92786Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.678

Method Blank (1)

QC Batch: 109730
Prep Batch: 92786Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.152	mg/L	0.0426

Method Blank (1)

QC Batch: 109905
Prep Batch: 92936Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.678

Method Blank (1)QC Batch: 109905
Prep Batch: 92936Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21Analyzed 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: 110198
Prep Batch: 93173Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 355253QC Batch: 109573
Prep Batch: 92653Date Analyzed: 2014-02-24
QC Preparation: 2014-02-24Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2440	2490	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109573
Prep Batch: 92653Date Analyzed: 2014-02-24
QC Preparation: 2014-02-24Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	900	mg/L	1	1000	<2.50	90	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	961	mg/L	1	1000	<2.50	96	90 - 110	7	10

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

Laboratory Control Spike (LCS-1)

QC Batch: 109730
Prep Batch: 92786Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.7	mg/L	1	25.0	<0.678	103	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	25.6	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: 109730
Prep Batch: 92786Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.13	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	45.5	mg/L	1	50.0	<1.66	91	85 - 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: 355255

QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
Prep Batch: 92786 QC Preparation: 2014-02-20 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2040	mg/L	55.6	1390	404	118	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2040	mg/L	55.6	1390	404	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: 355255

QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
Prep Batch: 92786 QC Preparation: 2014-02-20 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	333	mg/L	55.6	278	13.6	115	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	333	mg/L	55.6	278	13.6	115	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: 355242QC Batch: 109905
Prep Batch: 92936Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1670	mg/L	62.5	1560	114	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1670	mg/L	62.5	1560	114	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: 355242QC Batch: 109905
Prep Batch: 92936Date Analyzed: 2014-02-21
QC Preparation: 2014-02-21Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	319	mg/L	62.5	312	8.62	99	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	323	mg/L	62.5	312	8.62	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: 355257QC Batch: 110198
Prep Batch: 93173Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	693	mg/L	10	500	259	87	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
Total Kjeldahl Nitrogen - N		2	721	mg/L	10	500	259	92	80 - 120	4	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.2	97	90 - 110	2014-02-20

Standard (CCV-1)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-02-20

Standard (CCV-2)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-20

Standard (CCV-2)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-02-20

Standard (CCV-3)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-02-20

Standard (CCV-3)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-02-20

Standard (CCV-4)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-20

Standard (CCV-4)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-02-20

Standard (CCV-1)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	23.9	96	90 - 110	2014-02-21

Standard (CCV-1)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.86	97	90 - 110	2014-02-21

Standard (CCV-2)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.1	96	90 - 110	2014-02-21

Standard (CCV-2)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2014-02-21

Standard (CCV-3)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.3	97	90 - 110	2014-02-21

Standard (CCV-3)

QC Batch: 109905

Date Analyzed: 2014-02-21

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2014-02-21

Standard (ICV-1)

QC Batch: 110198

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (CCV-1)

QC Batch: 110198

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

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.

Address: (Street, City, Zip) 1221 Tower Trail Ln., El Paso, Texas 79907
 Contact Person: Victor Ayala E-mail: vayala@dhpump.com

Invoice to (if different from above): Bright Star Dairy, P.O. Box 167, Mesquite, NM 88048
 Project #: _____

Project Name: Bright Star Dairy
 Sampler Signature: *Tom Lancaster*

Project Location (including state): Bright Star Dairy, 13520 Stern Drive, Mesquite, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE		
355262	340-1	1		X				X				2/20/14	10:12
L ↓	340-1	1		X				X				2/20/14	10:12
L ↓	340-2	1		X				X				2/20/14	9:20
L ↓	340-2	1		X				X				2/20/14	9:20
	70786/340	1		X				X					
	70786/340	1		X				X					
	667340	1		X				X					
	667340	1		X				X					
	340 Lagoon	1		X				X					
	340 Lagoon	1		X				X					
	340 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	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
Other - Phosphorus (EPA 6010B)	

LAB Order ID # 14022044

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Page 1 of 1

Remarks: *1CE*
emayyin

Lab Use Only
 Intac / N
 Headspace / N
 Temp 2/2
 Log-in Review

2-20-14 LS 48590329

Relinquished By: <i>Tom Lancaster</i>	Date: 2/20/14	Time: 15:01	Received By: <i>D & H</i>	Date: 2-20-14	Time: 15:01
Relinquished By: <i>D & H</i>	Date: 2-20-14	Time: 16:30	Received at Laboratory By: <i>ATaylor</i>	Date: 1/23/2014	Time: 2:02



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

(Corrected Report)

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

Report Date: March 17, 2014

Work Order: 14022533



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
355814	74-5	water	2014-02-25	14:03	2014-02-25

Report Corrections (Work Order 14022533)

- 3/17/14: Corrected dilution factor for 355814 for Nitrate.

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.

Michael Abel

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

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Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2014-02-25 and assigned to work order 14022533. Samples for work order 14022533 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	93014	2014-02-26 at 12:13	109997	2014-02-26 at 12:13
NO3 (IC)	E 300.0	93014	2014-02-26 at 12:13	109997	2014-02-26 at 12:13
TDS	SM 2540C	92776	2014-02-27 at 12:00	109715	2014-02-27 at 12:00
TKN	SM 4500-NH3 B,C	93174	2014-03-14 at 10:45	110199	2014-03-14 at 16:00

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 14022533 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: 355814 - 74-5

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109997 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93014 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	506	506	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355814 - 74-5

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109997 Date Analyzed: 2014-02-26 Analyzed By: JR
 Prep Batch: 93014 Sample Preparation: 2014-02-26 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	18.3	18.3	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 355814 - 74-5

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109715 Date Analyzed: 2014-02-27 Analyzed By: MC
 Prep Batch: 92776 Sample Preparation: 2014-02-27 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	1960	1960	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355814 - 74-5

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110199 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93174 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109715
Prep Batch: 92776Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27Analyzed 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: 109997
Prep Batch: 93014Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed 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: 109997
Prep Batch: 93014Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110199
Prep Batch: 93174Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: CF
Prepared By: CF

Report Date: March 17, 2014

Work Order: 14022533
Buena Vista Dairy #2

Page Number: 8 of 15
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: 356058

QC Batch: 109715
Prep Batch: 92776

Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3040	3030	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109715
Prep Batch: 92776Date Analyzed: 2014-02-27
QC Preparation: 2014-02-27Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	978	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	991	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: 109997
Prep Batch: 93014Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.2	mg/L	1	25.0	<0.678	101	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	25.1	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: 109997
Prep Batch: 93014Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.06	mg/L	1	5.00	<0.0374	101	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.04	mg/L	1	5.00	<0.0374	101	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110199
Prep Batch: 93174

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	85 - 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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 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: 355814

QC Batch: 109997
Prep Batch: 93014

Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1990	mg/L	55.6	1390	506	107	80 - 120		

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	1980	mg/L	55.6	1390	506	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: 355814

QC Batch: 109997
Prep Batch: 93014

Date Analyzed: 2014-02-26
QC Preparation: 2014-02-26

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	302	mg/L	55.6	278	25.2	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	300	mg/L	55.6	278	25.2	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: 355817

QC Batch: 110199
Prep Batch: 93174

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	602	mg/L	10	500	189	83	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
Total Kjeldahl Nitrogen - N		2	658	mg/L	10	500	189	94	80 - 120	9	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: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.3	97	90 - 110	2014-02-26

Standard (CCV-1)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.90	98	90 - 110	2014-02-26

Standard (CCV-2)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.4	98	90 - 110	2014-02-26

Standard (CCV-2)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.89	98	90 - 110	2014-02-26

Standard (CCV-3)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-26

Standard (CCV-3)

QC Batch: 109997

Date Analyzed: 2014-02-26

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.92	98	90 - 110	2014-02-26

Standard (ICV-1)

QC Batch: 110199

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (CCV-1)

QC Batch: 110199

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

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.



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

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

Report Date: March 18, 2014

Work Order: 14030325



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
356447	74-1	water	2014-03-03	09:53	2014-03-03
356448	74-2	water	2014-03-03	10:35	2014-03-03
356449	74-3	water	2014-03-03	11:21	2014-03-03
356450	74-4	water	2014-03-03	12:25	2014-03-03
356451	74 Lagoon	water	2014-03-03	10:00	2014-03-03

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 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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QC Batch 109873 - Method Blank (1)	12
QC Batch 110055 - Method Blank (1)	12
QC Batch 110055 - Method Blank (1)	13
QC Batch 110199 - Method Blank (1)	13
QC Batch 110247 - Method Blank (1)	13
QC Batch 109873 - Duplicate (1)	13
Laboratory Control Spikes	15
QC Batch 109844 - LCS (1)	15
QC Batch 109844 - LCS (1)	15
QC Batch 109873 - LCS (1)	15
QC Batch 110055 - LCS (1)	16
QC Batch 110055 - LCS (1)	16
QC Batch 110199 - LCS (1)	16
QC Batch 110247 - LCS (1)	17
QC Batch 109844 - MS (1)	17
QC Batch 109844 - MS (1)	17
QC Batch 110055 - MS (1)	18
QC Batch 110055 - MS (1)	18
QC Batch 110199 - MS (1)	19
QC Batch 110247 - MS (1)	19
Calibration Standards	20
QC Batch 109844 - CCV (1)	20
QC Batch 109844 - CCV (1)	20
QC Batch 109844 - CCV (2)	20
QC Batch 109844 - CCV (2)	20
QC Batch 109844 - CCV (3)	20
QC Batch 109844 - CCV (3)	21
QC Batch 110055 - CCV (1)	21
QC Batch 110055 - CCV (1)	21
QC Batch 110055 - CCV (2)	21
QC Batch 110055 - CCV (2)	22
QC Batch 110055 - CCV (3)	22
QC Batch 110055 - CCV (3)	22
QC Batch 110055 - CCV (4)	22
QC Batch 110055 - CCV (4)	22

QC Batch 110199 - ICV (1)	23
QC Batch 110199 - CCV (1)	23
QC Batch 110247 - ICV (1)	23
QC Batch 110247 - CCV (1)	23

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Case Narrative

Samples for project Buena Vista Dairy #2 were received by TraceAnalysis, Inc. on 2014-03-03 and assigned to work order 14030325. Samples for work order 14030325 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	92882	2014-03-03 at 21:16	109844	2014-03-03 at 21:16
Chloride (IC)	E 300.0	93062	2014-03-04 at 19:19	110055	2014-03-04 at 19:19
NO3 (IC)	E 300.0	92882	2014-03-03 at 21:16	109844	2014-03-03 at 21:16
NO3 (IC)	E 300.0	93062	2014-03-04 at 19:19	110055	2014-03-04 at 19:19
TDS	SM 2540C	92911	2014-03-04 at 14:15	109873	2014-03-04 at 14:15
TKN	SM 4500-NH3 B,C	93174	2014-03-14 at 10:45	110199	2014-03-14 at 16:00
TKN	SM 4500-NH3 B,C	93218	2014-03-17 at 13:00	110247	2014-03-17 at 16:20

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14030325 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: 356447 - 74-1

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109844 Date Analyzed: 2014-03-03 Analyzed By: JR
 Prep Batch: 92882 Sample Preparation: 2014-03-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	855	855	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356447 - 74-1

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109844 Date Analyzed: 2014-03-03 Analyzed By: JR
 Prep Batch: 92882 Sample Preparation: 2014-03-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	57.2	57.2	<0.426	mg/L	10	0.426	0.5	0.0426

Sample: 356447 - 74-1

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109873 Date Analyzed: 2014-03-04 Analyzed By: MC
 Prep Batch: 92911 Sample Preparation: 2014-03-04 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	3200	3200	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356447 - 74-1

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110199 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93174 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	2.10	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356448 - 74-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109844 Date Analyzed: 2014-03-03 Analyzed By: JR
 Prep Batch: 92882 Sample Preparation: 2014-03-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	588	588	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356448 - 74-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109844 Date Analyzed: 2014-03-03 Analyzed By: JR
 Prep Batch: 92882 Sample Preparation: 2014-03-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	24.7	24.7	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 356448 - 74-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109873 Date Analyzed: 2014-03-04 Analyzed By: MC
 Prep Batch: 92911 Sample Preparation: 2014-03-04 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	2260	2260	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356448 - 74-2

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110199 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93174 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356449 - 74-3

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109844 Date Analyzed: 2014-03-03 Analyzed By: JR
 Prep Batch: 92882 Sample Preparation: 2014-03-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1220	1220	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356449 - 74-3

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109844 Date Analyzed: 2014-03-03 Analyzed By: JR
 Prep Batch: 92882 Sample Preparation: 2014-03-03 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	5.75	5.75	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 356449 - 74-3

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109873 Date Analyzed: 2014-03-04 Analyzed By: MC
 Prep Batch: 92911 Sample Preparation: 2014-03-04 Prepared By: MC

continued . . .

sample 356449 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	4140	4140	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356449 - 74-3

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110199

Prep Batch: 93174

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-03-14

Sample Preparation: 2014-03-14

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356450 - 74-4

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 110055

Prep Batch: 93062

Analytical Method: E 300.0

Date Analyzed: 2014-03-04

Sample Preparation: 2014-03-04

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	565	565	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356450 - 74-4

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 110055

Prep Batch: 93062

Analytical Method: E 300.0

Date Analyzed: 2014-03-04

Sample Preparation: 2014-03-04

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	18.1	18.1	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356450 - 74-4

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109873 Date Analyzed: 2014-03-04 Analyzed By: MC
 Prep Batch: 92911 Sample Preparation: 2014-03-04 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2080	2080	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356450 - 74-4

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110199 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93174 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356451 - 74 Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	446	446	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356451 - 74 Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	u	1	<0.187	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356451 - 74 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109873 Date Analyzed: 2014-03-04 Analyzed By: MC
 Prep Batch: 92911 Sample Preparation: 2014-03-04 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2560	2560	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356451 - 74 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110247 Date Analyzed: 2014-03-17 Analyzed By: CF
 Prep Batch: 93218 Sample Preparation: 2014-03-17 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	98.0	<100	<16.6	mg/L	10	16.6	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109844
Prep Batch: 92882Date Analyzed: 2014-03-03
QC Preparation: 2014-03-03Analyzed 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: 109844
Prep Batch: 92882Date Analyzed: 2014-03-03
QC Preparation: 2014-03-03Analyzed 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: 109873
Prep Batch: 92911Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed 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: 110055
Prep Batch: 93062Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed 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: 110055
Prep Batch: 93062Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)QC Batch: 110199
Prep Batch: 93174Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Method Blank (1)QC Batch: 110247
Prep Batch: 93218Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 356456QC Batch: 109873
Prep Batch: 92911Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed 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	2800	2800	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109844
Prep Batch: 92882Date Analyzed: 2014-03-03
QC Preparation: 2014-03-03Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.2	mg/L	1	25.0	<0.678	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.2	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: 109844
Prep Batch: 92882Date Analyzed: 2014-03-03
QC Preparation: 2014-03-03Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.88	mg/L	1	5.00	<0.0426	98	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
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: 109873
Prep Batch: 92911Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 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: 110247
Prep Batch: 93218

Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.66	90	85 - 115	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: 356448

QC Batch: 109844
Prep Batch: 92882

Date Analyzed: 2014-03-03
QC Preparation: 2014-03-03

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2030	mg/L	55.6	1390	588	104	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Chloride		1	2050	mg/L	55.6	1390	588	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: 356448

QC Batch: 109844 Date Analyzed: 2014-03-03 Analyzed By: JR
Prep Batch: 92882 QC Preparation: 2014-03-03 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	297	mg/L	55.6	278	24.7	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	301	mg/L	55.6	278	24.7	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: 356450

QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
Prep Batch: 93062 QC Preparation: 2014-03-04 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2040	mg/L	55.6	1390	565	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2020	mg/L	55.6	1390	565	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: 356450

QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
Prep Batch: 93062 QC Preparation: 2014-03-04 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	296	mg/L	55.6	278	18.1	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	293	mg/L	55.6	278	18.1	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: 355817

QC Batch: 110199
Prep Batch: 93174

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	602	mg/L	10	500	189	83	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
Total Kjeldahl Nitrogen - N		2	658	mg/L	10	500	189	94	80 - 120	9	20

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

Matrix Spike (MS-1) Spiked Sample: 356451

QC Batch: 110247
Prep Batch: 93218

Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	525	mg/L	1	500	<1.66	105	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	532	mg/L	1	500	<1.66	87	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: 109844

Date Analyzed: 2014-03-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-03-03

Standard (CCV-1)

QC Batch: 109844

Date Analyzed: 2014-03-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.92	98	90 - 110	2014-03-03

Standard (CCV-2)

QC Batch: 109844

Date Analyzed: 2014-03-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-03-03

Standard (CCV-2)

QC Batch: 109844

Date Analyzed: 2014-03-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2014-03-03

Standard (CCV-3)

QC Batch: 109844

Date Analyzed: 2014-03-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-03

Standard (CCV-3)

QC Batch: 109844

Date Analyzed: 2014-03-03

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2014-03-03

Standard (CCV-1)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-03-04

Standard (CCV-1)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2014-03-04

Standard (CCV-2)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-04

Standard (CCV-2)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-03-04

Standard (CCV-3)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-04

Standard (CCV-3)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-03-04

Standard (CCV-4)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-04

Standard (CCV-4)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-04

Standard (ICV-1)

QC Batch: 110199

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (CCV-1)

QC Batch: 110199

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (ICV-1)

QC Batch: 110247

Date Analyzed: 2014-03-17

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-17

Standard (CCV-1)

QC Batch: 110247

Date Analyzed: 2014-03-17

Analyzed By: CF

Report Date: March 18, 2014

Work Order: 14030325
Buena Vista Dairy #2

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16910 Stern Drive, Mesquite, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.04	101	85 - 115	2014-03-17

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
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.



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Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Bruce Bonestroo
 River Valley Dairy, LLC
 1400 La Chuga Rd., Mesquite
 P.O. Box 1929
 Anthony, NM, 88021

Report Date: March 18, 2014

Work Order: 14030326



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
356453	167-04	water	2014-03-03	14:12	2014-03-03
356454	167-05	water	2014-03-03	13:26	2014-03-03
356455	167-09	water	2014-03-03	13:44	2014-03-03
356456	167 Lagoon	water	2014-03-03	14:25	2014-03-03

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 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 River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2014-03-03 and assigned to work order 14030326. Samples for work order 14030326 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	93062	2014-03-04 at 19:19	110055	2014-03-04 at 19:19
NO3 (IC)	E 300.0	93062	2014-03-04 at 19:19	110055	2014-03-04 at 19:19
TDS	SM 2540C	92911	2014-03-04 at 14:15	109873	2014-03-04 at 14:15
TKN	SM 4500-NH3 B,C	93218	2014-03-17 at 13:00	110247	2014-03-17 at 16:20

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14030326 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: 356453 - 167-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1180	1180	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356453 - 167-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	25.1	25.1	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356453 - 167-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109873 Date Analyzed: 2014-03-04 Analyzed By: MC
 Prep Batch: 92911 Sample Preparation: 2014-03-04 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	4080	4080	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356453 - 167-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110247 Date Analyzed: 2014-03-17 Analyzed By: CF
 Prep Batch: 93218 Sample Preparation: 2014-03-17 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	2.10	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356454 - 167-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	818	818	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356454 - 167-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	2.25	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356454 - 167-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109873 Date Analyzed: 2014-03-04 Analyzed By: MC
 Prep Batch: 92911 Sample Preparation: 2014-03-04 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	3180	3180	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356454 - 167-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110247 Date Analyzed: 2014-03-17 Analyzed By: CF
 Prep Batch: 93218 Sample Preparation: 2014-03-17 Prepared By: CF

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: 356455 - 167-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Chloride		1	756	756	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356455 - 167-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Nitrate-N		1	6.49	6.49	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356455 - 167-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109873 Date Analyzed: 2014-03-04 Analyzed By: MC
 Prep Batch: 92911 Sample Preparation: 2014-03-04 Prepared By: MC

continued . . .

sample 356455 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2840	2840	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356455 - 167-09

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110247

Prep Batch: 93218

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-03-17

Sample Preparation: 2014-03-17

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356456 - 167 Lagoon

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 110055

Prep Batch: 93062

Analytical Method: E 300.0

Date Analyzed: 2014-03-04

Sample Preparation: 2014-03-04

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	596	596	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356456 - 167 Lagoon

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 110055

Prep Batch: 93062

Analytical Method: E 300.0

Date Analyzed: 2014-03-04

Sample Preparation: 2014-03-04

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	u	1	<0.187	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356456 - 167 Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109873 Date Analyzed: 2014-03-04 Analyzed By: MC
 Prep Batch: 92911 Sample Preparation: 2014-03-04 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2800	2800	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356456 - 167 Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110247 Date Analyzed: 2014-03-17 Analyzed By: CF
 Prep Batch: 93218 Sample Preparation: 2014-03-17 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	91.0	<100	<16.6	mg/L	10	16.6	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109873
Prep Batch: 92911Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed 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: 110055
Prep Batch: 93062Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed 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: 110055
Prep Batch: 93062Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110247
Prep Batch: 93218Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed By: CF
Prepared By: CF

Report Date: March 18, 2014

Work Order: 14030326
River Valley Dairy, LLC

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1400 La Chuga Rd., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 356456

QC Batch: 109873

Date Analyzed: 2014-03-04

Analyzed By: MC

Prep Batch: 92911

QC Preparation: 2014-03-04

Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2800	2800	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109873
Prep Batch: 92911Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	999	mg/L	1	1000	<2.50	100	90 - 110	0	10

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

Laboratory Control Spike (LCS-1)

QC Batch: 110055
Prep Batch: 93062Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.3	mg/L	1	25.0	<0.678	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD 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: 110055
Prep Batch: 93062Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.90	mg/L	1	5.00	<0.0374	98	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.90	mg/L	1	5.00	<0.0374	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: 110247
Prep Batch: 93218

Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 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	44.8	mg/L	1	50.0	<1.66	90	85 - 115	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: 356450

QC Batch: 110055
Prep Batch: 93062

Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2040	mg/L	55.6	1390	565	106	80 - 120

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2020	mg/L	55.6	1390	565	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: 356450

QC Batch: 110055
Prep Batch: 93062

Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	296	mg/L	55.6	278	18.1	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Nitrate-N		1	293	mg/L	55.6	278	18.1	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: 356451

QC Batch: 110247
Prep Batch: 93218

Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	525	mg/L	1	500	<1.66	105	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2	532	mg/L	1	500	<1.66	87	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: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-03-04

Standard (CCV-1)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2014-03-04

Standard (CCV-2)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-04

Standard (CCV-2)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-03-04

Standard (CCV-3)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-04

Standard (CCV-3)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-03-04

Standard (CCV-4)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-04

Standard (CCV-4)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-04

Standard (ICV-1)

QC Batch: 110247

Date Analyzed: 2014-03-17

Analyzed By: CF

Report Date: March 18, 2014

Work Order: 14030326
River Valley Dairy, LLC

Page Number: 17 of 19
1400 La Chuga Rd., Mesquite, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-17

Standard (CCV-1)

QC Batch: 110247

Date Analyzed: 2014-03-17

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.04	101	85 - 115	2014-03-17

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: 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):
 River Valley Dairy, PO Box 1929, Anthony, NM 88021 Bruce Bonestroo 575-233-2061
 Project #: 435917 Project Name: River Valley Dairy, LLC
 Project Location (including state): River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM Sampler Signature: [Signature]

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING				
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME	
167-01		1		X				X				X				
167-01		1		X				X				X				
167-01A		1		X				X				X				
167-01A		1		X				X				X				
167-02		1		X				X				X				
167-02		1		X				X				X				
167-03		1		X				X				X				
167-03		1		X				X				X				
167-04		1		X				X				X				
167-04		1		X				X				X				
167-05		1		X				X				X				
167-05		1		X				X				X				
167-08 09		1		X				X				X				
167-08 09		1		X				X				X				
167-07 LAGOON		1		X				X				X				
167-07 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	
Nitrates EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	
Hold	

Relinquished By: [Signature] Date: 3-3-14 Time: 1503
 Received By: [Signature] Date: 3-3-14 Time: 1503
 Relinquished By: [Signature] Date: 3-3-14 Time: 1630
 Received at Laboratory By: [Signature] Date: 3/4/14 Time: 9:00

Remarks: HS: 48590340
RD 3/4/14
 Dry Weight Basis Required
 Log-in Review DDH
Can y for



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

George Segura
 Big Sky Dairy
 17800 Stern Drive
 P.O. Box 10
 Mesquite, NM, 88048

Report Date: March 18, 2014

Work Order: 14030434



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
356607	833-4	water	2014-03-04	12:53	2014-03-04
356608	833-5	water	2014-03-04	10:08	2014-03-04
356609	833-6	water	2014-03-04	13:51	2014-03-04
356610	833-7	water	2014-03-04	11:15	2014-03-04
356611	833-8	water	2014-03-04	12:08	2014-03-04

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

This report consists of a total of 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

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 2014-03-04 and assigned to work order 14030434. Samples for work order 14030434 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	93058	2014-03-05 at 20:25	110053	2014-03-05 at 20:45
Chloride (IC)	E 300.0	93062	2014-03-04 at 19:19	110055	2014-03-04 at 19:19
NO3 (IC)	E 300.0	93058	2014-03-05 at 20:25	110053	2014-03-05 at 20:45
NO3 (IC)	E 300.0	93062	2014-03-04 at 19:19	110055	2014-03-04 at 19:19
TDS	SM 2540C	92980	2014-03-06 at 14:30	109953	2014-03-06 at 14:30
TKN	SM 4500-NH3 B,C	93218	2014-03-17 at 13:00	110247	2014-03-17 at 16:20

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14030434 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: 356607 - 833-4

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1010	1010	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356607 - 833-4

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	50.0	50.0	<0.374	mg/L	10	0.374	0.5	0.0374

Sample: 356607 - 833-4

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109953 Date Analyzed: 2014-03-06 Analyzed By: MC
 Prep Batch: 92980 Sample Preparation: 2014-03-06 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3530	3530	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356607 - 833-4

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110247 Date Analyzed: 2014-03-17 Analyzed By: CF
 Prep Batch: 93218 Sample Preparation: 2014-03-17 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356608 - 833-5

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1170	1170	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356608 - 833-5

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110055 Date Analyzed: 2014-03-04 Analyzed By: JR
 Prep Batch: 93062 Sample Preparation: 2014-03-04 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	18.5	18.5	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356608 - 833-5

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109953 Date Analyzed: 2014-03-06 Analyzed By: MC
 Prep Batch: 92980 Sample Preparation: 2014-03-06 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	3170	3170	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356608 - 833-5

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110247 Date Analyzed: 2014-03-17 Analyzed By: CF
 Prep Batch: 93218 Sample Preparation: 2014-03-17 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356609 - 833-6

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110053 Date Analyzed: 2014-03-05 Analyzed By: JR
 Prep Batch: 93058 Sample Preparation: 2014-03-05 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	847	847	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356609 - 833-6

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110053 Date Analyzed: 2014-03-05 Analyzed By: JR
 Prep Batch: 93058 Sample Preparation: 2014-03-05 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	41.9	41.9	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356609 - 833-6

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109953 Date Analyzed: 2014-03-06 Analyzed By: MC
 Prep Batch: 92980 Sample Preparation: 2014-03-06 Prepared By: MC

continued . . .

sample 356609 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2800	2800	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356609 - 833-6

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110247

Prep Batch: 93218

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-03-17

Sample Preparation: 2014-03-17

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356610 - 833-7

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 110053

Prep Batch: 93058

Analytical Method: E 300.0

Date Analyzed: 2014-03-05

Sample Preparation: 2014-03-05

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	1390	1390	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356610 - 833-7

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 110053

Prep Batch: 93058

Analytical Method: E 300.0

Date Analyzed: 2014-03-05

Sample Preparation: 2014-03-05

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	73.0	73.0	<0.374	mg/L	10	0.374	0.5	0.0374

Sample: 356610 - 833-7

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109953 Date Analyzed: 2014-03-06 Analyzed By: MC
 Prep Batch: 92980 Sample Preparation: 2014-03-06 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	4420	4420	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356610 - 833-7

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110247 Date Analyzed: 2014-03-17 Analyzed By: CF
 Prep Batch: 93218 Sample Preparation: 2014-03-17 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356611 - 833-8

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110053 Date Analyzed: 2014-03-05 Analyzed By: JR
 Prep Batch: 93058 Sample Preparation: 2014-03-05 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	807	807	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356611 - 833-8

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110053 Date Analyzed: 2014-03-05 Analyzed By: JR
 Prep Batch: 93058 Sample Preparation: 2014-03-05 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	100	100	<0.374	mg/L	10	0.374	0.5	0.0374

Sample: 356611 - 833-8

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109953 Date Analyzed: 2014-03-06 Analyzed By: MC
 Prep Batch: 92980 Sample Preparation: 2014-03-06 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3220	3220	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356611 - 833-8

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110247 Date Analyzed: 2014-03-17 Analyzed By: CF
 Prep Batch: 93218 Sample Preparation: 2014-03-17 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109953
Prep Batch: 92980Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed 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: 110053
Prep Batch: 93058Date Analyzed: 2014-03-05
QC Preparation: 2014-03-05Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.26	mg/L	0.678

Method Blank (1)

QC Batch: 110053
Prep Batch: 93058Date Analyzed: 2014-03-05
QC Preparation: 2014-03-05Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110055
Prep Batch: 93062Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed 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: 110055
Prep Batch: 93062Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)QC Batch: 110247
Prep Batch: 93218Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 356686QC Batch: 109953
Prep Batch: 92980Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2740	2720	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109953
Prep Batch: 92980Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	994	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: 110053
Prep Batch: 93058Date Analyzed: 2014-03-05
QC Preparation: 2014-03-05Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	23.8	mg/L	1	25.0	<0.678	95	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	23.8	mg/L	1	25.0	<0.678	95	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110053
Prep Batch: 93058Date Analyzed: 2014-03-05
QC Preparation: 2014-03-05Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.79	mg/L	1	5.00	<0.0374	96	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.78	mg/L	1	5.00	<0.0374	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: 110055
Prep Batch: 93062

Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
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	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
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: 110055
Prep Batch: 93062

Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	4.90	mg/L	1	5.00	<0.0374	98	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.90	mg/L	1	5.00	<0.0374	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: 110247
Prep Batch: 93218

Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	44.8	mg/L	1	50.0	<1.66	90	85 - 115	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: 356686

QC Batch: 110053
Prep Batch: 93058

Date Analyzed: 2014-03-05
QC Preparation: 2014-03-05

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2160	mg/L	55.6	1390	688	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2140	mg/L	55.6	1390	688	104	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: 356686

QC Batch: 110053
Prep Batch: 93058

Date Analyzed: 2014-03-05
QC Preparation: 2014-03-05

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	293	mg/L	55.6	278	23.1	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	287	mg/L	55.6	278	23.1	95	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: 356450QC Batch: 110055
Prep Batch: 93062Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2040	mg/L	55.6	1390	565	106	80 - 120

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2020	mg/L	55.6	1390	565	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: 356450QC Batch: 110055
Prep Batch: 93062Date Analyzed: 2014-03-04
QC Preparation: 2014-03-04Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	296	mg/L	55.6	278	18.1	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	293	mg/L	55.6	278	18.1	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: 356451QC Batch: 110247
Prep Batch: 93218Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	525	mg/L	1	500	<1.66	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 Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	532	mg/L	1	500	<1.66	87	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: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-03-05

Standard (CCV-1)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-03-05

Standard (CCV-2)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-05

Standard (CCV-2)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-03-05

Standard (CCV-3)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-05

Standard (CCV-3)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-03-05

Standard (CCV-4)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-05

Standard (CCV-4)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-05

Standard (CCV-1)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-03-04

Standard (CCV-1)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.93	99	90 - 110	2014-03-04

Standard (CCV-2)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-04

Standard (CCV-2)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-03-04

Standard (CCV-3)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-04

Standard (CCV-3)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-03-04

Standard (CCV-4)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-04

Standard (CCV-4)

QC Batch: 110055

Date Analyzed: 2014-03-04

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-04

Standard (ICV-1)

QC Batch: 110247

Date Analyzed: 2014-03-17

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-17

Standard (CCV-1)

QC Batch: 110247

Date Analyzed: 2014-03-17

Analyzed By: CF

Report Date: March 18, 2014

Work Order: 14030434
Big Sky Dairy

Page Number: 23 of 25
17800 Stern Drive, Mesquite, NM 88048

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.04	101	85 - 115	2014-03-17

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.

TraceAnalysis, Inc.

Paso, TX 79632
Tel (915) 585-3443
Fax (915) 585-4944

Phone #: 915-859-8150

Cell #:

Fax #:

E-mail: vavala@dihpump.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 #:

435924

George Segura 575-233-3620

Project Name:

Big Sky Dairy

Sampler Signature:

July

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 ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE		TIME
833-1		1		X				X								
833-1		1		X				X								
833-2		1		X				X								
833-2		1		X				X								
833-3		1		X				X								
833-3		1		X				X								
833-4		1		X				X						3-4-14	1200	
833-4		1		X				X						3-4-14	1200	
833-5		1		X				X						3-4-14	1008	
833-5		1		X				X						3-4-14	1008	
833-6		1		X				X						3-4-14	1351	
833-6		1		X				X						3-4-14	1351	
833-7		1		X				X						3-4-14	1115	
833-7		1		X				X						3-4-14	1115	
833-8		1		X				X						3-4-14	1208	
833-8		1		X				X						3-4-14	1208	

Remarks:

Lab Use Only

Initials Y/N

Headspace Y/N

Temp Y/N

Log-in Review Y/N

Date: Time:

3-4-14 1431

Date: Time:

3-4-14 1431

Relinquished By:

July

Date: Time:

3-4-14 1431

Relinquished By:

July

Date: Time:

3-4-14 1630

Dry Weight Basis Required
TRRP Report Required

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 14030434

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 Ketohal Nitrogen SM 4500 NORG C	X
Chloride EPA 300.0	X
Total Dissolved Solids SM 2540 C MOD	X

Turn Around Time

5 24-14
6 24-14

LAB Order ID # 14030434

ANALYSIS REQUEST

TPH 418.1 / TX1005	
BTEX 8021B/602	
MTBE 8021B/602	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	X
Nitrates 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 #	(LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD				SAMPLING		TIME	Lab Use Only	Intact <input type="checkbox"/> Y <input type="checkbox"/> N	Headspace <input type="checkbox"/> Y <input type="checkbox"/> N	Temp <u>11.1</u> <u>REL</u>	Log-in Review <u>DDH 3-4-14</u>
					WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE						
899-1			1		X			X											
899-1			1		X			X											
899-2			1		X			X											
899-2			1		X			X											
899-3			1		X			X											
899-3			1		X			X											
899-4			1		X			X					3-4-14	1053					
899-4			1		X			X					3-4-14	1253					
899-5			1		X			X					3-4-14	1008					
899-5			1		X			X					3-4-14	1008					
899-6			1		X			X					3-4-14	1351					
899-6			1		X			X					3-4-14	1351					
899-7			1		X			X					3-4-14	1115					
899-7			1		X			X					3-4-14	1115					
899-8			1		X			X					3-4-14	1208					
899-8			1		X			X					3-4-14	1208					

Remarks: 48590341
 Dry Weight Basis Required
 TRRP Report Required

Company Name: **TraceAnalysis, Inc.**
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

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):
 Big Sky Dairy, P.O. Box 10, Mesquite, NM 88048
 Project #: 435924
 Project Name:
 Big Sky Dairy
 Sampler Signature: *guly*

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

Relinquished By: <i>guly</i>	Date: 3-4-14	Time: 1431	Received By: <i>[Signature]</i>	Date: 3-4-14	Time: 1431
Relinquished By: <i>[Signature]</i>	Date: 3-4-14	Time: 1636	Received at Laboratory By: <i>ASge TA</i>	Date: 3-4-14	Time: 1731

5 REL
 5 REL
 5 REL



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
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E-Mail: lab@traceanalysis.com WEB: www.traceanalysis.com

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Bruce Bonestroo
River Valley Dairy, LLC
1400 La Chuga Rd., Mesquite
P.O. Box 1929
Anthony, NM, 88021

Report Date: March 19, 2014

Work Order: 14030436



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
356612	167-08	water	2014-03-04	08:12	2014-03-04

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

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

Notes:

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

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

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Case Narrative

Samples for project River Valley Dairy, LLC were received by TraceAnalysis, Inc. on 2014-03-04 and assigned to work order 14030436. Samples for work order 14030436 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	93058	2014-03-05 at 20:25	110053	2014-03-05 at 20:45
NO3 (IC)	E 300.0	93058	2014-03-05 at 20:25	110053	2014-03-05 at 20:45
TDS	SM 2540C	92980	2014-03-06 at 14:30	109953	2014-03-06 at 14:30
TKN	SM 4500-NH3 B,C	93248	2014-03-18 at 10:20	110283	2014-03-18 at 15:00

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 14030436 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: 356612 - 167-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110053 Date Analyzed: 2014-03-05 Analyzed By: JR
 Prep Batch: 93058 Sample Preparation: 2014-03-05 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	884	884	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356612 - 167-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110053 Date Analyzed: 2014-03-05 Analyzed By: JR
 Prep Batch: 93058 Sample Preparation: 2014-03-05 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	1.02	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356612 - 167-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109953 Date Analyzed: 2014-03-06 Analyzed By: MC
 Prep Batch: 92980 Sample Preparation: 2014-03-06 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3090	3090	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356612 - 167-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110283 Date Analyzed: 2014-03-18 Analyzed By: CF
 Prep Batch: 93248 Sample Preparation: 2014-03-18 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109953
Prep Batch: 92980Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed 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: 110053
Prep Batch: 93058Date Analyzed: 2014-03-05
QC Preparation: 2014-03-05Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.26	mg/L	0.678

Method Blank (1)

QC Batch: 110053
Prep Batch: 93058Date Analyzed: 2014-03-05
QC Preparation: 2014-03-05Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110283
Prep Batch: 93248Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18Analyzed By: CF
Prepared By: CF

Report Date: March 19, 2014

Work Order: 14030436
River Valley Dairy, LLC

Page Number: 7 of 15
1400 La Chuga Rd., Mesquite, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 356686

QC Batch: 109953
Prep Batch: 92980

Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2740	2720	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109953
Prep Batch: 92980Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	994	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: 110053
Prep Batch: 93058Date Analyzed: 2014-03-05
QC Preparation: 2014-03-05Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	23.8	mg/L	1	25.0	<0.678	95	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	23.8	mg/L	1	25.0	<0.678	95	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110053
Prep Batch: 93058Date Analyzed: 2014-03-05
QC Preparation: 2014-03-05Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.79	mg/L	1	5.00	<0.0374	96	90 - 110

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	293	mg/L	55.6	278	23.1	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	287	mg/L	55.6	278	23.1	95	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: 357546

QC Batch: 110283
Prep Batch: 93248

Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	88.2	mg/L	2	100	<3.32	87	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
Total Kjeldahl Nitrogen - N		2	91.0	mg/L	2	100	<3.32	90	80 - 120	3	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-03-05

Standard (CCV-1)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-03-05

Standard (CCV-2)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-05

Standard (CCV-2)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-03-05

Standard (CCV-3)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-05

Standard (CCV-3)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-03-05

Standard (CCV-4)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-05

Standard (CCV-4)

QC Batch: 110053

Date Analyzed: 2014-03-05

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-05

Standard (ICV-1)

QC Batch: 110283

Date Analyzed: 2014-03-18

Analyzed By: CF

Report Date: March 19, 2014

Work Order: 14030436
River Valley Dairy, LLC

Page Number: 13 of 15
1400 La Chuga Rd., Mesquite, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-18

Standard (CCV-1)

QC Batch: 110283

Date Analyzed: 2014-03-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-18

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	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.

Lubbock, TX 79424
Tel (806) 784-1296
Fax (806) 784-1298

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 #:

435717

Project Location (including state):

River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

Project Name:

River Valley Dairy, LLC

Sampler Signature:

[Signature]

Phone #:

915-859-8150

Cell #:

E-mail:

vaijala@dhpump.com

Bruce Bonestroo 575-233-2061

River Valley Dairy, LLC

Sampler Signature:

[Signature]

Page 1 of 1

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 14030436

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 8010B/200.7	
Nitrates EPA 300	X
TKN SM 4500 NORG C	X
Chloride EPA 300	X
Total Dissolved Solids SM 2540 C MOD	X
Turn Around Time	

LAB #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
356612	167-08	1		X				X					3-2-14	8:12
	167-08	1		X				X					3-3-14	8:13
	167-08	1		X				X						
	167-09	1		X				X						
	167-Lagoon	1		X				X						
	167-Lagoon	1		X				X						

Relinquished By:	Date:	Time:	Received By:	Date:	Time:
<i>[Signature]</i>	3-4-14	1431	<i>[Signature]</i>	3-4-14	1431
Relinquished By:	Date:	Time:	Received at Laboratory By:	Date:	Time:
<i>[Signature]</i>	3-4-14	1630	<i>[Signature]</i>	3-4-14	1630

Remarks:

Lab Use Only

Intact Y N

Headspace Y N

Temp I R Y N

Log-in Review I R Y N

Dry Weight Basis Required

TRRP Report Required

TraceAnalysis, Inc.

Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1296

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 #:

435717

Project Name:

River Valley Dairy, LLC

Sampler Signature:

July

Project Location (including state):

River Valley Dairy, 1400 La Chuga Rd., Mesquite, NM

Phone #: 915-859-8150

Call #:

Fax #:

E-mail:

vayala@dhpump.com

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

Page of

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 14030436

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 #	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					Sampling		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICF	NONI	DATE
35612-1	167-08	1		X				X					3-3-14	8:12
167-08		1		X				X					3-3-14	8:12
167-09		1		X				X						
167-09		1		X				X						
167-Lagoon		1		X				X						
167-Lagoon		1		X				X						

Relinquished By: <i>July</i>	Date: 3-4-14	Time: 1431	Received By: <i>[Signature]</i>	Date: 3-4-14	Time: 1430
Relinquished By: <i>[Signature]</i>	Date: 3-4-14	Time: 1630	Received at Laboratory By: <i>[Signature]</i>	Date: 3-4-14	Time: 1430

Remarks:

Lab Use Only
Intact Y
Headspace Y
Temp Y
Log-in Review Y

Dry Weight Basis Required
TRRP Report Required

100



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Dona Ana Dairies

Report Date: March 19, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14031033



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
357362	DAD-01	water	2014-03-10	10:53	2014-03-10
357363	DAD-02	water	2014-03-10	11:19	2014-03-10
357364	DAD-03	water	2014-03-10	11:54	2014-03-10
357365	DAD-04	water	2014-03-10	12:30	2014-03-10
357366	DAD-05	water	2014-03-10	13:58	2014-03-10
357367	DAD-16	water	2014-03-10	13:19	2014-03-10

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 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Dona Ana Dairies were received by TraceAnalysis, Inc. on 2014-03-10 and assigned to work order 14031033. Samples for work order 14031033 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	93146	2014-03-10 at 20:17	110164	2014-03-10 at 20:17
NO3 (IC)	E 300.0	93146	2014-03-10 at 20:17	110164	2014-03-10 at 20:17
TDS	SM 2540C	93138	2014-03-12 at 15:25	110157	2014-03-12 at 15:25
TKN	SM 4500-NH3 B,C	93248	2014-03-18 at 10:20	110283	2014-03-18 at 15:00

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 14031033 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

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

This report contains 1 analytes that have been manually integrated.

Sample	Analyte	Flag	Comment
1. 110164 CCV-1	Nitrate-N	MII	Split peak or shoulder peak

Analytical Report

Sample: 357362 - DAD-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	496	496	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 357362 - DAD-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	M11	1	5.76	5.76	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357362 - DAD-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110157 Date Analyzed: 2014-03-12 Analyzed By: MC
 Prep Batch: 93138 Sample Preparation: 2014-03-12 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1780	1780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357362 - DAD-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110283 Date Analyzed: 2014-03-18 Analyzed By: CF
 Prep Batch: 93248 Sample Preparation: 2014-03-18 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 357363 - DAD-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	463	463	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 357363 - DAD-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	MH	1	7.75	7.75	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357363 - DAD-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110157 Date Analyzed: 2014-03-12 Analyzed By: MC
 Prep Batch: 93138 Sample Preparation: 2014-03-12 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1620	1620	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357363 - DAD-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110283 Date Analyzed: 2014-03-18 Analyzed By: CF
 Prep Batch: 93248 Sample Preparation: 2014-03-18 Prepared By: CF

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: 357364 - DAD-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	917	917	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 357364 - DAD-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	J,MI1	1	0.906	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357364 - DAD-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110157 Date Analyzed: 2014-03-12 Analyzed By: MC
 Prep Batch: 93138 Sample Preparation: 2014-03-12 Prepared By: MC

continued . . .

sample 357364 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3480	3480	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357364 - DAD-03

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110283 Date Analyzed: 2014-03-18 Analyzed By: CF
 Prep Batch: 93248 Sample Preparation: 2014-03-18 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 357365 - DAD-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	694	694	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 357365 - DAD-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J,MI1	1	1.01	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357365 - DAD-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110157 Date Analyzed: 2014-03-12 Analyzed By: MC
 Prep Batch: 93138 Sample Preparation: 2014-03-12 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2600	2600	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357365 - DAD-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110283 Date Analyzed: 2014-03-18 Analyzed By: CF
 Prep Batch: 93248 Sample Preparation: 2014-03-18 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 357366 - DAD-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	312	312	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 357366 - DAD-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	MI1	1	4.81	4.81	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357366 - DAD-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110157 Date Analyzed: 2014-03-12 Analyzed By: MC
 Prep Batch: 93138 Sample Preparation: 2014-03-12 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1510	1510	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357366 - DAD-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110283 Date Analyzed: 2014-03-18 Analyzed By: CF
 Prep Batch: 93248 Sample Preparation: 2014-03-18 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 357367 - DAD-16

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

continued ...

sample 357367 continued ...

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	573	573	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 357367 - DAD-16

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110164 Date Analyzed: 2014-03-10 Analyzed By: JR
 Prep Batch: 93146 Sample Preparation: 2014-03-10 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J,M11	1	1.65	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357367 - DAD-16

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110157 Date Analyzed: 2014-03-12 Analyzed By: MC
 Prep Batch: 93138 Sample Preparation: 2014-03-12 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2100	2100	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357367 - DAD-16

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110283 Date Analyzed: 2014-03-18 Analyzed By: CF
 Prep Batch: 93248 Sample Preparation: 2014-03-18 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110157
Prep Batch: 93138

Date Analyzed: 2014-03-12
QC Preparation: 2014-03-12

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: 110164
Prep Batch: 93146

Date Analyzed: 2014-03-10
QC Preparation: 2014-03-10

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: 110164
Prep Batch: 93146

Date Analyzed: 2014-03-10
QC Preparation: 2014-03-10

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110283
Prep Batch: 93248

Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18

Analyzed By: CF
Prepared By: CF

Report Date: March 19, 2014
429539

Work Order: 14031033
Dona Ana Dairies

Page Number: 13 of 20

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 357362

QC Batch: 110157
Prep Batch: 93138

Date Analyzed: 2014-03-12
QC Preparation: 2014-03-12

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1740	1780	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110157
Prep Batch: 93138

Date Analyzed: 2014-03-12
QC Preparation: 2014-03-12

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	992	mg/L	1	1000	<2.50	99	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: 110164
Prep Batch: 93146

Date Analyzed: 2014-03-10
QC Preparation: 2014-03-10

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.4	mg/L	1	25.0	<0.678	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD 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: 110164
Prep Batch: 93146

Date Analyzed: 2014-03-10
QC Preparation: 2014-03-10

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.07	mg/L	1	5.00	<0.0374	101	90 - 110

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

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	286	mg/L	55.6	278	4.81	101	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	287	mg/L	55.6	278	4.81	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: 357546

QC Batch: 110283
Prep Batch: 93248

Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	88.2	mg/L	2	100	<3.32	87	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
Total Kjeldahl Nitrogen - N		2	91.0	mg/L	2	100	<3.32	90	80 - 120	3	20

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

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
TKN	SM 4500-NH3 B,C	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	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

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Lubbock, Texas 79424
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BioAnalytic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: **Dott Petroleum & Environmental** Phone #: **915-859-8150**

Address: **1221 Tower Peak Ln, El Paso, TX 79907** Fax #:

Contact Person: **VICTOR AYALA** E-mail: **VAYALAD@DPM.VP.COM**

Invoice to: **LINDA ARMSTRONG 575-233-3600**

Project #: **43591A** Project Name: **DONA ANA CONSORTIUM**

Project Location: **(Include state) VARIOUS DAIRIES, DONA ANA, NM** Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume/Amount	MATRIX						PRESERVATIVE METHOD						SAMPLING DATE	TIME
				WATER	SOIL	AIR	SLUDGE	HCL	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE				
357362-1	DAD-01	1	250	X								X	X	X	3-10	1053	
↓-2	DAD-01	1		X								X	X	X		1053	
627	DAD-02	1		X								X	X	X		1119	
↓-2	DAD-02	1		X								X	X	X		1119	
64-1	DAD-03	1		X								X	X	X		1157	
↓-2	DAD-03	1		X								X	X	X		1154	
65-1	DAD-04	1		X								X	X	X		1230	
↓-2	DAD-04	1		X								X	X	X		1230	
66-1	DAD-05	1		X								X	X	X		1350	
↓-2	DAD-05	1		X								X	X	X		1350	

Relinquished by: *[Signature]* Company: **D-H** Date: **3-10-14** Time: **1500**

Received by: *[Signature]* Company: **TAR** Date: **3-10-14** Time: **1500**

Relinquished by: *[Signature]* Company: **TAR** Date: **3-10-14** Time: **1630**

Received by: *[Signature]* Company: **TAR** Date: **3-10-14** Time: **1630**

INST: **222** OBS: **0** COR: **0**

INST: **0** OBS: **0** COR: **0**

INST: **0** OBS: **0** COR: **0**

INST: **0** OBS: **0** COR: **0**

LAB USE ONLY

Intact: Y/N

Headspace Y/N/INA: Y/N/INA

Log-In Review: *[Signature]*

Carrier #: **CANJ EN**

REMARKS:

Dry Weight Basis Required

TRRP Report Required

Check if Special Reporting Limits Are Needed

6-25-14



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

George Segura
Big Sky Dairy
17800 Stern Drive
P.O. Box 10
Mesquite, NM, 88048

Report Date: March 25, 2014

Work Order: 14030650



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
356889	833-2	water	2014-03-05	11:42	2014-03-06
356890	833-9	water	2014-03-05	15:38	2014-03-06
356891	833-10	water	2014-03-05	13:52	2014-03-06
356892	833-Lagoon	water	2014-03-05	15:58	2014-03-06

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

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2014-03-06 and assigned to work order 14030650. Samples for work order 14030650 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	93064	2014-03-06 at 21:23	110057	2014-03-06 at 21:23
NO3 (IC)	E 300.0	93064	2014-03-06 at 21:23	110057	2014-03-06 at 21:23
P, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
TDS	SM 2540C	93028	2014-03-10 at 12:45	110014	2014-03-10 at 12:45
TKN	E 351.3	93403	2014-03-24 at 11:15	110475	2014-03-24 at 16:00

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 14030650 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: 356889 - 833-2

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110057 Date Analyzed: 2014-03-06 Analyzed By: JR
 Prep Batch: 93064 Sample Preparation: 2014-03-06 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	1120	1120	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356889 - 833-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110057 Date Analyzed: 2014-03-06 Analyzed By: JR
 Prep Batch: 93064 Sample Preparation: 2014-03-06 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	79.8	79.8	<0.374	mg/L	10	0.374	0.5	0.0374

Sample: 356889 - 833-2

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110014 Date Analyzed: 2014-03-10 Analyzed By: MC
 Prep Batch: 93028 Sample Preparation: 2014-03-10 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	3920	3920	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356889 - 833-2

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110475 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93403 Sample Preparation: 2014-03-24 Prepared By: CF

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356890 - 833-9

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110057 Date Analyzed: 2014-03-06 Analyzed By: JR
 Prep Batch: 93064 Sample Preparation: 2014-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	998	998	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356890 - 833-9

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110057 Date Analyzed: 2014-03-06 Analyzed By: JR
 Prep Batch: 93064 Sample Preparation: 2014-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	125	125	<1.87	mg/L	50	1.87	0.5	0.0374

Sample: 356890 - 833-9

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110014 Date Analyzed: 2014-03-10 Analyzed By: MC
 Prep Batch: 93028 Sample Preparation: 2014-03-10 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	4430	4430	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356890 - 833-9

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110475 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93403 Sample Preparation: 2014-03-24 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356891 - 833-10

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110057 Date Analyzed: 2014-03-06 Analyzed By: JR
 Prep Batch: 93064 Sample Preparation: 2014-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	679	679	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356891 - 833-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110057 Date Analyzed: 2014-03-06 Analyzed By: JR
 Prep Batch: 93064 Sample Preparation: 2014-03-06 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	2.47	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356891 - 833-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110014 Date Analyzed: 2014-03-10 Analyzed By: MC
 Prep Batch: 93028 Sample Preparation: 2014-03-10 Prepared By: MC

continued . . .

sample 356891 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2660	2660	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356891 - 833-10

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110475

Prep Batch: 93403

Analytical Method: E 351.3

Date Analyzed: 2014-03-24

Sample Preparation: 2014-03-24

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356892 - 833-Lagoon

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 110057

Prep Batch: 93064

Analytical Method: E 300.0

Date Analyzed: 2014-03-06

Sample Preparation: 2014-03-06

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	762	762	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356892 - 833-Lagoon

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 110057

Prep Batch: 93064

Analytical Method: E 300.0

Date Analyzed: 2014-03-06

Sample Preparation: 2014-03-06

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	4.21	4.21	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356892 - 833-Lagoon

Laboratory: Lubbock
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A
 QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
 Prep Batch: 93021 Sample Preparation: Prepared By: PM

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Phosphorous		2	52.0	52.0	<0.0327	mg/L	5	0.0327	0.5	0.00654

Sample: 356892 - 833-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110014 Date Analyzed: 2014-03-10 Analyzed By: MC
 Prep Batch: 93028 Sample Preparation: 2014-03-10 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	5060	5060	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356892 - 833-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110475 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93403 Sample Preparation: 2014-03-24 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	399	399	<16.6	mg/L	10	16.6	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110014
Prep Batch: 93028Date Analyzed: 2014-03-10
QC Preparation: 2014-03-10Analyzed 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: 110057
Prep Batch: 93064Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed 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: 110057
Prep Batch: 93064Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110098
Prep Batch: 93021Date Analyzed: 2014-03-12
QC Preparation: 2014-03-10Analyzed By: LM
Prepared By: PM

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		2	<0.00654	mg/L	0.00654

Method Blank (1)QC Batch: 110475
Prep Batch: 93403Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 356889QC Batch: 110014
Prep Batch: 93028Date Analyzed: 2014-03-10
QC Preparation: 2014-03-10Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3940	3920	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110014
Prep Batch: 93028Date Analyzed: 2014-03-10
QC Preparation: 2014-03-10Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	998	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	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: 110057
Prep Batch: 93064Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.7	mg/L	1	25.0	<0.678	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.6	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: 110057
Prep Batch: 93064Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.98	mg/L	1	5.00	<0.0374	100	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.97	mg/L	1	5.00	<0.0374	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: 110098
Prep Batch: 93021

Date Analyzed: 2014-03-12
QC Preparation: 2014-03-10

Analyzed By: LM
Prepared By: PM

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Phosphorous		2	0.463	mg/L	1	0.500	<0.00654	93	85 - 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 Phosphorous		2	0.430	mg/L	1	0.500	<0.00654	86	85 - 115	7	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: 110475
Prep Batch: 93403

Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	85 - 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	44.1	mg/L	1	50.0	<1.66	88	85 - 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: 356891

QC Batch: 110057
Prep Batch: 93064

Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2150	mg/L	55.6	1390	679	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2160	mg/L	55.6	1390	679	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: 356891

QC Batch: 110057
Prep Batch: 93064

Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	276	mg/L	55.6	278	2.47	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	278	mg/L	55.6	278	2.47	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: 356686

QC Batch: 110098
Prep Batch: 93021

Date Analyzed: 2014-03-12
QC Preparation: 2014-03-10

Analyzed By: LM
Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		2	2.70	mg/L	1	0.500	2.195	101	75 - 125

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		2	2.62	mg/L	1	0.500	2.195	85	75 - 125	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: 356892

QC Batch: 110475

Date Analyzed: 2014-03-24

Analyzed By: CF

Prep Batch: 93403

QC Preparation: 2014-03-24

Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	840	mg/L	10	500	399	88	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
Total Kjeldahl Nitrogen - N		2	889	mg/L	10	500	399	98	80 - 120	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: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-03-06

Standard (CCV-1)

QC Batch: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-06

Standard (CCV-2)

QC Batch: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-06

Standard (CCV-2)

QC Batch: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-03-06

Standard (CCV-3)

QC Batch: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-06

Standard (CCV-3)

QC Batch: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-03-06

Standard (ICV-1)

QC Batch: 110098

Date Analyzed: 2014-03-12

Analyzed By: LM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.07	101	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098

Date Analyzed: 2014-03-12

Analyzed By: LM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.35	107	90 - 110	2014-03-12

Standard (ICV-1)

QC Batch: 110475

Date Analyzed: 2014-03-24

Analyzed By: CF

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-24

Standard (CCV-1)

QC Batch: 110475

Date Analyzed: 2014-03-24

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.18	104	85 - 115	2014-03-24

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	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.

14030650

TraceAnalysis, Inc.
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298


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 #: 435924
Project Name: George Segura 575-233-3620
Project Location (including state): Big Sky Dairy, 17800 Stern Drive, Mesquite, NM
Sampler Signature: 

Page 1 of 1
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 14030650

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

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH			ICE
833-1		1		X				X						
833-1		1		X				X						
35689-A		1		X				X				3-5-14	11:42 am	
L		1		X				X				3-5-14	11:42 am	
833-3		1		X				X						
833-3		1		X				X						
833-4		1		X				X						
833-4		1		X				X						
833-5		1		X				X						
833-5		1		X				X						
833-6		1		X				X						
833-6		1		X				X						
833-7		1		X				X						
833-7		1		X				X						
833-8		1		X				X						
833-8		1		X				X						

Relinquished By:  Date: 3-6-14 15:33
Received By: MUC TAEP Date: 3-6-14 15:35
Relinquished By: MUC TAEP Date: 3-6-15 15:35
Received By: MUC TAEP Date: 3-7-14 09:00
Lab Use Only: Intact Y N
 Headspace Y N
 Temperature
 Log-in Review
Remarks: on Ice
 TKN analysis in lab
 US 48590 3 43
 Dry Weight Basis Required
 TRRP Report Required
 3-6-14

14030050

TraceAnalysis, Inc.

Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

Company Name: Phone #: 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

Project Name: George Segura 575-233-3620
Project #: 435924
Project Location (including state):
Big Sky Dairy, 17800 Stern Drive, Mesquite, NM

Sampler Signature: 



LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
356890A	833-9	1		X				X		X			3-5-14	15:38
1-21	833-9	1		X				X		X			3-5-14	15:38
354801A	833-10	1		X				X		X			3-5-14	13:52 pm
1-10	833-10	1		X				X		X			3-5-14	13:52 pm
356892A	833 Lagoon	1		X				X		X			3-5-14	15:58
1-11	833 Lagoon	1		X				X		X			3-5-14	15:58
1-3	833 Lagoon	1		X				X		X			3-5-14	15:58

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

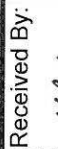
ANALYSIS REQUEST

LAB Order ID # 14030450

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
Page 2 of 2

Relinquished By:  Date: 3-5-14 15:33
Received at Laboratory By: MRL TAEP Date: 3-6-14 15:35
Temp: 149.00
Log-in Review: 

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

Relinquished By: MRL TAEP Date: 3-6-14 16:30
Received at Laboratory By:  Date: 3-6-14 16:30

Remarks: on ICP
TKN analysis in duplicate
at P 15: 48590343
Dry Weight Basis Required
TRRP Report Required

7679



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

George Segura
 Big Sky Dairy
 17800 Stern Drive
 P.O. Box 10
 Mesquite, NM, 88048

Report Date: March 25, 2014

Work Order: 14030651



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
356893	IRR ELL LRG-4001-S-2	water	2014-03-06	09:58	2014-03-06

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

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

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

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QC Batch 110475 - LCS (1)	6
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QC Batch 110057 - CCV (2)	8
QC Batch 110057 - CCV (3)	8
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Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2014-03-06 and assigned to work order 14030651. Samples for work order 14030651 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
NO3 (IC)	E 300.0	93064	2014-03-06 at 21:23	110057	2014-03-06 at 21:23
TKN	E 351.3	93403	2014-03-24 at 11:15	110475	2014-03-24 at 16:00

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 14030651 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: 356893 - IRR ELL LRG-4001-S-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110057 Date Analyzed: 2014-03-06 Analyzed By: JR
 Prep Batch: 93064 Sample Preparation: 2014-03-06 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	1.22	1.22	<0.0374	mg/L	1	0.0374	0.5	0.0374

Sample: 356893 - IRR ELL LRG-4001-S-2

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110475 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93403 Sample Preparation: 2014-03-24 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	2.80	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110057
Prep Batch: 93064Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110475
Prep Batch: 93403Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110057
Prep Batch: 93064Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: JR
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.98	mg/L	1	5.00	<0.0374	100	90 - 110

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

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.97	mg/L	1	5.00	<0.0374	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: 110475
Prep Batch: 93403Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24Analyzed By: CF
Prepared By: CF

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	85 - 115

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

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 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: 356891

QC Batch: 110057
Prep Batch: 93064Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: JR
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	276	mg/L	55.6	278	2.47	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 Amount	Matrix		Rec.		RPD	
			Result	Units			Result	Rec.	Limit	RPD	Limit	
Nitrate-N		1	278	mg/L	55.6	278	2.47	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: 356892

QC Batch: 110475
Prep Batch: 93403

Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24

Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix		Rec.	
			Result	Units			Result	Rec.	Limit	
Total Kjeldahl Nitrogen - N		2	840	mg/L	10	500	399	88	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		Rec.		RPD	
			Result	Units			Result	Rec.	Limit	RPD	Limit	
Total Kjeldahl Nitrogen - N		2	889	mg/L	10	500	399	98	80 - 120	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: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-06

Standard (CCV-2)

QC Batch: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-03-06

Standard (CCV-3)

QC Batch: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-03-06

Standard (ICV-1)

QC Batch: 110475

Date Analyzed: 2014-03-24

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-24

Report Date: March 25, 2014

Work Order: 14030651
Big Sky Dairy

Page Number: 9 of 11
17800 Stern Drive, Mesquite, NM 88048

Standard (CCV-1)

QC Batch: 110475

Date Analyzed: 2014-03-24

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.18	104	85 - 115	2014-03-24

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-12-3	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.

14030651


TraceAnalysis, Inc.
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

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: George Segura 575-233-3620
 Project #:
 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	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
356893-1	IRR WELL LRG-4001-S-2	1	250	X								X	X	3-6-14	9:58
-2	IRR WELL LRG-4001-S-2	1	250	X								X	X	3-6-14	9:58

Relinquished By:  Date: 3-6-14 15:33
 Received By: MRC TAEP Date: 3-6-14 15:33
 Relinquished By: MRC TAEP Date: 3-6-14 16:30
 Received at Laboratory By: AJE TA Date: 3/14 9:00

Lab Use Only
 Intact Y N
 Headspace Y / N
 Temperature 2
 Log-in Review MHT

Remarks: one ice
 TKN analysis in subbook
 US: 48500343

Dry Weight Basis Required
 TRRP Report Required



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

George Segura
 Big Sky Dairy
 17800 Stern Drive
 P.O. Box 10
 Mesquite, NM, 88048

Report Date: March 25, 2014

Work Order: 14030651



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
356893	IRR ELL LRG-4001-S-2	water	2014-03-06	09:58	2014-03-06

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

This report consists of a total of 11 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

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

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QC Batch 110057 - Method Blank (1)	5
QC Batch 110475 - Method Blank (1)	5
Laboratory Control Spikes	6
QC Batch 110057 - LCS (1)	6
QC Batch 110475 - LCS (1)	6
QC Batch 110057 - MS (1)	6
QC Batch 110475 - MS (1)	7
Calibration Standards	8
QC Batch 110057 - CCV (1)	8
QC Batch 110057 - CCV (2)	8
QC Batch 110057 - CCV (3)	8
QC Batch 110475 - ICV (1)	8
QC Batch 110475 - CCV (1)	8
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Case Narrative

Samples for project Big Sky Dairy were received by TraceAnalysis, Inc. on 2014-03-06 and assigned to work order 14030651. Samples for work order 14030651 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
NO3 (IC)	E 300.0	93064	2014-03-06 at 21:23	110057	2014-03-06 at 21:23
TKN	E 351.3	93403	2014-03-24 at 11:15	110475	2014-03-24 at 16:00

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 14030651 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: 356893 - IRR ELL LRG-4001-S-2

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110057 Date Analyzed: 2014-03-06 Analyzed By: JR
 Prep Batch: 93064 Sample Preparation: 2014-03-06 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	1.22	1.22	<0.0374	mg/L	1	0.0374	0.5	0.0374

Sample: 356893 - IRR ELL LRG-4001-S-2

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110475 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93403 Sample Preparation: 2014-03-24 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	2.80	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110057
Prep Batch: 93064Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110475
Prep Batch: 93403Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110057
Prep Batch: 93064Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: JR
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	4.98	mg/L	1	5.00	<0.0374	100	90 - 110

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

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	4.97	mg/L	1	5.00	<0.0374	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: 110475
Prep Batch: 93403Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24Analyzed By: CF
Prepared By: CF

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	85 - 115

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

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 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: 356891

QC Batch: 110057
Prep Batch: 93064Date Analyzed: 2014-03-06
QC Preparation: 2014-03-06Analyzed By: JR
Prepared By: JR

Param	F	C	MS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	276	mg/L	55.6	278	2.47	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 Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	278	mg/L	55.6	278	2.47	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: 356892

QC Batch: 110475
Prep Batch: 93403

Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24

Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	840	mg/L	10	500	399	88	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							
Total Kjeldahl Nitrogen - N		2	889	mg/L	10	500	399	98	80 - 120	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: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-06

Standard (CCV-2)

QC Batch: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-03-06

Standard (CCV-3)

QC Batch: 110057

Date Analyzed: 2014-03-06

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-03-06

Standard (ICV-1)

QC Batch: 110475

Date Analyzed: 2014-03-24

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-24

Report Date: March 25, 2014

Work Order: 14030651
Big Sky Dairy

Page Number: 9 of 11
17800 Stern Drive, Mesquite, NM 88048

Standard (CCV-1)

QC Batch: 110475

Date Analyzed: 2014-03-24

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.18	104	85 - 115	2014-03-24

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
TKN	E 351.3	water	N/A	Total Kjeldahl Nitrogen - N	5.00	Pass

Appendix

Report Definitions

Name	Definition
MDL	Method Detection Limit
MQL	Minimum Quantitation Limit
SDL	Sample Detection Limit

Laboratory Certifications

C	Certifying Authority	Certification Number	Laboratory Location
-	NCTRCA	WFWB384444Y0909	TraceAnalysis
-	DBE	VN 20657	TraceAnalysis
-	HUB	1752439743100-86536	TraceAnalysis
-	WBE	237019	TraceAnalysis
1	NELAP	T104704221-12-3	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.

14030651

TraceAnalysis, Inc.
Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

Company Name: D&H Petroleum & Environmental Services

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


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

Project Name: George Segura 575-233-3620

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

Project Name: Big Sky Dairy
Sampler Signature: 

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling			
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME
356893-1	IRR WELL LRG-4001-S-2	1	250	X								X	X	3-6-14	9:58
-2	IRR WELL LRG-4001-S-2	1	250	X								X	X	3-6-14	9:58

Relinquished By:  Date: 3-6-14 15:33
 Received By: MLC TRAP Date: 3-6-14 15:33
 Relinquished By: MLC TRAP Date: 3-6-14 16:30
 Received at Laboratory By: AJE TA Date: 3/14 9:00

Page 1 of 1
 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # 14030651

ANALYSIS REQUEST	Lab Use Only
MTBE 8021B/602	Intact <input checked="" type="checkbox"/> N
BTEX 8021B/602	Headspace Y / N
TPH 418.1 / TX1005	Temperature <input checked="" type="checkbox"/>
Nitrate as Nitrogen EPA 300.0	Log-in Review <input checked="" type="checkbox"/>
Salinity	
EC	
pH	
Carbonates	
SAR	
Potassium	
Phosphorus SM 4500	
Total Nitrogen	
Total Kjeldhal Nitrogen SM 4500 NORG C	X
Turn Around Time	
Hold	

Remarks: one ice
 TKN analysis in subbook
 LS: 48500343
 Dry Weight Basis Required
 TRRP Report Required

2

2/14



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Edward DeRuyter
 Sunset Dairy
 17900 Stern Drive
 P.O. Box 10
 Mesquite, NM, 88048

Report Date: March 25, 2014

Work Order: 14030652



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
356894	257-01	water	2014-03-06	10:51	2014-03-06
356895	257-02	water	2014-03-06	10:23	2014-03-06
356896	257-03	water	2014-03-06	12:10	2014-03-06
356897	257/260-01	water	2014-03-06	14:24	2014-03-06
356898	257-Lagoon	water	2014-03-06	11:22	2014-03-06

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

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

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Sunset Dairy were received by TraceAnalysis, Inc. on 2014-03-06 and assigned to work order 14030652. Samples for work order 14030652 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	93148	2014-03-07 at 13:53	110166	2014-03-07 at 13:53
Chloride (IC)	E 300.0	93337	2014-03-07 at 17:00	110383	2014-03-07 at 17:41
NO3 (IC)	E 300.0	93148	2014-03-07 at 13:53	110166	2014-03-07 at 13:53
NO3 (IC)	E 300.0	93337	2014-03-07 at 17:00	110383	2014-03-07 at 17:41
P, Total	S 6010C	93021	2014-03-10 at 14:01	110098	2014-03-12 at 13:12
TDS	SM 2540C	93028	2014-03-10 at 12:45	110014	2014-03-10 at 12:45
TDS	SM 2540C	93141	2014-03-13 at 13:45	110161	2014-03-13 at 13:45
TDS	SM 2540C	93424	2014-03-11 at 16:00	110505	2014-03-11 at 16:00
TKN	E 351.3	93403	2014-03-24 at 11:15	110475	2014-03-24 at 16:00

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 14030652 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: 356894 - 257-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93148 Sample Preparation: 2014-03-07 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	707	707	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356894 - 257-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93148 Sample Preparation: 2014-03-07 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	44.3	44.3	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356894 - 257-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110161 Date Analyzed: 2014-03-13 Analyzed By: MC
 Prep Batch: 93141 Sample Preparation: 2014-03-13 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	3130	3130	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356894 - 257-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110475 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93403 Sample Preparation: 2014-03-24 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356895 - 257-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93148 Sample Preparation: 2014-03-07 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	530	530	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356895 - 257-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93148 Sample Preparation: 2014-03-07 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	10.4	10.4	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356895 - 257-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110161 Date Analyzed: 2014-03-13 Analyzed By: MC
 Prep Batch: 93141 Sample Preparation: 2014-03-13 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2120	2120	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356895 - 257-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110475 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93403 Sample Preparation: 2014-03-24 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356896 - 257-03

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93148 Sample Preparation: 2014-03-07 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	546	546	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356896 - 257-03

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93148 Sample Preparation: 2014-03-07 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	6.06	6.06	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356896 - 257-03

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110161 Date Analyzed: 2014-03-13 Analyzed By: MC
 Prep Batch: 93141 Sample Preparation: 2014-03-13 Prepared By: MC

continued . . .

sample 356896 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2380	2380	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356896 - 257-03

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110475

Prep Batch: 93403

Analytical Method: E 351.3

Date Analyzed: 2014-03-24

Sample Preparation: 2014-03-24

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356897 - 257/260-01

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 110166

Prep Batch: 93148

Analytical Method: E 300.0

Date Analyzed: 2014-03-07

Sample Preparation: 2014-03-07

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	644	644	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 356897 - 257/260-01

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 110166

Prep Batch: 93148

Analytical Method: E 300.0

Date Analyzed: 2014-03-07

Sample Preparation: 2014-03-07

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	4.22	4.22	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 356897 - 257/260-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110014 Date Analyzed: 2014-03-10 Analyzed By: MC
 Prep Batch: 93028 Sample Preparation: 2014-03-10 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2780	2780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 356897 - 257/260-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110475 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93403 Sample Preparation: 2014-03-24 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 356898 - 257-Lagoon

Laboratory: Lubbock
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110383 Date Analyzed: 2014-03-07 Analyzed By: RL
 Prep Batch: 93337 Sample Preparation: 2014-03-07 Prepared By: RL

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride	B	2	986	986	130	mg/L	100	17.9	2.5	0.179

Sample: 356898 - 257-Lagoon

Laboratory: Lubbock
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110383 Date Analyzed: 2014-03-07 Analyzed By: RL
 Prep Batch: 93337 Sample Preparation: 2014-03-07 Prepared By: RL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N	u	2	<0.0690	<0.200	<0.0690	mg/L	5	0.0690	0.04	0.0138

Sample: 356898 - 257-Lagoon

Laboratory: Lubbock
 Analysis: P, Total Analytical Method: S 6010C Prep Method: S 3010A
 QC Batch: 110098 Date Analyzed: 2014-03-12 Analyzed By: LM
 Prep Batch: 93021 Sample Preparation: Prepared By: PM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Phosphorous		2	55.9	55.9	<0.0327	mg/L	5	0.0327	0.5	0.00654

Sample: 356898 - 257-Lagoon

Laboratory: Lubbock
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110505 Date Analyzed: 2014-03-11 Analyzed By: RL
 Prep Batch: 93424 Sample Preparation: 2014-03-11 Prepared By: RL

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		2	6060	6060	<125	mg/L	50	125	2.5	2.5

Sample: 356898 - 257-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110475 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93403 Sample Preparation: 2014-03-24 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N		2	280	280	<16.6	mg/L	10	16.6	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110014
Prep Batch: 93028Date Analyzed: 2014-03-10
QC Preparation: 2014-03-10Analyzed 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: 110098
Prep Batch: 93021Date Analyzed: 2014-03-12
QC Preparation: 2014-03-10Analyzed By: LM
Prepared By: PM

Parameter	F	C	Result	Units	Reporting Limits
Total Phosphorous		2	<0.00654	mg/L	0.00654

Method Blank (1)

QC Batch: 110161
Prep Batch: 93141Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13Analyzed 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: 110166
Prep Batch: 93148Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed 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: 110166
Prep Batch: 93148Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)QC Batch: 110383
Prep Batch: 93337Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: RL
Prepared By: RL

Parameter	F	C	Result	Units	Reporting Limits
Chloride		2	1.30	mg/L	0.179

Method Blank (1)QC Batch: 110383
Prep Batch: 93337Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: RL
Prepared By: RL

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		2	<0.0138	mg/L	0.0138

Method Blank (1)QC Batch: 110475
Prep Batch: 93403Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Method Blank (1)

QC Batch: 110505 Date Analyzed: 2014-03-11 Analyzed By: RL
 Prep Batch: 93424 QC Preparation: 2014-03-11 Prepared By: RL

Parameter	F	C	Result	Units	Reporting Limits
Total Dissolved Solids		2	<25.0	mg/L	2.5

Duplicate (1) Duplicated Sample: 356889

QC Batch: 110014 Date Analyzed: 2014-03-10 Analyzed By: MC
 Prep Batch: 93028 QC Preparation: 2014-03-10 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3940	3920	mg/L	1	0	10

Duplicate (1) Duplicated Sample: 357544

QC Batch: 110161 Date Analyzed: 2014-03-13 Analyzed By: MC
 Prep Batch: 93141 QC Preparation: 2014-03-13 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1960	1980	mg/L	1	1	10

Duplicate (1) Duplicated Sample: 356898

QC Batch: 110505 Date Analyzed: 2014-03-11 Analyzed By: RL
 Prep Batch: 93424 QC Preparation: 2014-03-11 Prepared By: RL

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Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		2	6000	6060	mg/L	50	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110014
Prep Batch: 93028Date Analyzed: 2014-03-10
QC Preparation: 2014-03-10Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	998	mg/L	1	1000	<2.50	100	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	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: 110098
Prep Batch: 93021Date Analyzed: 2014-03-12
QC Preparation: 2014-03-10Analyzed By: LM
Prepared By: PM

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		2	0.463	mg/L	1	0.500	<0.00654	93	85 - 115

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		2	0.430	mg/L	1	0.500	<0.00654	86	85 - 115	7	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: 110161
Prep Batch: 93141Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1010	mg/L	1	0.00	<2.50		90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	1020	mg/L	1	0.00	<2.50	0	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: 110166
Prep Batch: 93148

Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. 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	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.7	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: 110166
Prep Batch: 93148

Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
Nitrate-N		1	4.98	mg/L	1	5.00	<0.0374	100	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	4.98	mg/L	1	5.00	<0.0374	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: 110383
Prep Batch: 93337

Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07

Analyzed By: RL
Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		2	26.1	mg/L	1	25.0	1.3	99	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Chloride		2	26.0	mg/L	1	25.0	1.3	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: 110383
Prep Batch: 93337

Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07

Analyzed By: RL
Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		2	5.33	mg/L	1	5.00	<0.0138	107	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Nitrate-N		2	5.35	mg/L	1	5.00	<0.0138	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: 110475
Prep Batch: 93403

Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 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: 110505
Prep Batch: 93424

Date Analyzed: 2014-03-11
QC Preparation: 2014-03-11

Analyzed By: RL
Prepared By: RL

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		2	1010	mg/L	10	1000	<25.0	101	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		2	996	mg/L	10	1000	<25.0	100	90 - 110	1	10

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

Matrix Spike (MS-1) Spiked Sample: 356686

QC Batch: 110098
Prep Batch: 93021

Date Analyzed: 2014-03-12
QC Preparation: 2014-03-10

Analyzed By: LM
Prepared By: PM

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Phosphorous		2	2.70	mg/L	1	0.500	2.195	101	75 - 125

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Phosphorous		2	2.62	mg/L	1	0.500	2.195	85	75 - 125	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: 356738

QC Batch: 110166
Prep Batch: 93148

Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1690	mg/L	55.6	1390	289	101	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1700	mg/L	55.6	1390	289	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: 356738

QC Batch: 110166
Prep Batch: 93148

Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	277	mg/L	55.6	278	<2.08	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	277	mg/L	55.6	278	<2.08	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: 356898

QC Batch: 110383
Prep Batch: 93337

Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07

Analyzed By: RL
Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		2	3850	mg/L	100	2500	986	114	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		2	3780	mg/L	100	2500	986	112	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: 356898

QC Batch: 110383
Prep Batch: 93337

Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07

Analyzed By: RL
Prepared By: RL

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		2	559	mg/L	100	500	<1.38	112	80 - 120

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec.		RPD
			Result	Units					Limit	RPD	
Nitrate-N		2	534	mg/L	100	500	<1.38	107	80 - 120	5	20

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

Matrix Spike (MS-1) Spiked Sample: 356892

QC Batch: 110475
Prep Batch: 93403

Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24

Analyzed By: CF
Prepared By: CF

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec.	
			Result	Units					Limit	RPD
Total Kjeldahl Nitrogen - N		2	840	mg/L	10	500	399	88	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.		RPD
			Result	Units					Limit	RPD	
Total Kjeldahl Nitrogen - N		2	889	mg/L	10	500	399	98	80 - 120	6	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: 110098

Date Analyzed: 2014-03-12

Analyzed By: LM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.07	101	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110098

Date Analyzed: 2014-03-12

Analyzed By: LM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Phosphorous		2	mg/L	5.00	5.35	107	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-07

Standard (CCV-1)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-07

Standard (CCV-2)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-07

Standard (CCV-2)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-03-07

Standard (CCV-3)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-07

Standard (CCV-3)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-03-07

Standard (CCV-4)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-03-07

Standard (CCV-4)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.99	100	90 - 110	2014-03-07

Standard (CCV-1)

QC Batch: 110383

Date Analyzed: 2014-03-07

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		2	mg/L	25.0	25.9	104	90 - 110	2014-03-07

Standard (CCV-1)

QC Batch: 110383

Date Analyzed: 2014-03-07

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		2	mg/L	5.00	5.04	101	90 - 110	2014-03-07

Standard (CCV-2)

QC Batch: 110383

Date Analyzed: 2014-03-07

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		2	mg/L	25.0	23.5	94	90 - 110	2014-03-07

Standard (CCV-2)

QC Batch: 110383

Date Analyzed: 2014-03-07

Analyzed By: RL

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		2	mg/L	5.00	4.79	96	90 - 110	2014-03-07

Standard (ICV-1)

QC Batch: 110475

Date Analyzed: 2014-03-24

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-24

Standard (CCV-1)

QC Batch: 110475

Date Analyzed: 2014-03-24

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.18	104	85 - 115	2014-03-24

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.400	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.0300	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
P, Total	S 6010C	water	PE 8300	Total Phosphorous	0.100	Pass
TDS	SM 2540C	water	N/A	Total Dissolved Solids	0.00	-
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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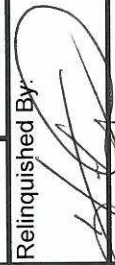
Company Name: 1915-859-8150
Phone #: 915-859-8150
Cell #:
Address: (Street, City, Zip)
Fax #: vajala@dhpump.com
E-mail: vajala@dhpump.com

D&H Petroleum & Environmental Services
1221 Tower Trail Ln, El Paso TX 79907
Contact Person:
Victor Ayala

Invoice to (if different from above):
Sunset Dairy, PO Box 10, Mesquite, NM 88048
Project Name:
Sunset Dairy
Project #: 435922

Project Location (including state):
Sunset Dairy, 1790
Sampler Signature: 

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE
3568446	257-01	1		X				X				X	3-6-14	1051
J -2	257-01	1		X				X				X	1057	
35685-1	257-02	1		X				X				X	1023	
J -2	257-02	1		X				X				X	1023	
35686-1	257-03	1		X				X				X	1210	
J -2	257-03	1		X				X				X	1210	
35687-1	257/260-01	1		X				X				X	1424	
J -2	257/260-01	1		X				X				X	1424	
35688-1	257 Lagoon	1		X				X				X	1122	
-2	257 Lagoon	1		X				X				X	1122	
-3	257 Lagoon	1		X				X				X	3-6-14	1122

Relinquished By:  Date: 3-6-14 15:33
 Received By: MRC TAEP Date: 3-6-14 15:35
 Relinquished By: MRC TAEP Date: 3-6-14 16:30
 Received at Laboratory By: MRC TAEP Date: 3-6-14 15:35
 Time: 9:00
 Log-in Review Y
 Headspace Y / N
 Intact Y / N
 Lab Use Only

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 14030652

ANALYSIS REQUEST

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

Remarks: on ice
TKN analysis in subbook
+ p 15: 485910343
 Dry Weight Basis Required
 TRRP Report Required
 3-6-4



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

Jerry Settles
 Del Oro Dairy, LLC.
 1025 East O'Hara
 P.O. Box 1846
 Anthony, NM, 88021

Report Date: March 27, 2014

Work Order: 14030745



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
357166	692-02	water	2014-03-07	10:19	2014-03-07
357167	692-04	water	2014-03-07	12:08	2014-03-07
357168	692-06	water	2014-03-07	08:25	2014-03-07
357169	692-Lagoon	water	2014-03-07	08:56	2014-03-07

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

This report consists of a total of 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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QC Batch 110167 - CCV (2)	20
QC Batch 110167 - CCV (2)	20
QC Batch 110167 - CCV (3)	20
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Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2014-03-07 and assigned to work order 14030745. Samples for work order 14030745 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	93148	2014-03-07 at 13:53	110166	2014-03-07 at 13:53
Chloride (IC)	E 300.0	93149	2014-03-07 at 22:57	110167	2014-03-07 at 22:57
NO3 (IC)	E 300.0	93148	2014-03-07 at 13:53	110166	2014-03-07 at 13:53
NO3 (IC)	E 300.0	93149	2014-03-07 at 22:57	110167	2014-03-07 at 22:57
TDS	SM 2540C	93065	2014-03-11 at 15:30	110058	2014-03-11 at 15:30
TKN	E 351.3	93401	2014-03-24 at 11:15	110473	2014-03-24 at 16:00

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 14030745 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: 357166 - 692-02

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93148 Sample Preparation: 2014-03-07 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	912	912	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 357166 - 692-02

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93148 Sample Preparation: 2014-03-07 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	129	129	<1.87	mg/L	50	1.87	0.5	0.0374

Sample: 357166 - 692-02

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110058 Date Analyzed: 2014-03-11 Analyzed By: MC
 Prep Batch: 93065 Sample Preparation: 2014-03-11 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	3420	3420	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357166 - 692-02

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110473 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93401 Sample Preparation: 2014-03-24 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 357167 - 692-04

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110167 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93149 Sample Preparation: 2014-03-07 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	581	581	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 357167 - 692-04

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110167 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93149 Sample Preparation: 2014-03-07 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	44.4	44.4	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357167 - 692-04

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110058 Date Analyzed: 2014-03-11 Analyzed By: MC
 Prep Batch: 93065 Sample Preparation: 2014-03-11 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	2290	2290	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357167 - 692-04

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110473 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93401 Sample Preparation: 2014-03-24 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 357168 - 692-06

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110167 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93149 Sample Preparation: 2014-03-07 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	429	429	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 357168 - 692-06

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110167 Date Analyzed: 2014-03-07 Analyzed By: JR
 Prep Batch: 93149 Sample Preparation: 2014-03-07 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	3.03	3.03	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357168 - 692-06

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110058 Date Analyzed: 2014-03-11 Analyzed By: MC
 Prep Batch: 93065 Sample Preparation: 2014-03-11 Prepared By: MC

continued . . .

sample 357168 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1400	1400	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357168 - 692-06

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110473

Prep Batch: 93401

Analytical Method: E 351.3

Date Analyzed: 2014-03-24

Sample Preparation: 2014-03-24

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 357169 - 692-Lagoon

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 110167

Prep Batch: 93149

Analytical Method: E 300.0

Date Analyzed: 2014-03-07

Sample Preparation: 2014-03-07

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	1810	1810	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 357169 - 692-Lagoon

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 110167

Prep Batch: 93149

Analytical Method: E 300.0

Date Analyzed: 2014-03-07

Sample Preparation: 2014-03-07

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	4.20	4.20	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357169 - 692-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110058 Date Analyzed: 2014-03-11 Analyzed By: MC
 Prep Batch: 93065 Sample Preparation: 2014-03-11 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	16400	16400	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357169 - 692-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110473 Date Analyzed: 2014-03-24 Analyzed By: CF
 Prep Batch: 93401 Sample Preparation: 2014-03-24 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	119	119	<16.6	mg/L	10	16.6	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110058
Prep Batch: 93065Date Analyzed: 2014-03-11
QC Preparation: 2014-03-11Analyzed 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: 110166
Prep Batch: 93148Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed 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: 110166
Prep Batch: 93148Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110167
Prep Batch: 93149Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.26	mg/L	0.678

Method Blank (1)QC Batch: 110167
Prep Batch: 93149Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)QC Batch: 110473
Prep Batch: 93401Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 357166QC Batch: 110058
Prep Batch: 93065Date Analyzed: 2014-03-11
QC Preparation: 2014-03-11Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3360	3420	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110058
Prep Batch: 93065Date Analyzed: 2014-03-11
QC Preparation: 2014-03-11Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1020	mg/L	1	1000	<2.50	102	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Dissolved Solids		1	1020	mg/L	1	1000	<2.50	102	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: 110166
Prep Batch: 93148Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.7	mg/L	1	25.0	<0.678	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Chloride		1	24.7	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: 110166
Prep Batch: 93148Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.98	mg/L	1	5.00	<0.0374	100	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.98	mg/L	1	5.00	<0.0374	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: 110167
Prep Batch: 93149

Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Chloride		1	26.3	mg/L	1	25.0	<0.678	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 Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	26.4	mg/L	1	25.0	<0.678	106	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: 110167
Prep Batch: 93149

Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Nitrate-N		1	5.30	mg/L	1	5.00	<0.0374	106	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	5.31	mg/L	1	5.00	<0.0374	106	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: 110473
Prep Batch: 93401

Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	48.3	mg/L	1	50.0	<1.66	97	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Kjeldahl Nitrogen - N		2	46.9	mg/L	1	50.0	<1.66	94	85 - 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: 356738

QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR
Prep Batch: 93148 QC Preparation: 2014-03-07 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1690	mg/L	55.6	1390	289	101	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1700	mg/L	55.6	1390	289	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: 356738

QC Batch: 110166 Date Analyzed: 2014-03-07 Analyzed By: JR
Prep Batch: 93148 QC Preparation: 2014-03-07 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	277	mg/L	55.6	278	<2.08	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	277	mg/L	55.6	278	<2.08	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: 357168QC Batch: 110167
Prep Batch: 93149Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1960	mg/L	55.6	1390	429	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	1950	mg/L	55.6	1390	429	109	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: 357168QC Batch: 110167
Prep Batch: 93149Date Analyzed: 2014-03-07
QC Preparation: 2014-03-07Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	300	mg/L	55.6	278	3.03	107	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	299	mg/L	55.6	278	3.03	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: 357169QC Batch: 110473
Prep Batch: 93401Date Analyzed: 2014-03-24
QC Preparation: 2014-03-24Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	567	mg/L	10	500	119	90	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
Total Kjeldahl Nitrogen - N		2	588	mg/L	10	500	119	94	80 - 120	4	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-07

Standard (CCV-1)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-07

Standard (CCV-2)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-07

Standard (CCV-2)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-03-07

Standard (CCV-3)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-07

Standard (CCV-3)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-03-07

Standard (CCV-4)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-03-07

Standard (CCV-4)

QC Batch: 110166

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.99	100	90 - 110	2014-03-07

Standard (CCV-1)

QC Batch: 110167

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-03-07

Standard (CCV-1)

QC Batch: 110167

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.99	100	90 - 110	2014-03-07

Standard (CCV-2)

QC Batch: 110167

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-07

Standard (CCV-2)

QC Batch: 110167

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-03-07

Standard (CCV-3)

QC Batch: 110167

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-07

Standard (CCV-3)

QC Batch: 110167

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-03-07

Standard (CCV-4)

QC Batch: 110167

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-03-07

Standard (CCV-4)

QC Batch: 110167

Date Analyzed: 2014-03-07

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.99	100	90 - 110	2014-03-07

Standard (ICV-1)

QC Batch: 110473

Date Analyzed: 2014-03-24

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-24

Standard (CCV-1)

QC Batch: 110473

Date Analyzed: 2014-03-24

Analyzed By: CF

Report Date: March 27, 2014

Work Order: 14030745
Del Oro Dairy

Page Number: 22 of 24
1025 East OHara, Anthony, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.04	101	85 - 115	2014-03-24

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
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.

Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

TraceAnalysis, Inc.

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

Phone #: 915-859-8150

Cell #:

Fax #:

E-mail: yajala@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):
Del Oro Dairy, PO Box 1846, Anthony, TX 88021

Project #: 435923

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

Project Name: Jerry Settles 575-882-4331

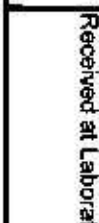
Sampler Signature: 

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					DATE	TIME
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE		
692-01		1		X				X	X	X	X			
692-01		1		X				X	X	X	X			
692-02		1		X				X	X	X	X			
692-02		1		X				X	X	X	X			
692-04		1		X				X	X	X	X			
692-04		1		X				X	X	X	X			
692-05		1		X				X	X	X	X			
692-05		1		X				X	X	X	X			
692-06		1		X				X	X	X	X			
692-06		1		X				X	X	X	X			
692-07		1		X				X	X	X	X			
692-07		1		X				X	X	X	X			
692-08		1		X				X	X	X	X			
692-08		1		X				X	X	X	X			
692-09		1		X				X	X	X	X			
692-09		1		X				X	X	X	X			
692-09		1		X				X	X	X	X			

Relinquished By:  Date: 3-7-14 Time: 12:45

Received By:  Date: 3-7-14 Time: 12:45

Relinquished By:  Date: 3-7-14 Time: 12:30

Received at Laboratory By:  Date: 3-7-14 Time: 12:45

Lab Use Only
Initial DN
Headspace Y / N
Temp 2
Log-in Review PPH

Remarks: ON ILL
TRIS analysis in Substrate
Dry Weight Basis Required
TRRP Report Required

MTBE 8021B/602	X
BTEX 8021B/602	X
TPH 418.1 / TX1005	X
TX 1005 Extended (C35)	X
PAH 8270C	X
PAH 8270 (Low Level Analysis)	X
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 Kjeldhal Nitrogen SM 4500 NORG C	X
Phosphorus SM 4500	X
Turn Around Time	
Hold	

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 141030245

ANALYSIS REQUEST

Lubbock, TX 79424
 Tel (806) 794-1286
 Fax (806) 794-1288
TraceAnalysis, Inc.
 Paso, TX 79932
 Tel (915) 585-3443
 Fax (915) 585-4944

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

Invoice to (if different from above):
 Del Oro Dairy, PO Box 1846, Anthony, TX 88021
Project #: 435923
Project Name: Jerry Settles 575-882-4331
Project Location (including state): Del Oro Dairy, 1025 East O'Hara, Anthony, NM
Sampler Signature:

LAB USE (LAB ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME	Lab Use Only				
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH			ICE	NONE	Intact Y/N	Headspace Y/N	
357/604	692 Lagoon	1	250ml	X						X								
-2	692 Lagoon	1	250ml	X							X							

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # 14030745
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
 Hck

Relinquished By: [Signature] Date: 3-7-14 Time: 12:45
Received By: [Signature] Date: 3-7-14 Time: 12:45
Received at Laboratory By: [Signature] Date: 3-7-14 Time: 12:45
Lab Use Only: Intact Y/N Headspace Y/N Temp Log-in Review
Remarks: MISE
 TKN analysis in database
 Dry Weight Basis Required
 TRRP Report Required

Relinquished By: [Signature]
 Date: 3-7-14 Time: 12:45
 Received at Laboratory By: [Signature]
 Date: 3-7-14 Time: 12:45

3-7-14

Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

TraceAnalysis, Inc.

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

Phone #: 915-859-8150

Cell #:

Fax #:

E-mail: yajala@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):

Del Oro Dairy, PO Box 1846, Anthony, TX 88021

Project #:

435923

Project Location (including state):

Del Oro Dairy, 1025 East O'Hara, Anthony, NM

Project Name:

Jerry Settles 575-882-4331

Sampler Signature:

[Signature]

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD					DATE	TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE			NONE
692-01		1		X				X							
692-01		1		X				X							
692-02		1		X				X							
692-02		1		X				X							
692-04		1		X				X							
692-04		1		X				X							
692-05		1		X				X							
692-05		1		X				X							
692-06		1		X				X							
692-06		1		X				X							
692-07		1		X				X							
692-07		1		X				X							
692-08		1		X				X							
692-08		1		X				X							
692-09		1		X				X							
692-09		1		X				X							
692-09		1		X				X							

LAB Use Only	Initial	Headspace	Temp	Log-in Review	Remarks:
	DN	Y/N	2	PPH	ON file
					TRIS analysis in Substrate
					Dry Weight Basis Required
					TRRP Report Required

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
LAB Order ID # 141030245
ANALYSIS REQUEST
Page 1 of 2

MTBE 8021B/602	X
BTEX 8021B/602	X
TPH 418.1 / TX1005	X
TX 1005 Extended (C35)	X
PAH 8270C	X
PAH 8270 (Low Level Analysis)	X
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 Kjeldhal Nitrogen SM 4500 NORG C	X
Phosphorus SM 4500	X
Turn Around Time	
Hold	

Relinquished By: *[Signature]*
Date: 3-7-14
Time: 12:45

Received By: *[Signature]*
Date: 3-7-14
Time: 12:45

Received at Laboratory By: *[Signature]*
Date: 3-7-14
Time: 12:45

2-7-14


(6)

Lubbock, TX 79424
 Tel (806) 794-1298
 Fax (806) 794-1298
 Project Location (Including state):
 Del Oro Dairy, 1025 East O'Hara, Anthony, NM

Paso, TX 79932
 Tel (915) 585-3443
 Fax (915) 585-4944
 Page 2 of 2

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

Project Name: Jerry Settles 575-882-4331
 Project #: 435923
 Del Oro Dairy
 Sampler Signature: 

Invoice to (if different from above):
 Del Oro Dairy, PO Box 1846, Anthony, TX 88021

Chain-of-Custody and Analysis Request
 Lab Order ID # 14030745

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	TIME	
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH			ICE
353/692	692 Lagoon	1	250ml	X						X			3-2-14	8:56
-2	692 Lagoon	1	250ml	X							X		3-2-14	8:56

Lab Use Only	Remarks:
Inact <input checked="" type="checkbox"/> Y <input type="checkbox"/> N Headspace <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Temp <input type="checkbox"/> Y <input checked="" type="checkbox"/> N Log-in Review <input checked="" type="checkbox"/>	TRN analysis in database (2)

Relinquished By:  Date: 3-7-14 Time: 12:45
 Received By:  Date: 3-7-14 Time: 12:45
 Relinquished By:  Date: 3-7-14 Time: 16:30
 Received at Laboratory By:  Date: 3-7-14 Time: 12:45

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

LAB Order ID # 14030745

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

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				DATE	SAMPLING TIME	
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE			NONE
692-01		1		X				X						
692-01		1		X				X						
357166-1		1		X				X				3-7-14	10:19	
L-2		1		X				X				3-7-14	10:19	
357167-1		1		X				X				3-7-14	12:08	
L-2		1		X				X				3-7-14	12:08	
692-05		1		X				X						
692-05		1		X				X						
357168-1		1		X				X				3-7-14	8:25	
L-2		1		X				X				3-7-14	8:25	
692-07		1		X				X						
692-07		1		X				X						
692-08		1		X				X						
692-08		1		X				X						
692-09		1		X				X						
692-09		1		X				X						

Relinquished By: [Signature] Date: 3-7-14 Time: 12:45

Received By: URC TAEP Date: 3-7-14 Time: 12:45

Relinquished By: URC TAEP Date: 3-7-14 Time: 14:30

Received at Laboratory By: [Signature] Date: 3-7-14 Time: 9:25

Lab Use Only
 Intact Y N
 Headspace Y N
 Temp 2
 Log-in Review PPH

Remarks: ON Ill
TRN analysis in Lubbock

Dry Weight Basis Required
 TRRP Report Required

TraceAnalysis, Inc.
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

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

Project Name: Jerry Settles 575-882-4331
 Del Oro Dairy
 Project Location (including state):
 Del Oro Dairy, 1025 East O'Hara, Anthony, NIM

Sampler Signature: [Signature]

3-7-14
 48590345

TraceAnalysis, Inc.

Lubbock, TX 79424 Tel (806) 794-1296 Fax (806) 794-1298
Pasadena, TX 79932 Tel (915) 585-3443 Fax (915) 585-4944
Page 2 of 2
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name:

Phone #: 915-859-8150

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):

Del Oro Dairy, PO Box 1846, Anthony, TX 88021

Jerry Settles 575-882-4331

Project #:

435923

Project Name:

Del Oro Dairy

Project Location (including state):

Del Oro Dairy, 1025 East O'Hara, Anthony, NM

Sampler Signature:

MATRIX

PRESERVATIVE METHOD

SAMPLING

LAB # (LAB USE ONLY)
357169-1
-2

Field Code
692 Lagoon
692 Lagoon

Containers
1
1

Volume/Amount
250ml
250ml

WATER
AIR
SOIL
SLUDGE

HCl
HNO₃
H₂SO₄
NaOH
ICE
NONE

DATE
3-2-14
3-7-14

TIME
8:56
8:56

ANALYSIS REQUEST

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

Remarks: ON ICE
TKN analysis in Jumbo 2

Dry Weight Basis Required
TRRP Report Required

Lab Use Only
Intact Y N
Headspace Y N
Temp IKL 2
Log-in Review DDK

Relinquished By: [Signature] Date: 3-7-14 Time: 12:45
Received By: MRC TAEP Date: 3-7-14 Time: 12:45

Relinquished By: MRC TAEP Date: 3-7-14 Time: 10:30
Received at Laboratory By: [Signature] Date: 3/8/14 Time: 9:25

1235.2/5.0 3-7-14 LS 48590345



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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: March 27, 2014

Work Order: 14031441



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
358041	692-05	water	2014-03-14	12:12	2014-03-14
358042	692-07	water	2014-03-14	10:18	2014-03-14
358043	692-08	water	2014-03-14	11:16	2014-03-14
358044	692-09	water	2014-03-14	09:21	2014-03-14

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 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 Del Oro Dairy were received by TraceAnalysis, Inc. on 2014-03-14 and assigned to work order 14031441. Samples for work order 14031441 were received intact at a temperature of 1.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	93206	2014-03-14 at 18:53	110230	2014-03-14 at 18:53
NO3 (IC)	E 300.0	93206	2014-03-14 at 18:53	110230	2014-03-14 at 18:53
TDS	SM 2540C	93217	2014-03-17 at 14:00	110246	2014-03-17 at 14:00
TKN	SM 4500-NH3 B,C	93514	2014-03-27 at 10:10	110596	2014-03-27 at 15:35

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 14031441 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: 358041 - 692-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	452	452	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 358041 - 692-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	1.67	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358041 - 692-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110246 Date Analyzed: 2014-03-17 Analyzed By: MC
 Prep Batch: 93217 Sample Preparation: 2014-03-17 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	Qs	1	1440	1440	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358042 - 692-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A

Report Date: March 27, 2014

Work Order: 14031441
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QC Batch: 110230
Prep Batch: 93206

Date Analyzed: 2014-03-14
Sample Preparation: 2014-03-14

Analyzed By: JR
Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	544	544	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 358042 - 692-07

Laboratory: El Paso
Analysis: NO3 (IC)
QC Batch: 110230
Prep Batch: 93206

Analytical Method: E 300.0
Date Analyzed: 2014-03-14
Sample Preparation: 2014-03-14

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	3.26	3.26	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358042 - 692-07

Laboratory: El Paso
Analysis: TDS
QC Batch: 110246
Prep Batch: 93217

Analytical Method: SM 2540C
Date Analyzed: 2014-03-17
Sample Preparation: 2014-03-17

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		Qs 1	1580	1580	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358042 - 692-07

Laboratory: Lubbock
Analysis: TKN
QC Batch: 110596
Prep Batch: 93514

Analytical Method: SM 4500-NH3 B,C
Date Analyzed: 2014-03-27
Sample Preparation: 2014-03-27

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

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		u 2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 358043 - 692-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	435	435	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 358043 - 692-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	4.27	4.27	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358043 - 692-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110246 Date Analyzed: 2014-03-17 Analyzed By: MC
 Prep Batch: 93217 Sample Preparation: 2014-03-17 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids	Qs	1	1430	1430	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358043 - 692-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110596 Date Analyzed: 2014-03-27 Analyzed By: CF
 Prep Batch: 93514 Sample Preparation: 2014-03-27 Prepared By: CF

continued ...

sample 358043 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 358044 - 692-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	453	453	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 358044 - 692-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	6.08	6.08	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358044 - 692-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110246 Date Analyzed: 2014-03-17 Analyzed By: MC
 Prep Batch: 93217 Sample Preparation: 2014-03-17 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids	Qs	1	1460	1460	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358044 - 692-09

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110596

Prep Batch: 93514

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-03-27

Sample Preparation: 2014-03-27

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.678

Method Blank (1)

QC Batch: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110246
Prep Batch: 93217Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed 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: 110596
Prep Batch: 93514Date Analyzed: 2014-03-27
QC Preparation: 2014-03-27Analyzed By: CF
Prepared By: CF

Report Date: March 27, 2014

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 357828

QC Batch: 110246
Prep Batch: 93217

Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2820	2820	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
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			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	24.2	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: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	5.11	mg/L	1	5.00	<0.0374	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 Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	5.07	mg/L	1	5.00	<0.0374	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: 110246
Prep Batch: 93217Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed By: MC
Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Total Dissolved Solids		1	1020	mg/L	1	0.00	<2.50	10	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids	qs	1	1000	mg/L	1	0.00	<2.50	0	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: 110596
Prep Batch: 93514

Date Analyzed: 2014-03-27
QC Preparation: 2014-03-27

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.66	87	85 - 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	46.9	mg/L	1	50.0	<1.66	94	85 - 115	8	20

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

Matrix Spike (MS-1) Spiked Sample: 358042

QC Batch: 110230
Prep Batch: 93206

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2020	mg/L	55.6	1390	544	106	80 - 120

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2000	mg/L	55.6	1390	544	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: 358042

QC Batch: 110230
Prep Batch: 93206

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	293	mg/L	55.6	278	3.26	104	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	289	mg/L	55.6	278	3.26	103	80 - 120	1	20

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

Matrix Spike (MS-1) Spiked Sample: 358117

QC Batch: 110596
Prep Batch: 93514

Date Analyzed: 2014-03-27
QC Preparation: 2014-03-27

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	85.4	mg/L	2	100	<3.32	85	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
Total Kjeldahl Nitrogen - N		2	91.0	mg/L	2	100	<3.32	91	80 - 120	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: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-14

Standard (CCV-1)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.18	104	90 - 110	2014-03-14

Standard (CCV-2)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-14

Standard (CCV-2)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.18	104	90 - 110	2014-03-14

Standard (CCV-3)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-14

Standard (CCV-3)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.19	104	90 - 110	2014-03-14

Standard (CCV-4)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-14

Standard (CCV-4)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.18	104	90 - 110	2014-03-14

Standard (ICV-1)

QC Batch: 110596

Date Analyzed: 2014-03-27

Analyzed By: CF

Report Date: March 27, 2014

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.48	90	85 - 115	2014-03-27

Standard (CCV-1)

QC Batch: 110596

Date Analyzed: 2014-03-27

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.90	98	85 - 115	2014-03-27

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.



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Dona Ana Dairies

Report Date: March 27, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14031717



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
358115	DAD-11	water	2014-03-17	11:32	2014-03-17
358116	DAD-12	water	2014-03-17	13:44	2014-03-17
358117	DAD-13	water	2014-03-17	12:04	2014-03-17
358118	DAD-14	water	2014-03-17	12:38	2014-03-17
358119	DAD-15	water	2014-03-17	09:46	2014-03-17

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

This report consists of a total of 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 2014-03-17 and assigned to work order 14031717. Samples for work order 14031717 were received intact at a temperature of 1.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	93236	2014-03-17 at 17:12	110266	2014-03-17 at 17:12
NO3 (IC)	E 300.0	93236	2014-03-17 at 17:12	110266	2014-03-17 at 17:12
TDS	SM 2540C	93267	2014-03-18 at 13:20	110308	2014-03-18 at 13:20
TKN	SM 4500-NH3 B,C	93514	2014-03-27 at 10:10	110596	2014-03-27 at 15:35

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 14031717 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: 358115 - DAD-11

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110266 Date Analyzed: 2014-03-17 Analyzed By: JR
 Prep Batch: 93236 Sample Preparation: 2014-03-17 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	890	890	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 358115 - DAD-11

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110266 Date Analyzed: 2014-03-17 Analyzed By: JR
 Prep Batch: 93236 Sample Preparation: 2014-03-17 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	12.0	12.0	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358115 - DAD-11

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110308 Date Analyzed: 2014-03-18 Analyzed By: MC
 Prep Batch: 93267 Sample Preparation: 2014-03-18 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	3230	3230	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358115 - DAD-11

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110596 Date Analyzed: 2014-03-27 Analyzed By: CF
 Prep Batch: 93514 Sample Preparation: 2014-03-27 Prepared By: CF

Report Date: March 27, 2014

Work Order: 14031717
 Dona Ana Dairies Consortium

Page Number: 6 of 19
 Various Dairies, Dona Ana County, NM

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 358116 - DAD-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110266 Date Analyzed: 2014-03-17 Analyzed By: JR
 Prep Batch: 93236 Sample Preparation: 2014-03-17 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	621	621	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 358116 - DAD-12

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110266 Date Analyzed: 2014-03-17 Analyzed By: JR
 Prep Batch: 93236 Sample Preparation: 2014-03-17 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	20.5	20.5	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358116 - DAD-12

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110308 Date Analyzed: 2014-03-18 Analyzed By: MC
 Prep Batch: 93267 Sample Preparation: 2014-03-18 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2890	2890	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358116 - DAD-12

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110596 Date Analyzed: 2014-03-27 Analyzed By: CF
 Prep Batch: 93514 Sample Preparation: 2014-03-27 Prepared By: CF

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: 358117 - DAD-13

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110266 Date Analyzed: 2014-03-17 Analyzed By: JR
 Prep Batch: 93236 Sample Preparation: 2014-03-17 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	528	528	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 358117 - DAD-13

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110266 Date Analyzed: 2014-03-17 Analyzed By: JR
 Prep Batch: 93236 Sample Preparation: 2014-03-17 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	6.59	6.59	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358117 - DAD-13

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110308 Date Analyzed: 2014-03-18 Analyzed By: MC
 Prep Batch: 93267 Sample Preparation: 2014-03-18 Prepared By: MC

continued . . .

sample 358117 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1960	1960	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358117 - DAD-13

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110596

Prep Batch: 93514

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-03-27

Sample Preparation: 2014-03-27

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<3.32	<20.0	<3.32	mg/L	2	3.32	10	1.66

Sample: 358118 - DAD-14

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 110266

Prep Batch: 93236

Analytical Method: E 300.0

Date Analyzed: 2014-03-17

Sample Preparation: 2014-03-17

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	1040	1040	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 358118 - DAD-14

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 110266

Prep Batch: 93236

Analytical Method: E 300.0

Date Analyzed: 2014-03-17

Sample Preparation: 2014-03-17

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	41.3	41.3	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358118 - DAD-14

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110308 Date Analyzed: 2014-03-18 Analyzed By: MC
 Prep Batch: 93267 Sample Preparation: 2014-03-18 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3620	3620	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358118 - DAD-14

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110596 Date Analyzed: 2014-03-27 Analyzed By: CF
 Prep Batch: 93514 Sample Preparation: 2014-03-27 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 358119 - DAD-15

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110266 Date Analyzed: 2014-03-17 Analyzed By: JR
 Prep Batch: 93236 Sample Preparation: 2014-03-17 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	519	519	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 358119 - DAD-15

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110266 Date Analyzed: 2014-03-17 Analyzed By: JR
 Prep Batch: 93236 Sample Preparation: 2014-03-17 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	5.00	5.00	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358119 - DAD-15

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110308 Date Analyzed: 2014-03-18 Analyzed By: MC
 Prep Batch: 93267 Sample Preparation: 2014-03-18 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	1820	1820	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358119 - DAD-15

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110596 Date Analyzed: 2014-03-27 Analyzed By: CF
 Prep Batch: 93514 Sample Preparation: 2014-03-27 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110266
Prep Batch: 93236Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed 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: 110266
Prep Batch: 93236Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110308
Prep Batch: 93267Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18Analyzed 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: 110596
Prep Batch: 93514Date Analyzed: 2014-03-27
QC Preparation: 2014-03-27Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 358115

QC Batch: 110308
 Prep Batch: 93267

Date Analyzed: 2014-03-18
 QC Preparation: 2014-03-18

Analyzed By: MC
 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	3260	3230	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110266 Date Analyzed: 2014-03-17 Analyzed By: JR
 Prep Batch: 93236 QC Preparation: 2014-03-17 Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Chloride		1	25.3	mg/L	1	25.0	<0.678	101	90 - 110

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

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Chloride		1	25.3	mg/L	1	25.0	<0.678	101	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110266 Date Analyzed: 2014-03-17 Analyzed By: JR
 Prep Batch: 93236 QC Preparation: 2014-03-17 Prepared By: JR

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units	Dil.				
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	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 Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units	Dil.						
Nitrate-N		1	5.09	mg/L	1	5.00	<0.0374	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: 110308 Date Analyzed: 2014-03-18 Analyzed By: MC
 Prep Batch: 93267 QC Preparation: 2014-03-18 Prepared By: MC

Param	F	C	LCS			Spike Amount	Matrix Result	Rec.	Rec. 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	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
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: 110596
 Prep Batch: 93514

Date Analyzed: 2014-03-27
 QC Preparation: 2014-03-27

Analyzed By: CF
 Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.66	87	85 - 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	46.9	mg/L	1	50.0	<1.66	94	85 - 115	8	20

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

Matrix Spike (MS-1) Spiked Sample: 358119

QC Batch: 110266
 Prep Batch: 93236

Date Analyzed: 2014-03-17
 QC Preparation: 2014-03-17

Analyzed By: JR
 Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	2010	mg/L	55.6	1390	519	107	80 - 120

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2010	mg/L	55.6	1390	519	107	80 - 120	0	20

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

Matrix Spike (MS-1) Spiked Sample: 358119

QC Batch: 110266
 Prep Batch: 93236

Date Analyzed: 2014-03-17
 QC Preparation: 2014-03-17

Analyzed By: JR
 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	288	mg/L	55.6	278	5	102	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	288	mg/L	55.6	278	5	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: 358117

QC Batch: 110596
 Prep Batch: 93514

Date Analyzed: 2014-03-27
 QC Preparation: 2014-03-27

Analyzed By: CF
 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	85.4	mg/L	2	100	<3.32	85	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
Total Kjeldahl Nitrogen - N		2	91.0	mg/L	2	100	<3.32	91	80 - 120	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: 110266

Date Analyzed: 2014-03-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-17

Standard (CCV-1)

QC Batch: 110266

Date Analyzed: 2014-03-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-03-17

Standard (CCV-2)

QC Batch: 110266

Date Analyzed: 2014-03-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-17

Standard (CCV-2)

QC Batch: 110266

Date Analyzed: 2014-03-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-03-17

Standard (CCV-3)

QC Batch: 110266

Date Analyzed: 2014-03-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-17

Standard (CCV-3)

QC Batch: 110266

Date Analyzed: 2014-03-17

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.94	99	90 - 110	2014-03-17

Standard (ICV-1)

QC Batch: 110596

Date Analyzed: 2014-03-27

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.48	90	85 - 115	2014-03-27

Standard (CCV-1)

QC Batch: 110596

Date Analyzed: 2014-03-27

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.90	98	85 - 115	2014-03-27

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.



6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800-378-1296 806-794-1296 FAX 806-794-1298
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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

Jerry Settles
 Del Oro Dairy, LLC.
 1025 East O'Hara
 P.O. Box 1846
 Anthony, NM, 88021

Report Date: April 1, 2014

Work Order: 14031332



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
357828	692-01	water	2014-03-13	15:05	2014-03-13

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

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

Notes:

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

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

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Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2014-03-13 and assigned to work order 14031332. Samples for work order 14031332 were received intact at a temperature of 4.4 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	93206	2014-03-14 at 18:53	110230	2014-03-14 at 18:53
NO3 (IC)	E 300.0	93206	2014-03-14 at 18:53	110230	2014-03-14 at 18:53
TDS	SM 2540C	93217	2014-03-17 at 14:00	110246	2014-03-17 at 14:00
TKN	E 351.3	93599	2014-03-31 at 11:45	110703	2014-03-31 at 16:00

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 14031332 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: 357828 - 692-01

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	647	647	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 357828 - 692-01

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 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	97.8	97.8	<1.87	mg/L	50	1.87	0.5	0.0374

Sample: 357828 - 692-01

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110246 Date Analyzed: 2014-03-17 Analyzed By: MC
 Prep Batch: 93217 Sample Preparation: 2014-03-17 Prepared By: MC

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids	qs	1	2820	2820	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357828 - 692-01

Laboratory: Lubbock
 Analysis: TKN Analytical Method: E 351.3 Prep Method: N/A
 QC Batch: 110703 Date Analyzed: 2014-03-31 Analyzed By: CF
 Prep Batch: 93599 Sample Preparation: 2014-03-31 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank			(Unadjusted)	(Unadjusted)	
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.678

Method Blank (1)

QC Batch: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110246
Prep Batch: 93217Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed 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: 110703
Prep Batch: 93599Date Analyzed: 2014-03-31
QC Preparation: 2014-03-31Analyzed By: CF
Prepared By: CF

Report Date: April 1, 2014

Work Order: 14031332
Del Oro Dairy

Page Number: 7 of 15
1025 East OHara, Anthony, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 357828

QC Batch: 110246

Date Analyzed: 2014-03-17

Analyzed By: MC

Prep Batch: 93217

QC Preparation: 2014-03-17

Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2820	2820	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.3	mg/L	1	25.0	<0.678	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.2	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: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.11	mg/L	1	5.00	<0.0374	102	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	5.07	mg/L	1	5.00	<0.0374	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: 110246
Prep Batch: 93217Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1020	mg/L	1	0.00	<2.50	10	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids	qs	1	1000	mg/L	1	0.00	<2.50	0	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: 110703
Prep Batch: 93599

Date Analyzed: 2014-03-31
QC Preparation: 2014-03-31

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	85 - 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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	85 - 115	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: 358042

QC Batch: 110230
Prep Batch: 93206

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Chloride		1	2020	mg/L	55.6	1390	544	106	80 - 120

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

Param	F	C	MSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Chloride		1	2000	mg/L	55.6	1390	544	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: 358042

QC Batch: 110230
Prep Batch: 93206

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	293	mg/L	55.6	278	3.26	104	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Nitrate-N		1	289	mg/L	55.6	278	3.26	103	80 - 120	1	20

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

Matrix Spike (MS-1) Spiked Sample: 358937

QC Batch: 110703
Prep Batch: 93599

Date Analyzed: 2014-03-31
QC Preparation: 2014-03-31

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	42.0	mg/L	1	50.0	<1.66	84	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2	42.0	mg/L	1	50.0	<1.66	84	80 - 120	0	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-14

Standard (CCV-1)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.18	104	90 - 110	2014-03-14

Standard (CCV-2)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-14

Standard (CCV-2)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.18	104	90 - 110	2014-03-14

Standard (CCV-3)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-14

Standard (CCV-3)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.19	104	90 - 110	2014-03-14

Standard (CCV-4)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-14

Standard (CCV-4)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.18	104	90 - 110	2014-03-14

Standard (ICV-1)

QC Batch: 110703

Date Analyzed: 2014-03-31

Analyzed By: CF

Report Date: April 1, 2014

Work Order: 14031332
Del Oro Dairy

Page Number: 13 of 15
1025 East OHara, Anthony, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-31

Standard (CCV-1)

QC Batch: 110703

Date Analyzed: 2014-03-31

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.90	98	85 - 115	2014-03-31

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	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
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1	NELAP	T104704221-12-3	El Paso
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Standard Flags

F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration found in the method blank. The result should be considered non-detect to the SDL.
Je	Estimated concentration exceeding calibration range.
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

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Please note, each attachment may consist of more than one page.

TraceAnalysis, Inc.

100 McCumber St. Ft. Worth, TX 76102
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298


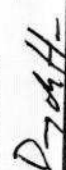
Company Name: _____
 D&H Petroleum & Environmental Services
 Address: (Street, City, Zip)
 1221 Tower Trail Ln, El Paso TX 79907
 Contact Person: _____
 Victor Ayala
 Phone #: 915-859-8150
 Cell #: _____
 Fax #: _____
 E-mail: vajala@dhpump.com

Invoice to (if different from above):
 Del Oro Dairy, PO Box 1846, Anthony, TX 88021
 Project #: _____

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

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

LAB #	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling			
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME	
357 828	692-01	1	250ml	X				X						3-13-14	1505
	692-01	1	250ml	X				X						3-13-14	1505
	692-02	1		X				X							
	692-02	1		X				X							
	692-04	1		X				X							
	692-04	1		X				X							
	692-05	1		X				X							
	692-05	1		X				X							
	692-06	1		X				X							
	692-06	1		X				X							
	692-07	1		X				X							
	692-07	1		X				X							
	692-08	1		X				X							
	692-08	1		X				X							
	692-09	1		X				X							
	692-09	1		X				X							

Relinquished By:  Date: 3-13-14 Time: 16:03
 Received at Laboratory By:  Date: 3-13-14 Time: 16:03
 Relinquished By: _____ Date: _____ Time: _____
 Received at Laboratory By: _____ Date: _____ Time: _____

ANALYSIS REQUEST	Hold
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/2007	X
Nitrate as Nitrogen EPA 300.0	X
Chloride EPA Method 300.0	X
Sulfate EPA Method 300.0	X
Total Dissolved Solids SM 2540 C MOD	X
Total Kjeldahl Nitrogen SM 4500 NORG C	X
Phosphorus SM 4500	X
Turn Around Time	

Remarks: _____
 Lab Use Only
 Intact Y N
 Headspace Y N
 Temp 1A 1B 1C
 Log-in Review Y N
 Dry Weight Basis Required
 TRRP Report Required

14031332

LAB Order ID # 14031332

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

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 NORGC

Phosphorus SM 4500

Turn Around Time

Hold

LAB #	LAB USE ONLY	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING			
					WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME	
357828		692-01	1	250ml	X			X			X				3-13-14	1505
		692-01	1	250ml	X			X			X				3-13-14	1505
		692-02	1		X			X			X					
		692-02	1		X			X			X					
		692-04	1		X			X			X					
		692-04	1		X			X			X					
		692-05	1		X			X			X					
		692-05	1		X			X			X					
		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					

Relinquished By: [Signature] Date: 3-13-14 Time: 16:03

Received By: D. Hoff Date: 3-13-14 Time: 16:03

Lab Use Only: Intact (Y) / N

Headspace Y / N

Temp 14 / 44

Log-in Review [Signature]

Remarks: 1123 URS-0052

Relinquished By: [Signature] Date: 3-14-14 Time: 9:20

Received at Laboratory By: ASL TA Date: 3-14-14 Time: 9:20

Dry Weight Basis Required

TRRP Report Required

CARRY IN

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 Tel (806) 794-1296
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Del Oro Dairy
 Sampler Signatufe: [Signature]

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

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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: April 1, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14031832



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
358325	DAD-09	water	2014-03-18	12:24	2014-03-18
358326	DAD-10	water	2014-03-18	10:11	2014-03-18
358327	DAD-19	water	2014-03-18	09:21	2014-03-18
358328	DAD-20	water	2014-03-18	11:12	2014-03-18
358329	DAD-21	water	2014-03-18	11:53	2014-03-18
358330	DAD-22	water	2014-03-18	12:48	2014-03-18

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 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 Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2014-03-18 and assigned to work order 14031832. Samples for work order 14031832 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	93338	2014-03-18 at 16:48	110384	2014-03-18 at 16:48
NO3 (IC)	E 300.0	93338	2014-03-18 at 16:48	110384	2014-03-18 at 16:48
TDS	SM 2540C	93319	2014-03-20 at 12:15	110366	2014-03-20 at 12:15
TKN	SM 4500-NH3 B,C	93627	2014-04-01 at 10:20	110737	2014-04-01 at 13:40

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14031832 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: 358325 - DAD-09

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110384 Date Analyzed: 2014-03-18 Analyzed By: JR
 Prep Batch: 93338 Sample Preparation: 2014-03-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	418	418	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 358325 - DAD-09

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110384 Date Analyzed: 2014-03-18 Analyzed By: JR
 Prep Batch: 93338 Sample Preparation: 2014-03-18 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	3.44	3.44	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358325 - DAD-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110366 Date Analyzed: 2014-03-20 Analyzed By: MC
 Prep Batch: 93319 Sample Preparation: 2014-03-20 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	1480	1480	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358325 - DAD-09

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110737 Date Analyzed: 2014-04-01 Analyzed By: CF
 Prep Batch: 93627 Sample Preparation: 2014-04-01 Prepared By: CF

Report Date: April 1, 2014

Work Order: 14031832
 Dona Ana Dairies Consortium

Page Number: 6 of 21
 Various Dairies, Dona Ana County, NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 358326 - DAD-10

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110384 Date Analyzed: 2014-03-18 Analyzed By: JR
 Prep Batch: 93338 Sample Preparation: 2014-03-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	475	475	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 358326 - DAD-10

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110384 Date Analyzed: 2014-03-18 Analyzed By: JR
 Prep Batch: 93338 Sample Preparation: 2014-03-18 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	7.79	7.79	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358326 - DAD-10

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110366 Date Analyzed: 2014-03-20 Analyzed By: MC
 Prep Batch: 93319 Sample Preparation: 2014-03-20 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	1620	1620	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358326 - DAD-10

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110737 Date Analyzed: 2014-04-01 Analyzed By: CF
 Prep Batch: 93627 Sample Preparation: 2014-04-01 Prepared By: CF

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: 358327 - DAD-19

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110384 Date Analyzed: 2014-03-18 Analyzed By: JR
 Prep Batch: 93338 Sample Preparation: 2014-03-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	861	861	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 358327 - DAD-19

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110384 Date Analyzed: 2014-03-18 Analyzed By: JR
 Prep Batch: 93338 Sample Preparation: 2014-03-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	50.3	50.3	<0.374	mg/L	10	0.374	0.5	0.0374

Sample: 358327 - DAD-19

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110366 Date Analyzed: 2014-03-20 Analyzed By: MC
 Prep Batch: 93319 Sample Preparation: 2014-03-20 Prepared By: MC

continued . . .

sample 358327 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	3130	3130	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358327 - DAD-19

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110737

Prep Batch: 93627

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-04-01

Sample Preparation: 2014-04-01

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 358328 - DAD-20

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 110384

Prep Batch: 93338

Analytical Method: E 300.0

Date Analyzed: 2014-03-18

Sample Preparation: 2014-03-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	665	665	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 358328 - DAD-20

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 110384

Prep Batch: 93338

Analytical Method: E 300.0

Date Analyzed: 2014-03-18

Sample Preparation: 2014-03-18

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	20.6	20.6	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358328 - DAD-20

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110366 Date Analyzed: 2014-03-20 Analyzed By: MC
 Prep Batch: 93319 Sample Preparation: 2014-03-20 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2120	2120	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358328 - DAD-20

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110737 Date Analyzed: 2014-04-01 Analyzed By: CF
 Prep Batch: 93627 Sample Preparation: 2014-04-01 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 358329 - DAD-21

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110384 Date Analyzed: 2014-03-18 Analyzed By: JR
 Prep Batch: 93338 Sample Preparation: 2014-03-18 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	592	592	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 358329 - DAD-21

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110384 Date Analyzed: 2014-03-18 Analyzed By: JR
 Prep Batch: 93338 Sample Preparation: 2014-03-18 Prepared By: JR

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	18.1	18.1	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358329 - DAD-21

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110366 Date Analyzed: 2014-03-20 Analyzed By: MC
 Prep Batch: 93319 Sample Preparation: 2014-03-20 Prepared By: MC

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Dissolved Solids		1	2140	2140	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358329 - DAD-21

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110737 Date Analyzed: 2014-04-01 Analyzed By: CF
 Prep Batch: 93627 Sample Preparation: 2014-04-01 Prepared By: CF

Parameter	F	C	SDL	MQL	Method	Units	Dilution	SDL	MQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 358330 - DAD-22

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110384 Date Analyzed: 2014-03-18 Analyzed By: JR
 Prep Batch: 93338 Sample Preparation: 2014-03-18 Prepared By: JR

continued ...

sample 358330 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	846	846	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 358330 - DAD-22

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110384 Date Analyzed: 2014-03-18 Analyzed By: JR
 Prep Batch: 93338 Sample Preparation: 2014-03-18 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	6.38	6.38	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358330 - DAD-22

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110366 Date Analyzed: 2014-03-20 Analyzed By: MC
 Prep Batch: 93319 Sample Preparation: 2014-03-20 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2420	2420	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358330 - DAD-22

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110737 Date Analyzed: 2014-04-01 Analyzed By: CF
 Prep Batch: 93627 Sample Preparation: 2014-04-01 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110366
Prep Batch: 93319Date Analyzed: 2014-03-20
QC Preparation: 2014-03-20Analyzed 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: 110384
Prep Batch: 93338Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18Analyzed 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: 110384
Prep Batch: 93338Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110737
Prep Batch: 93627Date Analyzed: 2014-04-01
QC Preparation: 2014-04-01Analyzed By: CF
Prepared By: CF

Report Date: April 1, 2014

Work Order: 14031832
Dona Ana Dairies Consortium

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Various Dairies, Dona Ana County, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 358325

QC Batch: 110366

Date Analyzed: 2014-03-20

Analyzed By: MC

Prep Batch: 93319

QC Preparation: 2014-03-20

Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1490	1480	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110366
Prep Batch: 93319Date Analyzed: 2014-03-20
QC Preparation: 2014-03-20Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. 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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	1010	mg/L	1	1000	<2.50	101	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: 110384
Prep Batch: 93338Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.4	mg/L	1	25.0	<0.678	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.5	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: 110384
Prep Batch: 93338Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.13	mg/L	1	5.00	<0.0374	103	90 - 110

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

Param	LCSD		Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
	F	C								
Nitrate-N		1	5.13 mg/L	1	5.00	<0.0374	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: 110737
Prep Batch: 93627

Date Analyzed: 2014-04-01
QC Preparation: 2014-04-01

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	85 - 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	43.4	mg/L	1	50.0	<1.66	87	85 - 115	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: 358325

QC Batch: 110384
Prep Batch: 93338

Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18

Analyzed By: JR
Prepared By: JR

Param	F	C	MS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Chloride		1	1810	mg/L	55.6	1390	418	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							
Chloride		1	1810	mg/L	55.6	1390	418	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: 358325

QC Batch: 110384
Prep Batch: 93338

Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	289	mg/L	55.6	278	3.44	103	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	290	mg/L	55.6	278	3.44	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: 358407

QC Batch: 110737
 Prep Batch: 93627

Date Analyzed: 2014-04-01
 QC Preparation: 2014-04-01

Analyzed By: CF
 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	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
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	80 - 120	3	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 110384

Date Analyzed: 2014-03-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-03-18

Standard (CCV-1)

QC Batch: 110384

Date Analyzed: 2014-03-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-03-18

Standard (CCV-2)

QC Batch: 110384

Date Analyzed: 2014-03-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-03-18

Standard (CCV-2)

QC Batch: 110384

Date Analyzed: 2014-03-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-03-18

Standard (CCV-3)

QC Batch: 110384

Date Analyzed: 2014-03-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-18

Standard (CCV-3)

QC Batch: 110384

Date Analyzed: 2014-03-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-03-18

Standard (CCV-4)

QC Batch: 110384

Date Analyzed: 2014-03-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-18

Standard (CCV-4)

QC Batch: 110384

Date Analyzed: 2014-03-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.96	99	90 - 110	2014-03-18

Standard (ICV-1)

QC Batch: 110737

Date Analyzed: 2014-04-01

Analyzed By: CF

Report Date: April 1, 2014

Work Order: 14031832
Dona Ana Dairies Consortium

Page Number: 19 of 21
Various Dairies, Dona Ana County, NM

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-04-01

Standard (CCV-1)

QC Batch: 110737

Date Analyzed: 2014-04-01

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.90	98	85 - 115	2014-04-01

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
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	T104704219-14-10	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.

14031832

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

TraceAnalysis, Inc.

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

Page 1 of 1
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: 14031832
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

LAB Order ID # 14031832

Invoice to (if different from above):
Dona Ana Dairies, PO Box 10, Mesquite, NM 88048
Project #: 435912
Project Name: Linda Armstrong 575-233-3620
Dona Ana Dairies Consortium
Sampler Signature: [Signature]

Project Location (including state):
Various Dairies, Dona Ana County, NM

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				SAMPLING		TIME	Turn Around Time	
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE			TIME
358305-1	DAD-# 09	1	250	X				X		X				3-18-14	1224	
↓-1	DAD-# 09	1		X				X		X				1224		
26-1	DAD-# 10	1		X				X		X				1011		
↓-2	DAD-# 10	1		X				X		X				1011		
07-1	DAD-19	1		X				X		X				0921		
↓-2	DAD-19	1		X				X		X				0921		
28-1	DAD-20	1		X				X		X				1112		
↓-2	DAD-20	1		X				X		X				1112		
29-1	DAD-21	1		X				X		X				1153		
↓-2	DAD-21	1		X				X		X				1153		
30-1	DAD-22	1		X				X		X				1248		
↓-2	DAD-22	1		X				X		X				1248		

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

Relinquished By: [Signature] Date: 3-18-14 Time: 14:30
 Relinquished By: [Signature] Date: 3-18-14 Time: 16:30
 Received By: [Signature] Date: 3-18-14 Time: 14:03
 Received at Laboratory By: [Signature] Date: 3-19-14 Time: 9:15
 Lab Use Only
 Intact N
 Headspace Y N
 Temp 112 12-2
 Log-in Review [Signature]
 Remarks: 1LE 25 18590354
carry for
 Dry Weight Basis Required
 TRRP Report Required
8-18-14 (12)



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)

Jerry Settles
 Del Oro Dairy, LLC.
 1025 East O'Hara
 P.O. Box 1846
 Anthony, NM, 88021

Report Date: April 1, 2014

Work Order: 14031441



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
358041	692-05	water	2014-03-14	12:12	2014-03-14
358042	692-07	water	2014-03-14	10:18	2014-03-14
358043	692-08	water	2014-03-14	11:16	2014-03-14
358044	692-09	water	2014-03-14	09:21	2014-03-14

Report Corrections (Work Order 14031441)

- 4/01/14: Reran and reported TKN on sample 358041.

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

This report consists of a total of 20 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Del Oro Dairy were received by TraceAnalysis, Inc. on 2014-03-14 and assigned to work order 14031441. Samples for work order 14031441 were received intact at a temperature of 1.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	93206	2014-03-14 at 18:53	110230	2014-03-14 at 18:53
NO3 (IC)	E 300.0	93206	2014-03-14 at 18:53	110230	2014-03-14 at 18:53
TDS	SM 2540C	93217	2014-03-17 at 14:00	110246	2014-03-17 at 14:00
TKN	SM 4500-NH3 B,C	93514	2014-03-27 at 10:10	110596	2014-03-27 at 15:35
TKN	SM 4500-NH3 B,C	93627	2014-04-01 at 10:20	110737	2014-04-01 at 13:40

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

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 14031441 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: 358041 - 692-05

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	452	452	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 358041 - 692-05

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N	J	1	1.67	<2.50	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358041 - 692-05

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110246 Date Analyzed: 2014-03-17 Analyzed By: MC
 Prep Batch: 93217 Sample Preparation: 2014-03-17 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	Qs	1	1440	1440	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358041 - 692-05

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110737 Date Analyzed: 2014-04-01 Analyzed By: CF
 Prep Batch: 93627 Sample Preparation: 2014-04-01 Prepared By: CF

Report Date: April 1, 2014

Work Order: 14031441
Del Oro Dairy

Page Number: 6 of 20
1025 East OHara, Anthony, NM

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 358042 - 692-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	544	544	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 358042 - 692-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	3.26	3.26	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358042 - 692-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110246 Date Analyzed: 2014-03-17 Analyzed By: MC
 Prep Batch: 93217 Sample Preparation: 2014-03-17 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	Qs	1	1580	1580	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358042 - 692-07

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110596 Date Analyzed: 2014-03-27 Analyzed By: CF
 Prep Batch: 93514 Sample Preparation: 2014-03-27 Prepared By: CF

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: 358043 - 692-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	435	435	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 358043 - 692-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
 Prep Batch: 93206 Sample Preparation: 2014-03-14 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	4.27	4.27	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358043 - 692-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110246 Date Analyzed: 2014-03-17 Analyzed By: MC
 Prep Batch: 93217 Sample Preparation: 2014-03-17 Prepared By: MC

continued . . .

sample 358043 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids	Qs	1	1430	1430	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358043 - 692-08

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110596

Prep Batch: 93514

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-03-27

Sample Preparation: 2014-03-27

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 358044 - 692-09

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 110230

Prep Batch: 93206

Analytical Method: E 300.0

Date Analyzed: 2014-03-14

Sample Preparation: 2014-03-14

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	453	453	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 358044 - 692-09

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 110230

Prep Batch: 93206

Analytical Method: E 300.0

Date Analyzed: 2014-03-14

Sample Preparation: 2014-03-14

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	6.08	6.08	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 358044 - 692-09

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110246 Date Analyzed: 2014-03-17 Analyzed By: MC
 Prep Batch: 93217 Sample Preparation: 2014-03-17 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids	Qs	1	1460	1460	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 358044 - 692-09

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110596 Date Analyzed: 2014-03-27 Analyzed By: CF
 Prep Batch: 93514 Sample Preparation: 2014-03-27 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	v	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.678

Method Blank (1)

QC Batch: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110246
Prep Batch: 93217Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed 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: 110596
Prep Batch: 93514Date Analyzed: 2014-03-27
QC Preparation: 2014-03-27Analyzed By: CF
Prepared By: CF

Report Date: April 1, 2014

Work Order: 14031441
Del Oro Dairy

Page Number: 11 of 20
1025 East OHara, Anthony, NM

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Method Blank (1)

QC Batch: 110737
Prep Batch: 93627

Date Analyzed: 2014-04-01
QC Preparation: 2014-04-01

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 357828

QC Batch: 110246
Prep Batch: 93217

Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2820	2820	mg/L	1	0	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.3	mg/L	1	25.0	<0.678	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	24.2	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: 110230
Prep Batch: 93206Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.11	mg/L	1	5.00	<0.0374	102	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	5.07	mg/L	1	5.00	<0.0374	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: 110246
Prep Batch: 93217Date Analyzed: 2014-03-17
QC Preparation: 2014-03-17Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1020	mg/L	1	0.00	<2.50	10	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Dissolved Solids	qs	1	1000	mg/L	1	0.00	<2.50	0	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: 110596
Prep Batch: 93514

Date Analyzed: 2014-03-27
QC Preparation: 2014-03-27

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.66	87	85 - 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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	46.9	mg/L	1	50.0	<1.66	94	85 - 115	8	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110737
Prep Batch: 93627

Date Analyzed: 2014-04-01
QC Preparation: 2014-04-01

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec. Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	85 - 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.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.66	87	85 - 115	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: 358042

QC Batch: 110230
Prep Batch: 93206

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2020	mg/L	55.6	1390	544	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 Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2000	mg/L	55.6	1390	544	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: 358042

QC Batch: 110230 Date Analyzed: 2014-03-14 Analyzed By: JR
Prep Batch: 93206 QC Preparation: 2014-03-14 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	293	mg/L	55.6	278	3.26	104	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	289	mg/L	55.6	278	3.26	103	80 - 120	1	20

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

Matrix Spike (MS-1) Spiked Sample: 358117

QC Batch: 110596 Date Analyzed: 2014-03-27 Analyzed By: CF
Prep Batch: 93514 QC Preparation: 2014-03-27 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	85.4	mg/L	2	100	<3.32	85	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
Total Kjeldahl Nitrogen - N		2	91.0	mg/L	2	100	<3.32	91	80 - 120	6	20

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

Matrix Spike (MS-1) Spiked Sample: 358407

QC Batch: 110737
Prep Batch: 93627

Date Analyzed: 2014-04-01
QC Preparation: 2014-04-01

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	42.7	mg/L	1	50.0	<1.66	85	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
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	80 - 120	3	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-14

Standard (CCV-1)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.18	104	90 - 110	2014-03-14

Standard (CCV-2)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-14

Standard (CCV-2)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.18	104	90 - 110	2014-03-14

Standard (CCV-3)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-14

Standard (CCV-3)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.19	104	90 - 110	2014-03-14

Standard (CCV-4)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.8	99	90 - 110	2014-03-14

Standard (CCV-4)

QC Batch: 110230

Date Analyzed: 2014-03-14

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.18	104	90 - 110	2014-03-14

Standard (ICV-1)

QC Batch: 110596

Date Analyzed: 2014-03-27

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.48	90	85 - 115	2014-03-27

Standard (CCV-1)

QC Batch: 110596

Date Analyzed: 2014-03-27

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.90	98	85 - 115	2014-03-27

Standard (ICV-1)

QC Batch: 110737

Date Analyzed: 2014-04-01

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-04-01

Standard (CCV-1)

QC Batch: 110737

Date Analyzed: 2014-04-01

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.90	98	85 - 115	2014-04-01

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
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	T104704219-14-10	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.

14031441
 6701 Aberdeen, Ste. 9
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

TraceAnalysis, Inc.

Company Name: 155 McCutcheon, Ste. H El Paso, TX 79932
 D&H Petroleum & Environmental Services
 Address: (Street, City, Zip) Paso, TX 79932
 1221 Tower Trail Ln, El Paso TX 79907
 Tel (806) 794-1296
 Contact Person: Jerry Settles
 Victor Ayala
 Phone #: 915-859-8150
 Cell #: 915-859-8150
 Fax #: 915-585-4944
 E-mail: vajala@dhpump.com

Invoice to (if different from above):
 Del Oro Dairy, PO Box 1846, Anthony, TX 88021
 Project #: Jerry Settles 575-882-4331
 Project Name: Del Oro Dairy
 Project Location (including state):
 Del Oro Dairy, 1025 East O'Hara, Anthony, NM
 Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					Sampling			
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE	TIME	
	692-01	1		X				X		X					
	692-01	1		X				X		X					
	692-02	1		X				X		X					
	692-02	1		X				X		X					
	692-04	1		X				X		X					
	692-04	1		X				X		X					
	692-05	1		X				X		X			3-14-14	12:12	
	692-05	1		X				X		X			3-14-14	12:12	
	692-06	1		X				X		X					
	692-06	1		X				X		X					
	692-07	1		X				X		X			3-14-14	10:18	
	692-07	1		X				X		X			3-14-14	16:18	
	692-08	1		X				X		X			3-14-14	11:16	
	692-08	1		X				X		X			3-14-14	11:16	
	692-09	1		X				X		X			3-14-14	9:21	
	692-09	1		X				X		X			3-14-14	9:21	

Relinquished By: *[Signature]* Date: 3-14-14 12:13
 Received By: *[Signature]* Date: 3-14-14 12:43
 Relinquished Bx: *[Signature]* Date: 3-14-14 16:30
 Received at Laboratory By: *[Signature]* Date: 3/15/14 8:55
 Intact Y/N: Y
 Headspace Y/N: Y
 Temp *22* Log-in Review *13*
 3-14-14

Page 1 of 1
 CHAIN-OF-CUSTODY AND ANALYSIS REQUEST
 LAB Order ID # 14031441

ANALYSIS REQUEST	Hold
MTBE 8021B/602	
BTEX 8021B/602	
TPH 418.1 / TX1005	
TX 1005 Extended (C35)	
PAH 8270C	
PAH 8270 (Low Level Analysis)	
Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	
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 NOR G C	X
Phosphorus SM 4500	X
Turn Around Time	

Remarks: ON ICE
Carry In -
TKN analysis in dubbook.
 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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 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)

Linda Armstrong
 Dona Ana Dairies

Report Date: April 2, 2014

P.O. Box 10
 Mesquite, NM, 88048

Work Order: 14031120



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
357544	DAD-07	water	2014-03-11	09:53	2014-03-11
357545	DAD-08	water	2014-03-11	10:37	2014-03-11
357546	DAD-17	water	2014-03-11	14:12	2014-03-11
357547	DAD-18	water	2014-03-11	12:12	2014-03-11

Report Corrections (Work Order 14031120)

- 4/2/14: Reran and reported Chloride for sample 357547.

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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QC Batch 110268 - CCV (3)	20
QC Batch 110283 - ICV (1)	21
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QC Batch 110596 - ICV (1)	21
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Case Narrative

Samples for project Dona Ana Dairies Consortium were received by TraceAnalysis, Inc. on 2014-03-11 and assigned to work order 14031120. Samples for work order 14031120 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	93165	2014-03-12 at 16:13	110186	2014-03-12 at 16:13
Chloride (IC)	E 300.0	93238	2014-03-18 at 12:04	110268	2014-03-18 at 12:04
Chloride (IC)	E 300.0	93668	2014-04-01 at 15:05	110780	2014-04-01 at 15:05
NO3 (IC)	E 300.0	93165	2014-03-12 at 16:13	110186	2014-03-12 at 16:13
TDS	SM 2540C	93141	2014-03-13 at 13:45	110161	2014-03-13 at 13:45
TKN	SM 4500-NH3 B,C	93248	2014-03-18 at 10:20	110283	2014-03-18 at 15:00
TKN	SM 4500-NH3 B,C	93514	2014-03-27 at 10:10	110596	2014-03-27 at 15:35

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 14031120 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: 357544 - DAD-07

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110186 Date Analyzed: 2014-03-12 Analyzed By: JR
 Prep Batch: 93165 Sample Preparation: 2014-03-12 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	512	512	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 357544 - DAD-07

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110186 Date Analyzed: 2014-03-12 Analyzed By: JR
 Prep Batch: 93165 Sample Preparation: 2014-03-12 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	4.84	4.84	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357544 - DAD-07

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110161 Date Analyzed: 2014-03-13 Analyzed By: MC
 Prep Batch: 93141 Sample Preparation: 2014-03-13 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	1980	1980	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357544 - DAD-07

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110283 Date Analyzed: 2014-03-18 Analyzed By: CF
 Prep Batch: 93248 Sample Preparation: 2014-03-18 Prepared By: CF

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	2.10	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 357545 - DAD-08

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110268 Date Analyzed: 2014-03-18 Analyzed By: JR
 Prep Batch: 93238 Sample Preparation: 2014-03-18 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Chloride		1	2450	2450	<67.8	mg/L	100	67.8	2.5	0.678

Sample: 357545 - DAD-08

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110186 Date Analyzed: 2014-03-12 Analyzed By: JR
 Prep Batch: 93165 Sample Preparation: 2014-03-12 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based Result	Based Result	Blank Result				(Unadjusted)	(Unadjusted)
Nitrate-N		1	71.7	71.7	<0.374	mg/L	10	0.374	0.5	0.0374

Sample: 357545 - DAD-08

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110161 Date Analyzed: 2014-03-13 Analyzed By: MC
 Prep Batch: 93141 Sample Preparation: 2014-03-13 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	6400	6400	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357545 - DAD-08

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110283 Date Analyzed: 2014-03-18 Analyzed By: CF
 Prep Batch: 93248 Sample Preparation: 2014-03-18 Prepared By: CF

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: 357546 - DAD-17

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110186 Date Analyzed: 2014-03-12 Analyzed By: JR
 Prep Batch: 93165 Sample Preparation: 2014-03-12 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	440	440	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 357546 - DAD-17

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 110186 Date Analyzed: 2014-03-12 Analyzed By: JR
 Prep Batch: 93165 Sample Preparation: 2014-03-12 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	3.27	3.27	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357546 - DAD-17

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110161 Date Analyzed: 2014-03-13 Analyzed By: MC
 Prep Batch: 93141 Sample Preparation: 2014-03-13 Prepared By: MC

continued . . .

sample 357546 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	1820	1820	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357546 - DAD-17

Laboratory: Lubbock

Analysis: TKN

QC Batch: 110283

Prep Batch: 93248

Analytical Method: SM 4500-NH3 B,C

Date Analyzed: 2014-03-18

Sample Preparation: 2014-03-18

Prep Method: N/A

Analyzed By: CF

Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<3.32	<20.0	<3.32	mg/L	2	3.32	10	1.66

Sample: 357547 - DAD-18

Laboratory: El Paso

Analysis: Chloride (IC)

QC Batch: 110780

Prep Batch: 93668

Analytical Method: E 300.0

Date Analyzed: 2014-04-01

Sample Preparation: 2014-04-01

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	739	739	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 357547 - DAD-18

Laboratory: El Paso

Analysis: NO3 (IC)

QC Batch: 110186

Prep Batch: 93165

Analytical Method: E 300.0

Date Analyzed: 2014-03-12

Sample Preparation: 2014-03-12

Prep Method: N/A

Analyzed By: JR

Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	12.8	12.8	<0.187	mg/L	5	0.187	0.5	0.0374

Sample: 357547 - DAD-18

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 110161 Date Analyzed: 2014-03-13 Analyzed By: MC
 Prep Batch: 93141 Sample Preparation: 2014-03-13 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2880	2880	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 357547 - DAD-18

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110596 Date Analyzed: 2014-03-27 Analyzed By: CF
 Prep Batch: 93514 Sample Preparation: 2014-03-27 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 110161
Prep Batch: 93141Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13Analyzed 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: 110186
Prep Batch: 93165Date Analyzed: 2014-03-12
QC Preparation: 2014-03-12Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.27	mg/L	0.678

Method Blank (1)

QC Batch: 110186
Prep Batch: 93165Date Analyzed: 2014-03-12
QC Preparation: 2014-03-12Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	<0.0374	mg/L	0.0374

Method Blank (1)

QC Batch: 110268
Prep Batch: 93238Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.27	mg/L	0.678

Method Blank (1)

QC Batch: 110283 Date Analyzed: 2014-03-18 Analyzed By: CF
Prep Batch: 93248 QC Preparation: 2014-03-18 Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Method Blank (1)

QC Batch: 110596 Date Analyzed: 2014-03-27 Analyzed By: CF
Prep Batch: 93514 QC Preparation: 2014-03-27 Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Method Blank (1)

QC Batch: 110780 Date Analyzed: 2014-04-01 Analyzed By: JR
Prep Batch: 93668 QC Preparation: 2014-04-01 Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	<0.678	mg/L	0.678

Duplicate (1) Duplicated Sample: 357544

QC Batch: 110161 Date Analyzed: 2014-03-13 Analyzed By: MC
Prep Batch: 93141 QC Preparation: 2014-03-13 Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	1960	1980	mg/L	1	1	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 110161
Prep Batch: 93141Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	1010	mg/L	1	0.00	<2.50		90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	1020	mg/L	1	0.00	<2.50	0	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: 110186
Prep Batch: 93165Date Analyzed: 2014-03-12
QC Preparation: 2014-03-12Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	23.8	mg/L	1	25.0	<0.678	95	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	23.8	mg/L	1	25.0	<0.678	95	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110186
Prep Batch: 93165Date Analyzed: 2014-03-12
QC Preparation: 2014-03-12Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	4.75	mg/L	1	5.00	<0.0374	95	90 - 110

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

Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
Nitrate-N		1	4.75	mg/L	1	5.00	<0.0374	95	90 - 110	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110268
Prep Batch: 93238

Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
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	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
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: 110283
Prep Batch: 93248

Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.66	87	85 - 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	43.4	mg/L	1	50.0	<1.66	87	85 - 115	0	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110596
Prep Batch: 93514

Date Analyzed: 2014-03-27
QC Preparation: 2014-03-27

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.66	87	85 - 115

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Total Kjeldahl Nitrogen - N		2	46.9	mg/L	1	50.0	<1.66	94	85 - 115	8	20

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

Laboratory Control Spike (LCS-1)

QC Batch: 110780
 Prep Batch: 93668

Date Analyzed: 2014-04-01
 QC Preparation: 2014-04-01

Analyzed By: JR
 Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	24.7	mg/L	1	25.0	<0.678	99	90 - 110

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

Param	F	C	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Chloride		1	24.6	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.

Matrix Spike (MS-1) Spiked Sample: 357546

QC Batch: 110186
 Prep Batch: 93165

Date Analyzed: 2014-03-12
 QC Preparation: 2014-03-12

Analyzed By: JR
 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	1850	mg/L	55.6	1390	440	101	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit	
Chloride		1	1810	mg/L	55.6	1390	440	98	80 - 120	2	20

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

Matrix Spike (MS-1) Spiked Sample: 357546QC Batch: 110186
Prep Batch: 93165Date Analyzed: 2014-03-12
QC Preparation: 2014-03-12Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	279	mg/L	55.6	278	3.27	99	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N		1	271	mg/L	55.6	278	3.27	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: 356489QC Batch: 110268
Prep Batch: 93238Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18Analyzed By: JR
Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	6370	mg/L	111	2780	3100	118	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	6370	mg/L	111	2780	3100	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: 357546QC Batch: 110283
Prep Batch: 93248Date Analyzed: 2014-03-18
QC Preparation: 2014-03-18Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	88.2	mg/L	2	100	<3.32	87	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
Total Kjeldahl Nitrogen - N		2	91.0	mg/L	2	100	<3.32	90	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: 358117

QC Batch: 110596 Date Analyzed: 2014-03-27 Analyzed By: CF
 Prep Batch: 93514 QC Preparation: 2014-03-27 Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	85.4	mg/L	2	100	<3.32	85	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
Total Kjeldahl Nitrogen - N		2	91.0	mg/L	2	100	<3.32	91	80 - 120	6	20

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

Matrix Spike (MS-1) Spiked Sample: 357547

QC Batch: 110780 Date Analyzed: 2014-04-01 Analyzed By: JR
 Prep Batch: 93668 QC Preparation: 2014-04-01 Prepared By: JR

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	2260	mg/L	55.6	1390	739	109	80 - 120

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

Param	F	C	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride		1	2230	mg/L	55.6	1390	739	107	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: 110186

Date Analyzed: 2014-03-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110186

Date Analyzed: 2014-03-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.14	103	90 - 110	2014-03-12

Standard (CCV-2)

QC Batch: 110186

Date Analyzed: 2014-03-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-12

Standard (CCV-2)

QC Batch: 110186

Date Analyzed: 2014-03-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.15	103	90 - 110	2014-03-12

Standard (CCV-3)

QC Batch: 110186

Date Analyzed: 2014-03-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-12

Standard (CCV-3)

QC Batch: 110186

Date Analyzed: 2014-03-12

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	5.15	103	90 - 110	2014-03-12

Standard (CCV-1)

QC Batch: 110268

Date Analyzed: 2014-03-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-18

Standard (CCV-2)

QC Batch: 110268

Date Analyzed: 2014-03-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.7	99	90 - 110	2014-03-18

Standard (CCV-3)

QC Batch: 110268

Date Analyzed: 2014-03-18

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.9	100	90 - 110	2014-03-18

Standard (ICV-1)

QC Batch: 110283

Date Analyzed: 2014-03-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-18

Standard (CCV-1)

QC Batch: 110283

Date Analyzed: 2014-03-18

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-18

Standard (ICV-1)

QC Batch: 110596

Date Analyzed: 2014-03-27

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.48	90	85 - 115	2014-03-27

Standard (CCV-1)

QC Batch: 110596

Date Analyzed: 2014-03-27

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.90	98	85 - 115	2014-03-27

Standard (CCV-1)

QC Batch: 110780

Date Analyzed: 2014-04-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	23.7	95	90 - 110	2014-04-01

Standard (CCV-2)

QC Batch: 110780

Date Analyzed: 2014-04-01

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	23.7	95	90 - 110	2014-04-01

Limits of Detection (LOD)

Test	Method	Matrix	Instrument	Analyte	Spike Amount	Pass
Chloride (IC)	E 300.0	water	Dionex IC	Chloride	0.750	Pass
NO3 (IC)	E 300.0	water	Dionex IC	Nitrate-N	0.125	Pass
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	T104704219-14-10	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.

14031120

LAB Order ID # 14031120

TraceAnalysis, Inc.
 Lubbock, TX 79424
 Tel (806) 794-1296
 Fax (806) 794-1298

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

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 #:
 Linda Armstrong 575-233-3620

Project Name:
 Dona Ana Dairies Consortium

Project Location (including state):
 Various Dairies, Dona Ana County, NM

Sampler Signature:

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX				PRESERVATIVE METHOD				Sampling		TIME		
				WATER	SOIL	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE		DATE	TIME
DAD-01		1		X				X			X					
DAD-01		1		X				X			X					
DAD-02		1		X				X			X					
DAD-02		1		X				X			X					
DAD-03		1		X				X			X					
DAD-03		1		X				X			X					
DAD-04		1		X				X			X					
DAD-04		1		X				X			X					
DAD-05		1		X				X			X					
DAD-05		1		X				X			X					
DAD-06		1		X				X			X					
DAD-06		1		X				X			X					
DAD-07		1	250 mL	X				X			X			3/11/14	9:53	
DAD-07		1	250 mL	X				X			X			3/11/14	9:53	
DAD-08		1	250 mL	X				X			X			3/11/14	10:37	
DAD-08		1	250 mL	X				X			X			3/11/14	10:37	

Relinquished By: _____ Date: 3/11/14 Time: 14:45
 Received By: _____ Date: 3/11/14 Time: 14:42

Relinquished By: _____ Date: 3/11/14 Time: 16:30
 Received By: Brenda TA Ward Kubser Date: 3/12/14 Time: 9:15

Lab Use Only
 Intact Y / N
 Headspace Y / N
 Temp 2/2 / 2 cc
 Log-in Review PH

Remarks:
 Dry Weight Basis Required 25 48590349
 TRRP Report Required 58 / 5.6

Carryover

TraceAnalysis, Inc.

Lubbock, TX 79424
Tel (806) 794-1296
Fax (806) 794-1298

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

Page 2 of 2
CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

Company Name: _____

Phone #: 915-859-8150

Cell #: _____

D&H Petroleum & Environmental Services

Address: (Street, City, Zip)

Fax #: _____
E-mail: vajala@dhpump.com

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

Linda Armstrong 575-233-3620

Project #:

Project Name:

Dona Ana Dairies Consortium

Project Location (including state): _____

Various Dairies, Dona Ana County, NM

Sampler Signature: *[Signature]*

LAB # (LAB USE ONLY)	Field Code	# Containers	Volume/Amount	MATRIX			PRESERVATIVE METHOD					SAMPLING		Turn Around Time	Hold	
				WATER	AIR	SLUDGE	HCl	HNO ₃	H ₂ SO ₄	NaOH	ICE	NONE	DATE			TIME
3575461	DAD-17	1	250 mL	X				X	X	X	X	X	3/16/14	14:12		
↓	DAD-17	1	250 mL	X				X	X	X	X	X	3/16/14	14:12		
47-1	DAD-18	1	250 mL	X				X	X	X	X	X	3/11/14	12:12		
↓	DAD-18	1	250 mL	X				X	X	X	X	X	3/11/14	12:12		
	DAD-19	1		X				X	X	X	X	X				
	DAD-19	1		X				X	X	X	X	X				
	DAD-20	1		X				X	X	X	X	X				
	DAD-20	1		X				X	X	X	X	X				
	DAD-21	1		X				X	X	X	X	X				
	DAD-21	1		X				X	X	X	X	X				
	DAD-22	1		X				X	X	X	X	X				
	DAD-22	1		X				X	X	X	X	X				

ANALYSIS REQUEST

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

Relinquished By: *[Signature]* Date: 3/11/14 Time: 14:49

Received By: *[Signature]* Date: 3/11/14 Time: 14:49

Relinquished By: *[Signature]* Date: 3/11/14 Time: 14:49

Received By: *[Signature]* Date: 3/11/14 Time: 14:49

Lab Use Only
Intact Y N

Headspace Y N

Temp 2 Ice Bag

Log-in Review *[Signature]*

Remarks: _____

Dry Weight Basis Required

TRRP Report Required



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

Certifications

WBE HUB NCTRCA DBE NELAP DoD LELAP Kansas Oklahoma ISO 17025

Analytical and Quality Control Report

Linda Armstrong
 Organ Dairy LLC

Report Date: March 17, 2014

P.O. Box 130
 Mesilla Park, NM, 87047

Work Order: 14022042



Project Location: 12560 Stern Dr., Mesquite, NM
 Project Name: Organ Dairy
 Project Number: N/A

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
355251	126-4	water	2014-02-20	12:25	2014-02-20
355252	126-5	water	2014-02-20	13:40	2014-02-20
355253	126-7	water	2014-02-20	11:03	2014-02-20
355254	126-9	water	2014-02-20	10:41	2014-02-20
355255	126-12	water	2014-02-20	14:34	2014-02-20
355256	126-13	water	2014-02-20	11:52	2014-02-20
355257	126-Lagoon	water	2014-02-20	11:15	2014-02-20

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

This report consists of a total of 25 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:

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

Michael Abel

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

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Case Narrative

Samples for project Organ Dairy were received by TraceAnalysis, Inc. on 2014-02-20 and assigned to work order 14022042. Samples for work order 14022042 were received intact at a temperature of 2.0 C.

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

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Chloride (IC)	E 300.0	92786	2014-02-20 at 03:12	109730	2014-02-20 at 03:12
NO3 (IC)	E 300.0	92786	2014-02-20 at 03:12	109730	2014-02-20 at 03:12
TDS	SM 2540C	92653	2014-02-24 at 10:50	109573	2014-02-24 at 10:50
TKN	SM 4500-NH3 B,C	93145	2014-03-13 at 15:25	110163	2014-03-13 at 18:50
TKN	SM 4500-NH3 B,C	93173	2014-03-14 at 10:45	110198	2014-03-14 at 16:00

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 14022042 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: 355251 - 126-4

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	564	564	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355251 - 126-4

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	17.1	17.1	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355251 - 126-4

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 109573 Date Analyzed: 2014-02-24 Analyzed By: MC
Prep Batch: 92653 Sample Preparation: 2014-02-24 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2410	2410	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355251 - 126-4

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 110163 Date Analyzed: 2014-03-13 Analyzed By: CF
Prep Batch: 93145 Sample Preparation: 2014-03-13 Prepared By: CF

Report Date: March 17, 2014
N/A

Work Order: 14022042
Organ Dairy

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Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355252 - 126-5

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Chloride		1	643	643	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355252 - 126-5

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	SQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
			Result	Result	Result					
Nitrate-N		1	27.1	27.1	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355252 - 126-5

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 109573 Date Analyzed: 2014-02-24 Analyzed By: MC
Prep Batch: 92653 Sample Preparation: 2014-02-24 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	3140	3140	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355252 - 126-5

Report Date: March 17, 2014
N/A

Work Order: 14022042
Organ Dairy

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12560 Stern Dr., Mesquite, NM

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 110163 Date Analyzed: 2014-03-13 Analyzed By: CF
Prep Batch: 93145 Sample Preparation: 2014-03-13 Prepared By: CF

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: 355253 - 126-7

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Chloride		1	615	615	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355253 - 126-7

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL	SQL	Method	Units	Dilution	SDL	MQL	MDL
			Based	Based	Blank				(Unadjusted)	(Unadjusted)
Nitrate-N		1	25.6	25.6	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355253 - 126-7

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 109573 Date Analyzed: 2014-02-24 Analyzed By: MC
Prep Batch: 92653 Sample Preparation: 2014-02-24 Prepared By: MC

continued . . .

sample 355253 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2490	2490	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355253 - 126-7

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110163 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93145 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355254 - 126-9

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
 Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	911	911	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355254 - 126-9

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
 Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Report Date: March 17, 2014
N/A

Work Order: 14022042
Organ Dairy

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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N	J	1	2.12	<2.50	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355254 - 126-9

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109573 Date Analyzed: 2014-02-24 Analyzed By: MC
 Prep Batch: 92653 Sample Preparation: 2014-02-24 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2720	2720	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355254 - 126-9

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110163 Date Analyzed: 2014-03-13 Analyzed By: CF
 Prep Batch: 93145 Sample Preparation: 2014-03-13 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	U	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355255 - 126-12

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
 Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	404	404	<6.78	mg/L	10	6.78	2.5	0.678

Sample: 355255 - 126-12

Report Date: March 17, 2014
N/A

Work Order: 14022042
Organ Dairy

Page Number: 11 of 25
12560 Stern Dr., Mesquite, NM

Laboratory: El Paso
Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	13.6	13.6	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355255 - 126-12

Laboratory: El Paso
Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
QC Batch: 109573 Date Analyzed: 2014-02-24 Analyzed By: MC
Prep Batch: 92653 Sample Preparation: 2014-02-24 Prepared By: MC

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2370	2370	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355255 - 126-12

Laboratory: Lubbock
Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
QC Batch: 110198 Date Analyzed: 2014-03-14 Analyzed By: CF
Prep Batch: 93173 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	J	2	2.10	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355256 - 126-13

Laboratory: El Paso
Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

continued ...

sample 355256 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	769	769	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355256 - 126-13

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
 Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	29.9	29.9	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355256 - 126-13

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109573 Date Analyzed: 2014-02-24 Analyzed By: MC
 Prep Batch: 92653 Sample Preparation: 2014-02-24 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	2780	2780	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355256 - 126-13

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110198 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93173 Sample Preparation: 2014-03-14 Prepared By: CF

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N	u	2	<1.66	<10.0	<1.66	mg/L	1	1.66	10	1.66

Sample: 355257 - 126-Lagoon

Laboratory: El Paso
 Analysis: Chloride (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
 Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		1	1220	1220	<33.9	mg/L	50	33.9	2.5	0.678

Sample: 355257 - 126-Lagoon

Laboratory: El Paso
 Analysis: NO3 (IC) Analytical Method: E 300.0 Prep Method: N/A
 QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR
 Prep Batch: 92786 Sample Preparation: 2014-02-20 Prepared By: JR

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		1	3.40	3.40	<0.213	mg/L	5	0.213	0.5	0.0426

Sample: 355257 - 126-Lagoon

Laboratory: El Paso
 Analysis: TDS Analytical Method: SM 2540C Prep Method: N/A
 QC Batch: 109573 Date Analyzed: 2014-02-24 Analyzed By: MC
 Prep Batch: 92653 Sample Preparation: 2014-02-24 Prepared By: MC

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Dissolved Solids		1	4990	4990	<2.50	mg/L	1	2.50	2.5	2.5

Sample: 355257 - 126-Lagoon

Laboratory: Lubbock
 Analysis: TKN Analytical Method: SM 4500-NH3 B,C Prep Method: N/A
 QC Batch: 110198 Date Analyzed: 2014-03-14 Analyzed By: CF
 Prep Batch: 93173 Sample Preparation: 2014-03-14 Prepared By: CF

continued ...

sample 355257 continued ...

Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
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Parameter	F	C	SDL Based Result	SQL Based Result	Method Blank Result	Units	Dilution	SDL	SQL (Unadjusted)	MDL (Unadjusted)
Total Kjeldahl Nitrogen - N		2	259	259	<16.6	mg/L	10	16.6	10	1.66

Method Blanks

Method Blank (1)

QC Batch: 109573
Prep Batch: 92653

Date Analyzed: 2014-02-24
QC Preparation: 2014-02-24

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: 109730
Prep Batch: 92786

Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Chloride		1	1.28	mg/L	0.678

Method Blank (1)

QC Batch: 109730
Prep Batch: 92786

Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20

Analyzed By: JR
Prepared By: JR

Parameter	F	C	Result	Units	Reporting Limits
Nitrate-N		1	0.152	mg/L	0.0426

Method Blank (1)

QC Batch: 110163
Prep Batch: 93145

Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13

Analyzed By: CF
Prepared By: CF

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Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Method Blank (1)

QC Batch: 110198
Prep Batch: 93173

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Parameter	F	C	Result	Units	Reporting Limits
Total Kjeldahl Nitrogen - N		2	<1.66	mg/L	1.66

Duplicate (1) Duplicated Sample: 355253

QC Batch: 109573
Prep Batch: 92653

Date Analyzed: 2014-02-24
QC Preparation: 2014-02-24

Analyzed By: MC
Prepared By: MC

Param	F	C	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Total Dissolved Solids		1	2440	2490	mg/L	1	2	10

Laboratory Control Spikes

Laboratory Control Spike (LCS-1)

QC Batch: 109573
Prep Batch: 92653

Date Analyzed: 2014-02-24
QC Preparation: 2014-02-24

Analyzed By: MC
Prepared By: MC

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Dissolved Solids		1	900	mg/L	1	1000	<2.50	90	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Total Dissolved Solids		1	961	mg/L	1	1000	<2.50	96	7	10

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

Laboratory Control Spike (LCS-1)

QC Batch: 109730
Prep Batch: 92786

Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride		1	25.7	mg/L	1	25.0	<0.678	103	90 - 110

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

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec. Limit	RPD	RPD Limit
Chloride		1	25.6	mg/L	1	25.0	<0.678	102	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: 109730
Prep Batch: 92786

Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20

Analyzed By: JR
Prepared By: JR

Param	F	C	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N		1	5.13	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.

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Param	F	C	LCSD		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
			Result	Units							
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: 110163
Prep Batch: 93145

Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	43.4	mg/L	1	50.0	<1.66	87	85 - 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	44.8	mg/L	1	50.0	<1.66	90	85 - 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: 110198
Prep Batch: 93173

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	LCS		Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units					
Total Kjeldahl Nitrogen - N		2	44.1	mg/L	1	50.0	<1.66	88	85 - 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	45.5	mg/L	1	50.0	<1.66	91	85 - 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: 355255

QC Batch: 109730
Prep Batch: 92786

Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20

Analyzed By: JR
Prepared By: JR

Report Date: March 17, 2014
N/A

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Param	F	C	MS			Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units						
Chloride		1	2040	mg/L	55.6	1390	404	118	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	2040	mg/L	55.6	1390	404	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: 355255

QC Batch: 109730
Prep Batch: 92786

Date Analyzed: 2014-02-20
QC Preparation: 2014-02-20

Analyzed By: JR
Prepared By: JR

Param	F	C	MS			Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units						
Nitrate-N		1	333	mg/L	55.6	278	13.6	115	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	333	mg/L	55.6	278	13.6	115	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: 355106

QC Batch: 110163
Prep Batch: 93145

Date Analyzed: 2014-03-13
QC Preparation: 2014-03-13

Analyzed By: CF
Prepared By: CF

Param	F	C	MS			Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
			Result	Units						
Total Kjeldahl Nitrogen - N		2	966	mg/L	10	500	546	84	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								
Total Kjeldahl Nitrogen - N		2	1020	mg/L	10	500	546	95	80 - 120	5	20	

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

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N/A

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Matrix Spike (MS-1) Spiked Sample: 355257

QC Batch: 110198
Prep Batch: 93173

Date Analyzed: 2014-03-14
QC Preparation: 2014-03-14

Analyzed By: CF
Prepared By: CF

Param	F	C	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Kjeldahl Nitrogen - N		2	693	mg/L	10	500	259	87	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
Total Kjeldahl Nitrogen - N		2	721	mg/L	10	500	259	92	80 - 120	4	20

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

Calibration Standards

Standard (CCV-1)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.2	97	90 - 110	2014-02-20

Standard (CCV-1)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.91	98	90 - 110	2014-02-20

Standard (CCV-2)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-20

Standard (CCV-2)

QC Batch: 109730

Date Analyzed: 2014-02-20

Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.95	99	90 - 110	2014-02-20

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N/A

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Standard (CCV-3)

QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.6	98	90 - 110	2014-02-20

Standard (CCV-3)

QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.98	100	90 - 110	2014-02-20

Standard (CCV-4)

QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		1	mg/L	25.0	24.5	98	90 - 110	2014-02-20

Standard (CCV-4)

QC Batch: 109730 Date Analyzed: 2014-02-20 Analyzed By: JR

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		1	mg/L	5.00	4.97	99	90 - 110	2014-02-20

Standard (ICV-1)

QC Batch: 110163 Date Analyzed: 2014-03-13 Analyzed By: CF

Report Date: March 17, 2014
N/A

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Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	5.32	106	85 - 115	2014-03-13

Standard (CCV-1)

QC Batch: 110163

Date Analyzed: 2014-03-13

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.62	92	85 - 115	2014-03-13

Standard (ICV-1)

QC Batch: 110198

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

Standard (CCV-1)

QC Batch: 110198

Date Analyzed: 2014-03-14

Analyzed By: CF

Param	F	C	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Kjeldahl Nitrogen - N		2	mg/L	5.00	4.34	87	85 - 115	2014-03-14

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

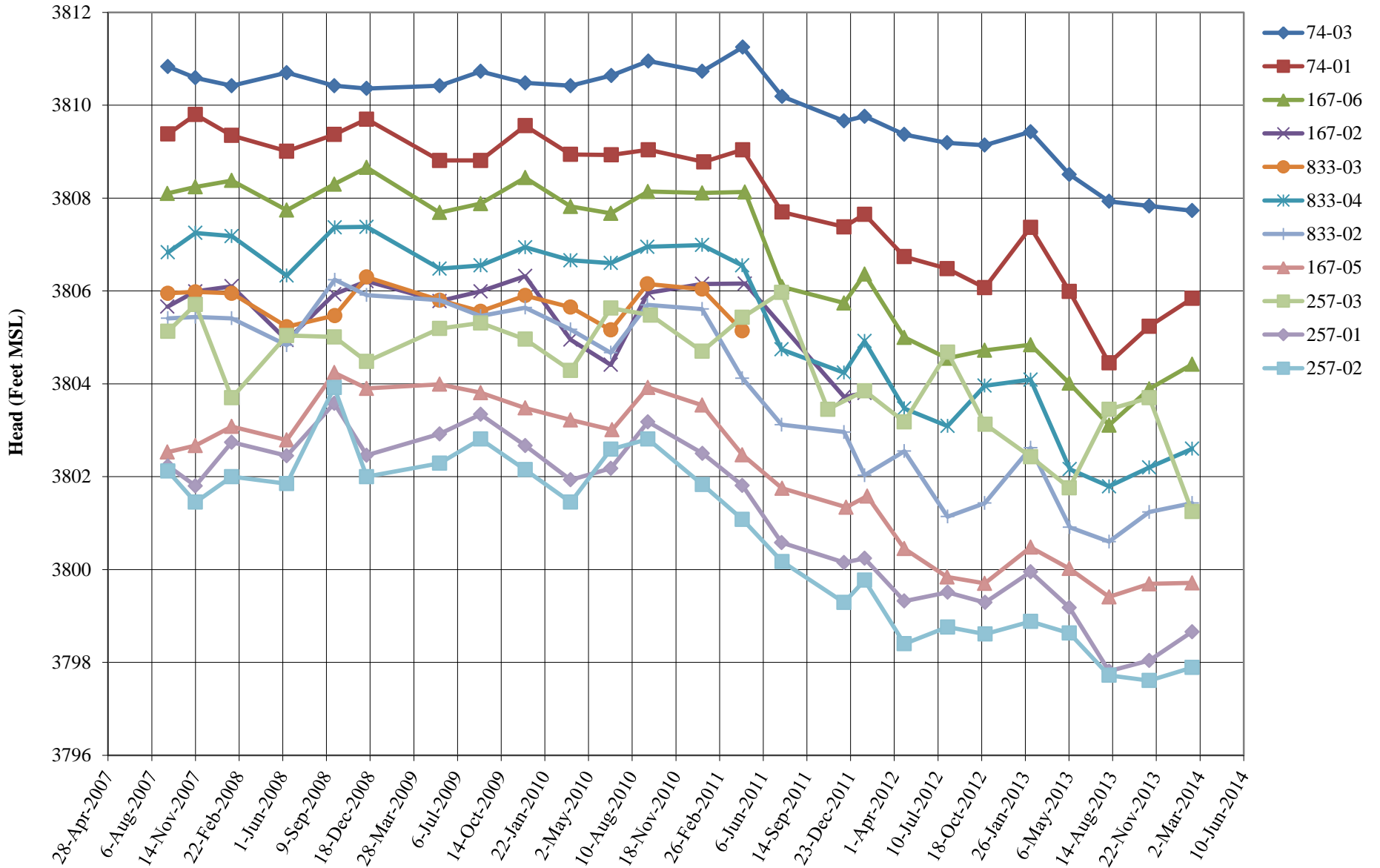
F	Description
B	Analyte detected in the corresponding method blank above the method detection limit
H	Analyzed out of hold time
J	Estimated concentration
Jb	The analyte is positively identified and the value is approximated between the SDL and MQL. Sample contains less than ten times the concentration 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

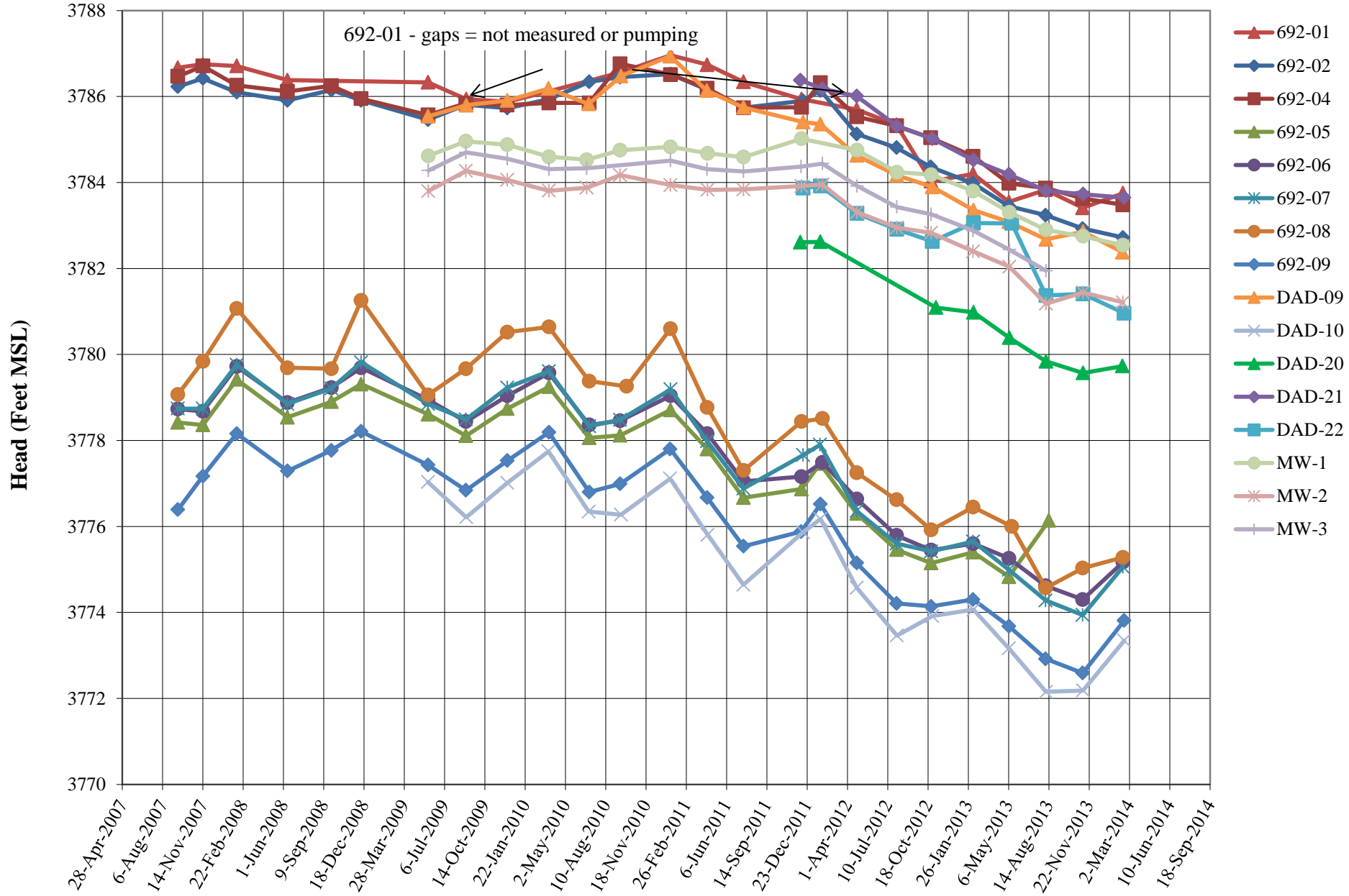
The scanned attachments will follow this page.
Please note, each attachment may consist of more than one page.

**APPENDIX C
HYDROGRAPHS**

HYDROGRAPHS FOR DP MONITORING WELLS CENTRAL PORTION

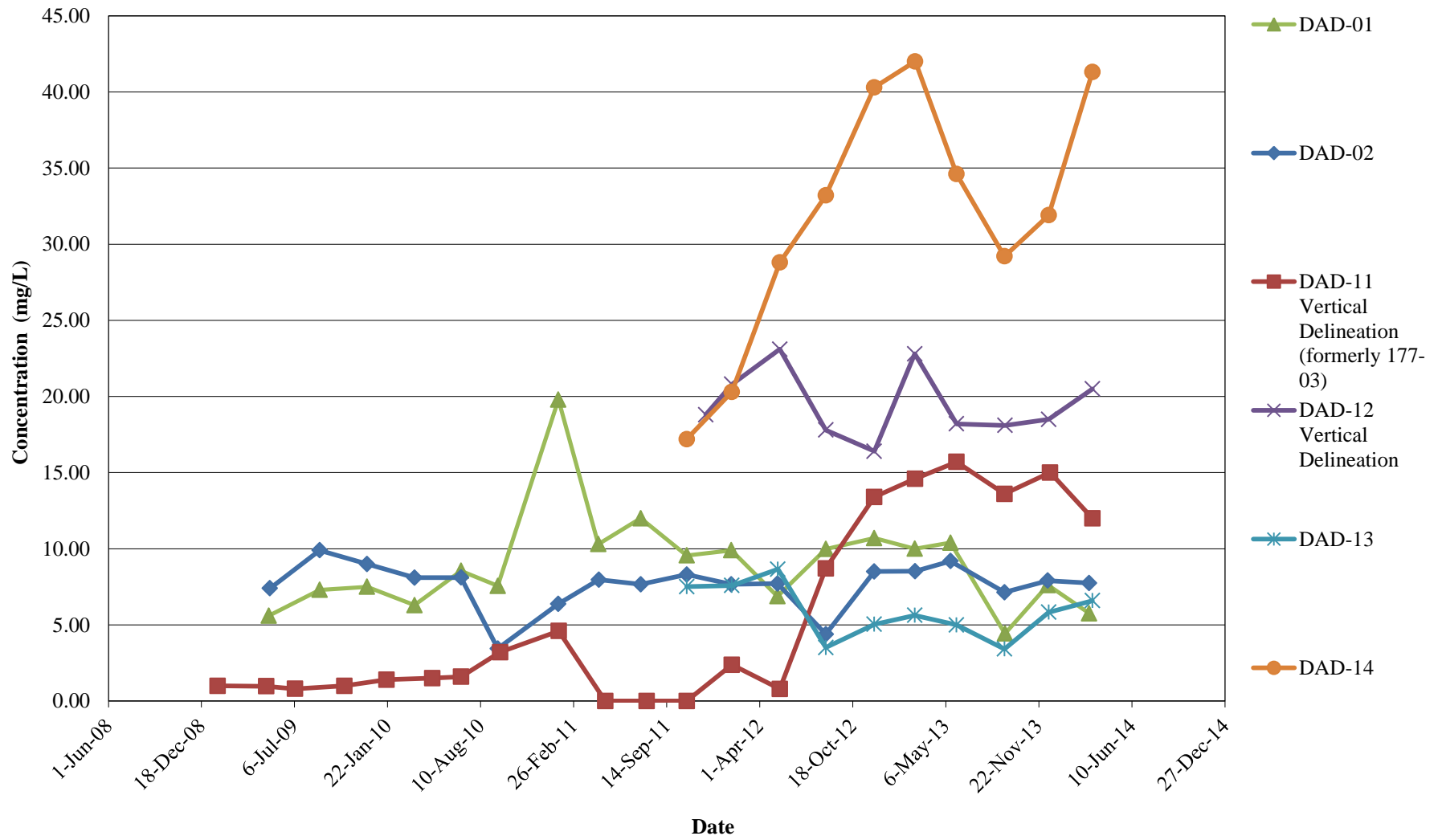


HYDROGRAPHS FOR DP MONITORING WELLS SOUTHERN PORTION

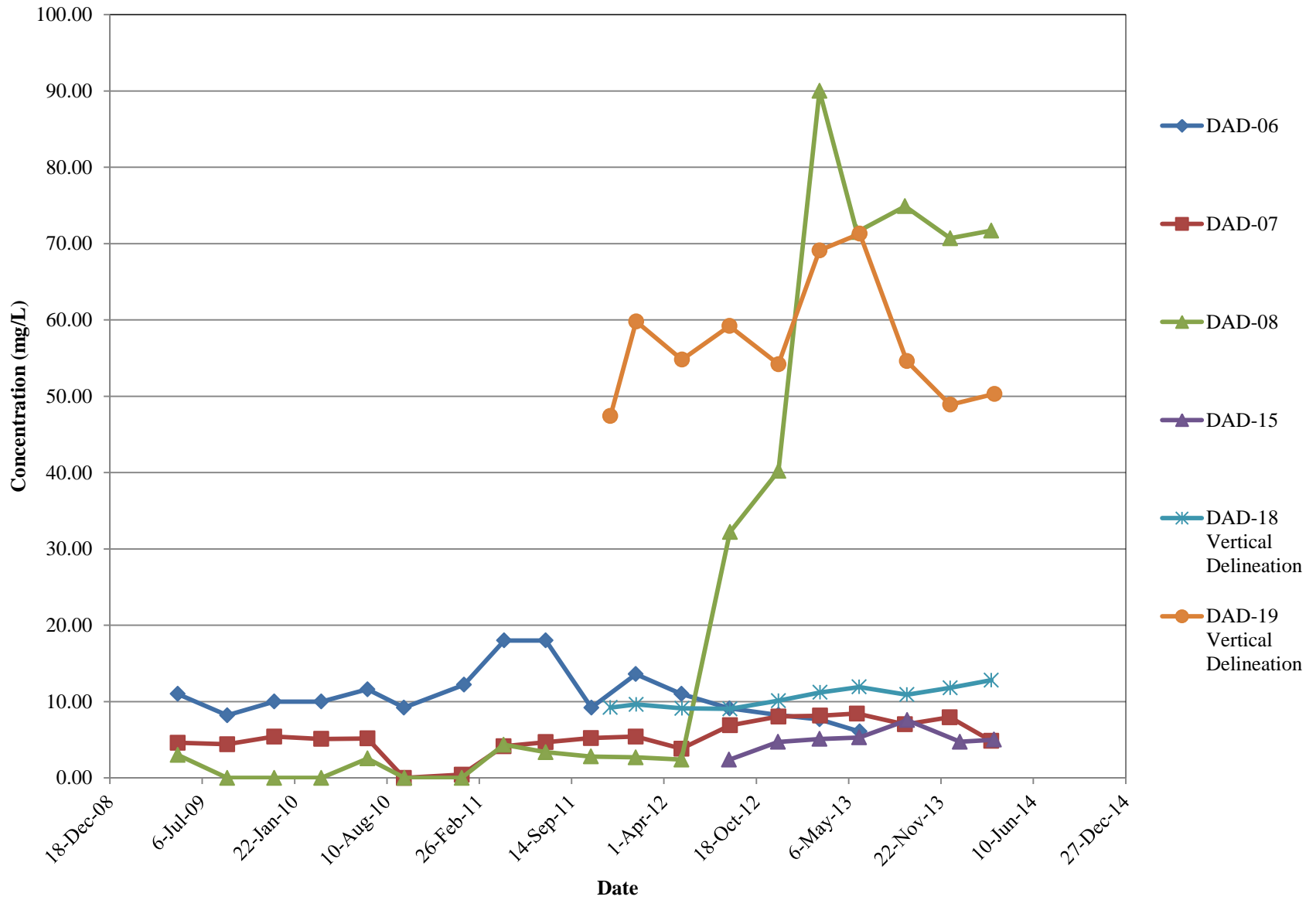


**APPENDIX D
CONCENTRATION TRENDS**

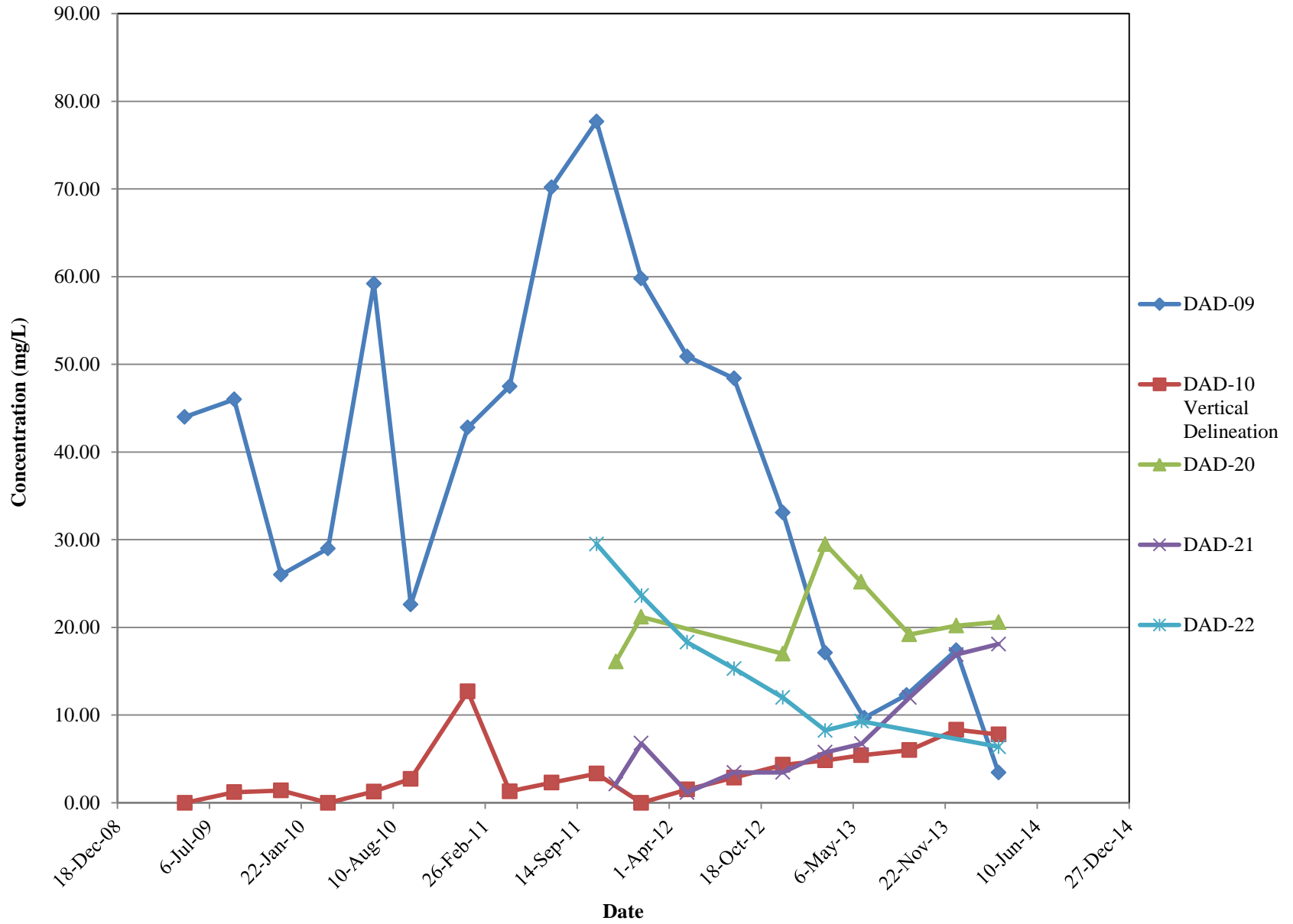
NITRATE CONCENTRATION TRENDS IN SELECT NORTHERN DAD MONITORING WELLS



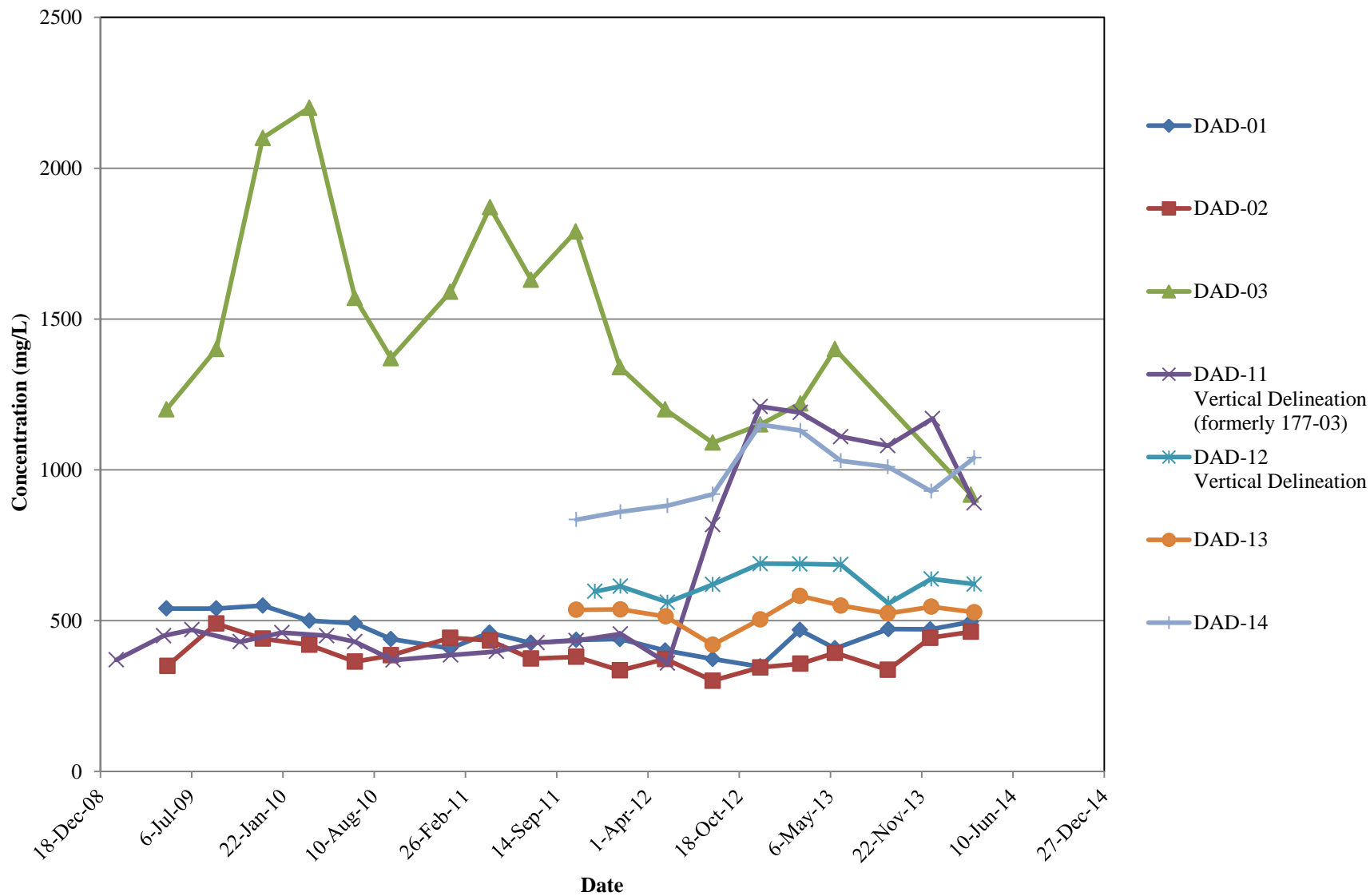
NITRATE CONCENTRATION TRENDS IN SELECT CENTRAL DAD WELLS



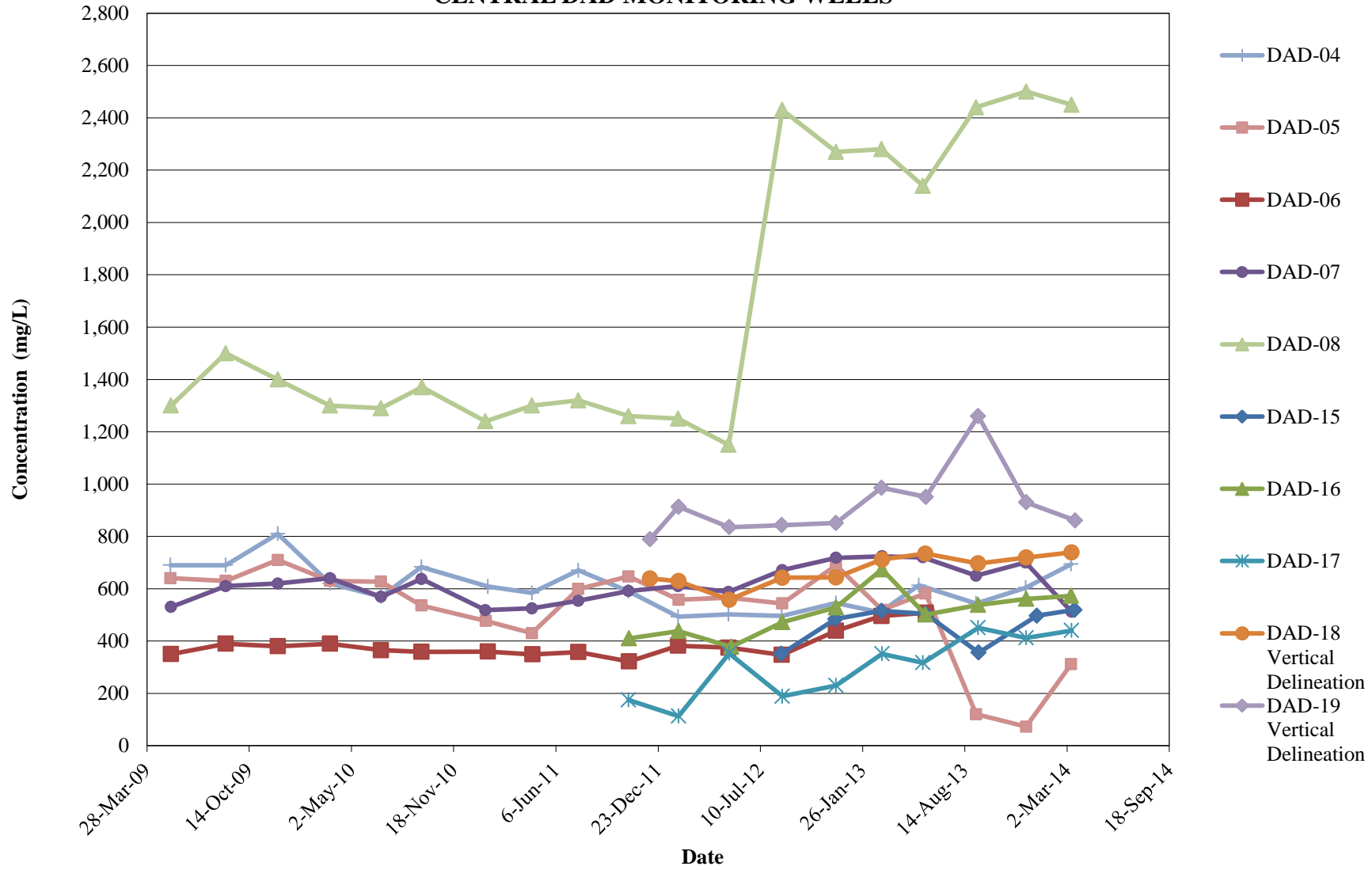
NITRATE CONCENTRATION TRENDS IN SELECT SOUTHERN DAD WELLS



CHLORIDE CONCENTRATION TRENDS NORTHERN DAD WELLS



CHLORIDE CONCENTRATION TRENDS CENTRAL DAD MONITORING WELLS



CHLORIDE CONCENTRATION TRENDS SOUTHERN DAD WELLS

