Delivery Confirmation No. 420 87505 9101 9690 0094 0865 9229 50



February 21, 2012

Mr. Glenn von Gonten New Mexico Energy, Minerals, & Natural Resources Oil Conservation Division, Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505

RE: 2011 Annual Groundwater Monitoring Report South Four Lakes #15 Site (AP-78) T12S-R34E-Section 2, Unit Letter G, Lea County, New Mexico

Dear Mr. von Gonten:

As agent for Pride Energy Company (Pride), Trident Environmental submits this 2011 Annual Groundwater Monitoring Report for the above-referenced site.

Groundwater Monitoring Results

Groundwater monitoring activities have been performed at the site on a quarterly basis since January 2008 as summarized in the table below. A site plan showing the most recent groundwater elevation and the chloride/TDS concentrations in monitoring well MW-1 is shown in Figure 1. Figure 2 is a graph depicting chloride and TDS concentrations and groundwater elevation versus time at monitoring well MW-1.

		j ==		C	<u>, (</u>	<u>, </u>		
Sample Date	Depth to Groundwater (feet BTOC)	Groundwater Elevation (feet AMSL)	Chloride (mg/L)	TDS (mg/L)	Benzene (mg/L)	Toluene (mg/L)	Ethyl- benzene (mg/L)	Xylene (mg/L)
01/23/08	29.10	4122.05	3,930					
03/13/08	26.25	4124.90	4,150	9,820	< 0.001	< 0.001	< 0.001	< 0.003
06/20/08	26.46	4124.69	6,180	12,500				
09/09/08	26.55	4124.60	4,850	9,700	< 0.001	< 0.001	< 0.001	< 0.003
12/08/08	26.63	4124.52	5,300	10,400	< 0.001	< 0.001	< 0.001	< 0.003
03/18/09	26.81	4124.34	5,400	11,000	< 0.001	< 0.001	< 0.001	< 0.003
06/17/09	27.01	4124.14	5,700	10,500	< 0.001	< 0.001	< 0.001	< 0.003
09/21/09	27.00	4124.15	5,700	10,000	< 0.001	< 0.001	< 0.001	< 0.003
12/11/09	26.63	4124.52	5,400	11,000	< 0.001	< 0.001	< 0.001	< 0.003
03/24/10	27.18	4123.97	5,300	10,200				
06/15/10	27.26	4123.89	5,300	11,500				
09/13/10	27.33	4123.82	5,400	9,750				
12/13/10	27.44	4123.71	4,340	10,600				
03/17/11	27.52	4123.63	5,280	10,100				
06/29/11	27.68	4123.47	4,540	8,430		·		
09/27/11	27.70	4123.45	5,090	8,400				
12/13/11	27.79	4123.36	5,570	8,780				
		VOCC Standards:	250	1000	0.10	0.75	0.75	0.62

Summary of Groundwater Monitoring Results (MW-1)

úra - mati





FIGURE 2

Chloride/TDS Concentrations and Groundwater Elevation Versus Time Graph (MW-1)

South Four Lakes #15 Site (AP-78) 2011 Annual Groundwater Monitoring Report

The constituents of concern in groundwater are chloride and TDS as they remain above the New Mexico's Water Quality Control Commission (WQCC) standards, of 250 mg/L and 1,000 mg/L, respectively. Benzene, toluene, ethylbenzene, and xylenes (BTEX) are not a constituent of concern as concentrations remained below laboratory detection limits and WQCC standards for two years; therefore, analysis for these constituents has been suspended. Quarterly ground water sampling and monitoring will continue.

We look forward to working with you on this project. If you have any questions please call me at 432-638-8740 or Matt Pride at 918-524-9200.

Sincerely,

Gilbert Van Deventer, REM, PG Trident Environmental

ì

cc: Matt Pride (Pride Energy Co., Tulsa, OK) Geoffry Leking (NMOCD -District 1, Hobbs, NM)

Attachments: Figures, well sampling data form, and laboratory analytical reports

ATTACHMENT A

WELL SAMPLING DATA FORM

and

LABORATORY ANALYTICAL REPORTS

WELL SAMPLING DATA FORM (MW-1)

10

SITE	CLIENT: NAME: CATION:	Pride Ene South Fo	ergy Con ur Lakes 4F-Sec 2	npany #15 (A 2 Unit L	P-78) etter G ⁄	~lea C	County					-	TRIDEN
SA	MPLER:	Gil Van D	Deventer										Environmental
	SA	PURGING N AMPLING N	METHOD: 1ETHOD:		Hand Ba Disposal	iled ble Bailer	⊡ Pui	mp, Type: Direct fro	<u>Proactive</u>	<u>SuperTw</u> ge Hose	ister (3-s	tage Su Other:	bmersible Pump)
JISPOSAL	METHOD	OF PURGE	WATER:		On-site [Drum [Drur	ns	⊡ ₩D D	isposal F	acility		
Quarter	Date	Time	Depth to Water (ft btoc)	Total Depth (ft)	Water Column Height (ft)	Well Factor 2"=.16 4"=.65	Calc. Well Vol. (gal)	Volume Purged (gal)	No. of Well Volumes Purged	Temp. ° C	Cond. mS/cm	рН	PHYSICAL APPEARANCE AND REMARKS
First	03/17/11	13:00	27.52	49.80	22.28	0.16	3.6	20	5.6	20.5	16.85	6.76	Pinkish/tan; cleared during purging
Second	06/29/11	12:00	27.68	49.80	22.12	0.16	3.5	18	5.1	21.0	15.90	6.93	Pinkish/tan; cleared during purging
Third	09/28/11	17:00	27.70	49.80	22.10	0.16	3.5	20	5.7	19.6	16.18	6.86	Pinkish/tan; cleared during purging
Fourth	12/13/11	15:00	27.79	49.80	22.01	0.16	3.5	18	5.1	18.3	15.85	6.78	

Hanna Model 98130 instrument used to obtain pH, conductivity, and temperature measurements.

Delivered samples to Xenco Laboratories in Odessa TX for chloride, sulfate, and TDS analysis.

Analytical Report 410313

for

Trident Environmental

Project Manager: Gil Van Deventer

Pride Energy Company

South Four Lakes #15 (AP-78)

22-MAR-11



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

> Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



22-MAR-11

Project Manager: Gil Van Deventer Trident Environmental P.O. Box 7624 Midland, TX 79708

Reference: XENCO Report No: 410313 Pride Energy Company Project Address: T12S-R34E-Sec 2 Unit Letter G ~ Lea County, NM

Gil Van Deventer:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 410313. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 410313 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II Odessa Laboratory Manager

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Sample Cross Reference 410313



Trident Environmental, Midland, TX

Pride Energy Company

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Mar-17-11 13:07		410313-001



CASE NARRATIVE

Client Name: Trident Environmental Project Name: Pride Energy Company



Project ID:South Four Lakes #15 (APWork Order Number:410313

Report Date: 22-MAR-11 Date Received: 03/18/2011

Sample receipt non conformances and Comments: None

Sample receipt Non Conformances and Comments per Sample:

None



Certificate of Analysi ummary 410313

Trident Environmental, Midland, TX Project Name: Pride Energy Company



Project Id: South Four Lakes #15 (AP-78)

Contact: Gil Van Deventer

Project Location: T12S-R34E-Sec 2 Unit Letter G ~ Lea Cou

Date Received in Lab: Fri Mar-18-11 01:17 pm

Report Date: 22-MAR-11 Project Manager: Brent Barron, II

	Lab Id:	410313-001	. :			
Analysis Paguastad	Field Id:	MW-1				
Analysis Requested	Depth:					
	Matrix:	WATER	•		-	
	Sampled:	Mar-17-11 13:07	· · · · ·	:		
Anions by E300	Extracted:			; ;	-	
	Analyzed:	Mar-21-11 10:52	· ;		4	
	Units/RL:	mg/L RL		 		
Chloride		5280 100		1		
Sulfate		790 100		1	1	1
TDS by SM2540C	Extracted:					· · · · · · · · · · · · · · · · · · ·
	Analyzed:	Mar-21-11 15:00			1	
	Units/RL:	mg/L RL	1		t ·	:
Total dissolved solids		10100 5.00			:	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brent Barron, II

Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to effect the recovery of the spike concentration. This condition could also effect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- **E** The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- **F** RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- **H** The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.

JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

- **RL** Reporting Limit
- **MDL** Method Detection Limit

PQL Practical Quantitation Limit

* Outside XENCO's scope of NELAC Accreditation.

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9701 Harry Hines Blvd. Dallas. TX 75220	(214) 902 0300	(214) 351-9139
5332 Blackberry Drive San Antonio TX 78238	(210) 509-3334	(210) 509-3335
2505 North Faikenburg Rd. Tampa, FL 33619	(813) 620-2000	(813) 620-2033
5757 NW 158th St. Miami Lakes, FL 33014	(305) 823-8500	(305) 823-8555
12600 West I-20 East. Odessa, TX 79765	(432) 563-1800	(432) 563-1713
842 Cantwell Lane, Corpus Christi, TX 78408	(361) 884-0371	(361) 884-9116







Work Order #: 410313 Analyst: LATCOR	D	ate Prepar	red: 03/21/201	11			Pro Date A	ject ID: 5 nalyzed: 6	South Four 03/21/2011	Lakes #15	(AP-78
Lab Batch ID: 848684 Sample: 848684-1-	BKS	Batc	b#: 1					Matrix:	Water		
Units: mg/L		BLAN	K/BLANK	SPIKE / I	BLANK S	SPIKE DUPI	LICATE	RECOVI	ERY STUD	Y	
Anions by E300 Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result (F)	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.500	. 10.0	9.91	99	10.0	9.94	99	0	80-120	20	
Sulfate	<0.500	10.0	10.5	105	10.0	10.5	105	0	80-120	20	
Analyst: WRU	Di	ate Prepar	ed: 03/21/201	1			Date A	nalyzed: (03/21/2011		
Lab Batch ID: 848683 Sample: 848683-1-	BKS	Batcl	h #: 1	N.,				Matrix:	Water		
Units: mg/L		BLAN	K /BLANK S	SPIKE / E	BLANK S	PIKE DUPI	LICATE	RECOVI	ERY STUD	Y	
TDS by SM2540C Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Total dissolved solids	<5.00	1000	958	96	1000	914	91	5	80-120	30	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)| Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes



Date Prepared: 03/21/2011



Project Name: Pride Energy Company

Work Order #: 410313

Lab Batch #: 848684

Date Analyzed: 03/21/2011

Project ID: South Four Lakes #15 (AP-7

Analyst: LATCOR

QC- Sample ID: 410286-001 S	Batch #: 1		· ·	Aatrix: W	/ater	
Reporting Units: mg/L	MATH	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	531	200	749	109	80-120	
Sulfate	123	200	326	102	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/BRelative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



Sample Duplicate Recovery

*••--`



Project Name: Pride Energy Company

Work Order #: 410313

Lab Batch #: 848684 Date Analyzed: 03/21/2011 10:52 QC- Sample ID: 410286-001 D Reporting Units: mg/L	Date Prepar Batcl	ed: 03/21/2011 n #: 1 SAMPLE /	Ana Mat SAMPLE	Project I lyst:LATC rix: Water DUPLIC	D: South Fo OR ATE REC	our Lakes #15 (A)
Anions by E300 Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride		531	517	3	20	
Sulfate		123	115	7	20	
Lab Batch #: 848683 Date Analyzed: 03/21/2011 15:00	Date Prepar	red: 03/21/2011	Апа	lyst: WRU		
QC- Sample ID: 410286-001 D	Batcl	n#: 1	Mat	rix: Water		
Reporting Units: mg/L		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Total dissolved solids		1490	1520	2	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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Phoenix, San Antonio, Tampa

Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Data: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Clim Trident Environment	al
Date/Time: 3.18-11 1:17	
Lab 10#: 410313	
Initials: LM	

Sample Receipt Checklist

1. Semples on ice?	Biue	Water	No	
2. Shipping container in good condition?	Yes	No	None	
3. Custody seels intact on shipping container (cooler) and bottles?	10	No	N/A	
4. Chain of Custody present?	Yes,	No		
5. Sample instructions complete on chain of custody?	Te	No		
6. Any missing / extra samples?	Yes	and		
7. Chain of custody signed when relinquished / received?	Ya	No		
8. Chain of custody agrees with sample label(s)?	Geo	No		
9. Container labels legible and intact?	Y	No		
10. Sample metrix / properties agree with chain of custody?	(Yee)	No ·		
11. Semples in proper container / bottle?	Yes	No		
12. Samples property preserved?	Ye	No	NA	
13. Sample container intect?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	G	No		
15. All samples received within sufficient hold time?	(Coc	No .		
16. Subcontract of sample(s)?	Yes	No	NA	
17. VOC sample have zero head space?	Yes	No		
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 N	io.	Cooler 5 No.	
ibe 3 (2 °C ibs °C ibs °		°C	ibs.	°C

Nonconformance Documentation

Contact Contacted by: Date/Time: Regarding: . **Corrective Action Taken:** .

Check sli that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.8.8.1.4.1.

E Initial and Backup Temperature confirm out of temperature conditions Client understands and would like to proceed with analysis

Analytical Report 421883

for Trident Environmental

Project Manager: Gil Van Deventer Pride Energy Company

South Four Lakes #15 (AP-78)

06-JUL-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

> Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330) Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900) Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX) Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX) Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370) Xenco-Boca Raton (EPA Lab Code: FL01273): Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917) North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona(AZ0757) Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757) Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





Project Manager: Gil Van Deventer Trident Environmental P.O. Box 7624 Midland, TX 79708

Reference: XENCO Report No: 421883 Pride Energy Company Project Address: T12S-R34E-Sec2 Unit Letter G-Lea County, NM

Gil Van Deventer:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 421883. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 421883 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron, II Odessa Laboratory Manager

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Houston - Dallas - San Antonio - Austin - Tampa - Miami - Atlanta - Corpus Christi - Latin America



Sample Cross Reference 421883

Trident Environmental, Midland, TX

Pride Energy Company

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	Jun-29-11 12:00		421883-001



CASE NARRATIVE

Client Name: Trident Environmental Project Name: Pride Energy Company



Project ID: South Four Lakes #15 (AP Work Order Number: 421883 Report Date: 06-JUL-11 Date Received: 07/01/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None



Certificate of Analysi Immary 421883

Trident Environmental, Midland, TX Project Name: Pride Energy Company

Project Id: South Four Lakes #15 (AP-78)

Contact: Gil Van Deventer

Project Location: T12S-R34E-Sec2 Unit Letter G-Lea Count

Date Received in Lab: Fri Jul-01-11 05:05 pm Report Date: 06-JUL-11

Project Manager: Brent Barron, II

	Lab Id: 4	21883-001		. · · ·
Analysis Paguastad	Field Id:	MW-1		· · ·
Analysis Kequesteu	Depth:			
	Matrix:	WATER		
	Sampled: Jun	-29-11 12:00		i i i i i i i i i i i i i i i i i i i
Anions by E300	Extracted:			
	Analyzed: Jul	-05-11 19:10		
	Units/RL: m	g/L RL		
Chloride		4540 500		
Sulfate		1170 500		
TDS by SM2540C	Extracted:			
	Analyzed: Jul	-05-11 15:30	•	
· ·	Units/RL: m	g/L RL		
Total dissolved solids		8430 5.00		

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

Houston - Dallas - San Antonio - Atlanta - Tampa - Boca Raton - Latin America - Odessa - Corpus Christi

Brent Barron, II

Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the MQL and above the SQL.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit

PQL Practical Quantitation Limit

- LOD Limit of Detection
- LOQ Limit of Quantitation
- **DL** Method Detection Limit
- NC Non-Calculable
- + Outside XENCO's scope of NELAC Accreditation.

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Work Order #: 421883	_						Pro	ject ID: S	South Four	Lakes #15	(AP-78)
Analyst: BRB	Da	ate Prepai	ed: 07/05/20	11			Date A	nalyzed: ()7/05/2011		
Lab Batch ID: 862643 Sample:	862643-1-BKS	Batc	h #: 1					Matrix:	Water		
Units: mg/L		BLAN	K /BLANK	SPIKE / 1	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUD	ŶY	
Anions by E300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added (E)	Blank Spike Duplicate Result (F)	Bik. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chlorida		10.0	0.22	07	10.0	0.00	01		80.120	20	 ,
	<0.500	10.0	9.33	93	10.0	9.09	91		80-120	20	ļ
Sulfate	<0.500	10.0	10.8	108	10.0	10.6	106	2	80-120	20	
Analyst: WRU	Da	ate Prepar	ed: 07/05/20	11			Date A	nalyzed: (07/05/2011		
Lab Batch ID: 862675 Sample:	862675-1-BKS	Batc	b #: 1					Matrix: \	Water		
Units: mg/L		BLAN	K/BLANK	SPIKE / I	BLANK S	SPIKE DUP	LICATE	RECOVI	ERY STUD	iΥ	
TDS by SM2540C Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Total dissolved solids	<5.00	1000	930	93	1000	944	94	1	80-120	30	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes





Work Order #: 421883

Lab Batch #: 862643

Project ID: South Four Lakes #15 (AP-7)

Date Analyzed: 07/05/2011 QC- Sample ID: 421830-001 S	Date Prepared: 07/05/2 Batch #: 1	2011	Analyst: BRB Matrix: Water					
Reporting Units: mg/L	MATRI	X / MA	TRIX SPIKE	RECO	VERY STU	DY		
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	% R [D]	Control Limits %R	Flag		
Chloride	46.9	500	507	92	80-120			
Sulfate	113	500	530	83	80-120			

Matrix Spike Percent Recovery $[D] = 100^{+}(C-A)/B$ Relative Percent Difference $[E] = 200^{+}(C-A)/(C+B)$ All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit



-___^ <u>£</u>



Project Name: Pride Energy Company

Work Order #: 421883

Lab Batch #: 862643		1 07/05/2011		Project I	D: South Fo	ur Lakes #15
Date Analyzed: 07/05/2011 19:10	Date Prepar	ea: 0//05/2011	Ana	IYST: BKB		
QC- Sample ID: 421830-001 D	Batch	n#: 1	Mat	rix: Water	, 	
Reporting Units: mg/L		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
Anions by E300	-	Parent Sample Result [A]	Sample Duplicate Result (B)	RPD	Control Limits %RPD	Flag
Апајуте						
Chloride		46.9	42.1	11	20	
Sulfate		113	103	9	20	
Lab Batch #: 862675					<u></u> ,	
Date Analyzed: 07/05/2011 15:30	Date Prepar	ed: 07/05/2011	Ana	lyst: WRU		
QC- Sample ID: 421830-001 D	Batch	n#: 1	Mat	trix: Water	•	
Reporting Units: mg/L		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C		Parent Sample Result [A]	Sample Duplicate Result (Bl	RPD	Control Limits %RPD	Flag
Anaiyte			[~]			
Total dissolved solids		2260	2200	3	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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		(G)rab or (C	# CONTA	WATER	SOIL	AIR	SLUDGE			HNO3 NaHSO	С И И	ICE	NONE	DATE	TIME	MTBE 802	BTEX 802'	TPH 418.1	PAH 62700	TCLP Meta	TCLP Volat	TCLP Semi	TCLP Pesti RCI	GC/MS Vol	GC/MS Ser	Moisture Co	Cations (Ca	Anions (Cl,	Total Disso	Chloride / C Sulfate / S(Turn Aroun
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XENCO Laboratories

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Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client:	Pride Energy	<u></u>
Date/Time:	7-1-11 5:051	
Lab 1D # :	421883	
Initials:	dM	

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	es	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	N/A	
4. Chain of Custody present?	Yee	No		
5. Sample instructions complete on chain of custody?	Yes	No		
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinquished / received?	Yes	No		
8. Chain of custody agrees with sample label(s)?	Yes	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		
11. Samples in proper container / bottle?	Yes	No		
12. Samples property preserved?	Tes	No	N/A	
13. Sample container intact?	(Yes)	No		
14. Sufficient sample amount for indicated test(s)?	Yeş	No		
15. All samples received within sufficient hold time?	Yes	No		_
16. Subcontract of sample(s)?	Yes	No	N/A	
17. VOC sample have zero head space?	Yes	No	(N/A)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	D.	Cooler 5 No.	
	lbs	°C	lbs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	
Regarding:			
			•
Corrective Action Tak	en:		
Check all that apply:	□ Cooling process has begun shortly after sa condition acceptable by NELAC 5.5.8	mpling event and out of temperature .3.1.a.1.	

□ Initial and Backup Temperature confirm out of temperature conditions

Client understands and would like to proceed with analysis

Analytical Report 428778

for

Trident Environmental

Project Manager: Gil Van Deventer Pride Energy Company South Four Lakes # 15 (AP-78)

10-OCT-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



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Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)





Project Manager: Gil Van Deventer Trident Environmental P.O. Box 7624 Midland, TX 79708

Reference: XENCO Report No: 428778 Pride Energy Company Project Address: T12S-R34E-Sec 2 Unit Letter G ~ Lea County, NM

Gil Van Deventer:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 428778. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 428778 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

ATA

Brent Barron II Odessa Laboratory Manager

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ware

Sample Cross Reference 428778



Trident Environmental, Midland, TX

Pride Energy Company

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	09-28-11 17:00		428778-001



CASE NARRATIVE

Client Name: Trident Environmental Project Name: Pride Energy Company



Project ID:South Four Lakes # 15 (A)Work Order Number:428778

Report Date: 10-OCT-11 Date Received: 09/30/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-871512 Anions by E300 The RPD between the sample and sample duplicate was above the QC limit for Chloride. This is most likely due to sample non-homogeniety.

Batch: LBA-871899 TDS by SM2540C

The RPD between the Sample and Sample Duplicate for this batch was above the QC limits. This is most likely due to sample non-homogeneity (excess particles.)



Certificate of Analys ummary 428778

Trident Environmental, Midland, TX Project Name: Pride Energy Company



Project Id: South Four Lakes # 15 (AP-78)

Contact: Gil Van Deventer

Project Location: T12S-R34E-Sec 2 Unit Letter G ~ Lea Cou

Date Received in Lab: Fri Sep-30-11 03:01 pm Report Date: 10-OCT-11

Project Manager: Brent Barron II

	Lab Id:	428778-0	001	;	,			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
Analysis Paguastad	Field Id:	MW-1	l	1	:			
Analysis Requested	Depth:				: *		:	
	Matrix:	WATE	R	i 1	t.	·		
	Sampled:	Sep-28-11	17:00		•	:		
Anions by E300	Extracted:						r	
	Analyzed:	Oct-03-11	14:31	:			t .	- •
	Units/RL:	mg/L	RL	:			i	:
Chloride		5090	250				•	
Sulfate		688	250	•	· ·		4	
TDS by SM2540C	Extracted:			· · · · · · · · · · · · · · · · · · ·			;	· · · · · · · · ·
·	Analyzed:	Oct-05-11	13:30		i	i r		:
	Units/RL:	mg/L	RL		1		1	-
Total dissolved solids		8400	5.00	1			1	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron II Odessa Laboratory Manager



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection
PQL Practical Quantitation Limit	MQL Method Quantitation Limit	LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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Work Order #: 428778 Analyst: BRB	D	ate Prepai	red: 10/03/20	11			Pro Date A	ject ID: 5 nalyzed:	South Four 10/03/2011	Lakes # 15	5 (AP-78
Lab Batch ID: 871512 Sample: 871	512-1-BKS	Batc	h #: 1					Matrix:	Water	·	
Units: mg/L		BLAN	K/BLANK	SPIKE / I	BLANK S	PIKE DUP	LICATE	RECOV	ERY STUE	PY	
Anions by E300	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Bik. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride	<0.500	10.0	10.6	106	10.0	10.6	106	0	80-120	20	
Sulfate	<0.500	12.3	12.3	100	12.3	12.3	100	0	80-120	20	
Analyst: BRB	Da	ate Prepai	red: 10/05/20	11			Date A	nalyzed:	10/05/2011		
Lab Batch ID: 871899 Sample: 871	899-1-BKS	Batc	h #: 1					Matrix: '	Water		
Units: mg/L		BLAN	K/BLANK	SPIKE / I	BLANK S	PIKE DUP	ICATE	RECOVI	ERY STUE	Y	
TDS by SM2540C Analytes	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Bik. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Total dissolved solids	<5.00	1000	886	89	1000	854	85	4	80-120	30	

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|Blank Spike Recovery [D] = 100*(C)/[B]Blank Spike Duplicate Recovery [G] = 100*(F)/[E]All results are based on MDL and Validated for QC Purposes





Work Order #: 428778

Lab Batch #: 871512 Date Analyzed: 10/03/2011

Date Prepared: 10/03/2011

Project ID: South Four Lakes # 15 (AP-71

Analyst: BRB

QC- Sample ID: 428778-001 S	Batch #: 1		N	latrix: W	/ater	
Reporting Units: mg/L	MATE	RIX / MA	TRIX SPIKE	RECO	VERY STU	DY
Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	5090	5000	10600	110	80-120	
Sulfate	688	5000	5790	102	80-120	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B Relative Percent Difference [E] = 200*(C-A)/(C+B)All Results are based on MDL and Validated for QC Purposes

BRL - Below Reporting Limit





Work Order #:	428778			•	•		
Lab Batch #: Date Analyzed: QC- Sample ID:	871512 10/03/2011 14:31 428605-001 D	Date Prepar Batcl	red: 10/03/2011	Ana Ma	Project II lyst:BRB trix: Water	D: South Fo	ur Lakes #
Reporting Units:	mg/L		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
	Anions by E300 Analyte		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	· · · · · · · · · · · · · · · · · · ·		312	246	24	20	F
Sulfate			<10.0	<10.0	0	20	U
Lab Batch #: Date Analyzed: QC- Sample ID:	871512 10/03/2011 14:31 428778-001 D	Date Prepar Batcl	red:10/03/2011	Ana Ma	nlyst: BRB trix: Water		
Reporting Units:	mg/L		SAMPLE	SAMPLE	DUPLIC	ATE REC	OVERY
	Anions by E300		Parent Sample Result [A]	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
	Analyte			(B)			
Chloride			5090	5070	0	20	
Sulfate			688	746	8	20	
Lab Batch #: Date Analyzed: QC- Sample ID:	871899 10/05/2011 13:30 428777-001 D	Date Prepar Batcl	red: 10/05/2011	Ana Ma	llyst: BRB trix: Water		
Reporting Units:	mg/L		SAMPLE	SAMPLE	DUPLIC.	ATE REC	OVERY
	TDS by SM2540C		Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
	Analyte		3		1		1

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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XENCO Laboratories Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Date: No. 01, 5/27/2010 Effective Date: 6/1/2010 Page 1 of 1

Prelogin / Nonconformance Report - Sample Log-In

Client:	rident Env	
Date/Time:	930 11 15 DI	_
Lab ID # :	428778	_
Initials:		

Sample Receipt Checklist

1. Samples on ice?	Blue	Water	No	
2. Shipping container in good condition?	(Yee)	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	(NÃ)	
4. Chain of Custody present?	Yes	No		
5. Sample instructions complete on chain of custody?	(Yes)	No		
6. Any missing / extra samples?	Yes	No		
7. Chain of custody signed when relinquished / received?	(100)	No		
8. Chain of custody agrees with sample label(s)?	(Yes)	No		
9. Container labels legible and intact?	Yes	No		
10. Sample matrix / properties agree with chain of custody?	Yes	No		
11. Samples in proper container / bottle?	(Yes)	No		
12. Samples property preserved?	Yes	No	N/A	
13. Sample container intact?	Yes	No		
14. Sufficient sample amount for indicated test(s)?	(Yes	No		
15. All samples received within sufficient hold time?	Yes	No		
16. Subcontract of sample(s)?	Yes	No	CNA	
17. VOC sample have zero head space?	Yes	No	(NA)	
18. Cooler 1 No. Cooler 2 No. Cooler 3 No.	Cooler 4 No	D	Cooler 5 No.	
	lbs	°C	lbs	°C

Nonconformance Documentation

Contact:___

Date/Time:_

Regarding:

Corrective Action Taken:

Check all that apply: Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.

Contacted by:____

□ Initial and Backup Temperature confirm out of temperature conditions

Client understands and would like to proceed with analysis

Analytical Report 433331

for

Trident Environmental

Project Manager: Gil Van Deventer Pride Energy Company South Four Lakes # 15 (AP-78)

27-DEC-11

Collected By: Client



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122): Texas (T104704215-10-6-TX), Arizona (AZ0765), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002) Illinois (002082), Indiana (C-TX-02), Iowa (392), Kansas (E-10380), Kentucky (45), Louisiana (03054) New Hampshire (297408), New Jersey (TX007), New York (11763), Oklahoma (9218), Pennsylvania (68-03610) Rhode Island (LAO00312), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046): Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85) Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)
Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)
Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)
Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)
Xenco-Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



27-DEC-11

Project Manager: Gil Van Deventer Trident Environmental P.O. Box 7624 Midland, TX 79708

Reference: XENCO Report No: 433331 Pride Energy Company Project Address: T12S-R34-E-Sec 2 Unit Letter G ~ Lea County, NM

Gil Van Deventer:

We are reporting to you the results of the analyses performed on the samples received under the project name referenced above and identified with the XENCO Report Number 433331. All results being reported under this Report Number apply to the samples analyzed and properly identified with a Laboratory ID number. Subcontracted analyses are identified in this report with either the NELAC certification number of the subcontract lab in the analyst ID field, or the complete subcontracted report attached to this report.

Unless otherwise noted in a Case Narrative, all data reported in this Analytical Report are in compliance with NELAC standards. Estimation of data uncertainty for this report is found in the quality control section of this report unless otherwise noted. Should insufficient sample be provided to the laboratory to meet the method and NELAC Matrix Duplicate and Matrix Spike requirements, then the data will be analyzed, evaluated and reported using all other available quality control measures.

The validity and integrity of this report will remain intact as long as it is accompanied by this letter and reproduced in full, unless written approval is granted by XENCO Laboratories. This report will be filed for at least 5 years in our archives after which time it will be destroyed without further notice, unless otherwise arranged with you. The samples received, and described as recorded in Report No. 433331 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

We thank you for selecting XENCO Laboratories to serve your analytical needs. If you have any questions concerning this report, please feel free to contact us at any time.

Respectfully,

Brent Barron II Odessa Laboratory Manager

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Sample Cross Reference 433331

Trident Environmental, Midland, TX

Pride Energy Company

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
MW-1	W	12-13-11 15:00		433331-001

Page 3 of 11

CASE NARRATIVE



Client Name: Trident Environmental Project Name: Pride Energy Company



Project ID: South Four Lakes # 15 (Al Work Order Number: 433331 Report Date: 27-DEC-11 Date Received: 12/14/2011

Sample receipt non conformances and comments: None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-877639 Inorganic Anions by EPA 300/300.1 E300

Batch 877639, Chloride, Sulfate recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 433331-001.

The Laboratory Control Sample for Chloride, Sulfate is within laboratory Control Limits



Certificate of Analys ummary 433331

Trident Environmental, Midland, TX

Project Name: Pride Energy Company

Project Id: South Four Lakes # 15 (AP-78)

Contact: Gil Van Deventer

Project Location: T12S-R34-E-Sec 2 Unit Letter G ~ Lea Co

Date Received in Lab: Wed Dec-14-11 11:40 am

Report Date: 27-DEC-11 Project Manager: Brent Barron II

	Lab Id:	433331-001				
Analysis Peanested	Field Id:	MW-1			:	
Analysis Requested	Depth:		1 • •	· · ·		
	Matrix:	WATER		·		
	Sampled:	Dec-13-11 15:00		:		
Inorganic Anions by EPA 300/300.1	Extracted:	Dec-21-11 15:20	1	,		
SUB: E871002	Analyzed:	Dec-21-11 15:20			1	
	Units/RL:	mg/L R		·		
Chloride		5570 D 20	.0		:	
Sulfate		844 2.	00	:		1
TDS by SM2540C	Extracted:					
SUB: E871002	Analyzed:	Dec-17-11 12:00			2	
	Units/RL:	mg/L R			1	·
Total dissolved solids		8780 5.	0		1	

This analytical report, and the entire data package it represents, has been made for your exclusive and confidential use. The interpretations and results expressed throughout this analytical report represent the best judgment of XENCO Laboratories. XENCO Laboratories assumes no responsibility and makes no warranty to the end use of the data hereby presented. Our liability is limited to the amount invoiced for this work order unless otherwise agreed to in writing.

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Brent Barron II Odessa Laboratory Manager

Page 5 of 11



Flagging Criteria

- X In our quality control review of the data a QC deficiency was observed and flagged as noted. MS/MSD recoveries were found to be outside of the laboratory control limits due to possible matrix /chemical interference, or a concentration of target analyte high enough to affect the recovery of the spike concentration. This condition could also affect the relative percent difference in the MS/MSD.
- **B** A target analyte or common laboratory contaminant was identified in the method blank. Its presence indicates possible field or laboratory contamination.
- **D** The sample(s) were diluted due to targets detected over the highest point of the calibration curve, or due to matrix interference. Dilution factors are included in the final results. The result is from a diluted sample.
- E The data exceeds the upper calibration limit; therefore, the concentration is reported as estimated.
- F RPD exceeded lab control limits.
- J The target analyte was positively identified below the quantitation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- * Surrogate recovered outside laboratory control limit.

BRL Below Reporting Limit.

RL Reporting Limit

MDL Method Detection Limit	SDL Sample Detection Limit	LOD Limit of Detection

PQL Practical Quantitation Limit MQL Method Quantitation Limit LOQ Limit of Quantitation

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

^ NELAC or State program does not offer Accreditation at this time.

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(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	

|--|

Analyst: MAB		Da	ate Prepar	ed: 12/21/201	1			Pro Date A	ject ID: S nalyzed:]	South Four 12/21/2011	Lakes # 15	(AP-78
Lab Batch ID: 877639	Sample: 615765-1-BK	s	Bate	h #: 1					Matrix: \	Water		
Units: mg/L			BLAN	K/BLANK S	SPIKE / H	BLANK S	PIKE DUPI	LICATE	RECOVI	ERY STUD	ŶŶ	
Inorganic Anions by E	CPA 300/300.1	Blank ample Result [A]	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
Analytes			[B]		וען	[E]	Kesult [r]	[U]				
Chloride		<0.200	50.0	53.5	107	50.0	54.0	108	1	80-120	20	
Sulfate		<0.200	50.0	54.8	110	50.0	54.8	110	0	80-120	20	
Analyst: MAB		Da	te Prepar	ed: 12/17/201	1			Date A	nalyzed:	12/17/2011		
Lab Batch ID: 877320	Sample: 877320-1-BKS	S	Bate	h #: 1					Matrix: \	Water		
Units: mg/L			BLAN	K/BLANK S	SPIKE / E	BLANK S	PIKE DUPI	ICATE	RECOVI	ERY STUD	Y	
TDS by SM2: Analytes	540C Sa	Blank ample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Total dissolved solids		<5.00	1000	1030	103	1000	1030	103	0	80-120	30	

Relative Percent Difference RPD = 200*[(C-F)/(C+F)] Blank Spike Recovery [D] = 100*(C)/[B] Blank Spike Duplicate Recovery [G] = 100*(F)/[E] All results are based on MDL and Validated for QC Purposes

Project ID: South Four Lakes # 15 (AP-78) Work Order #: 433331 Lab Batch ID: 877639 QC-Sample ID: 433328-010 S Batch #: 1 Matrix: Water Date Prepared: 12/21/2011 MAB Date Analyzed: 12/21/2011 Analyst: Reporting Units: mg/L MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY Parent Spiked Sample Spiked Duplicate Spiked Control Control Inorganic Anions by EPA 300/300.1 Sample Sample Spiked Sample Flag Spike Result Spike Dup. RPD Limits Limits Result Added %Ř Added Result [F] %R % %R %RPD **(C)** Analytes **[A] [B]** [D] [E] [G] Chloride 117 216 500 803 500 740 105 8 80-120 20 Sulfate 65.3 500 680 123 500 620 111 9 80-120 20 х Lab Batch ID: 877639 OC- Sample ID: 433729-002 S Batch #: 1 Matrix: Water Date Prepared: 12/21/2011 MAB Date Analyzed: 12/21/2011 Analyst: Reporting Units: mg/L **MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY** Parent Spiked Sample Spiked Duplicate Control Spiked Control **Inorganic Anions by EPA 300/300.1** Sample Spike Result Sample Spike Spiked Sample Dup. RPD Limits Limits Flag Result Added [**C**] %R Added Result (F) %R % %R %RPD Analytes [A] **[B]** [D] [E] [G] Chloride 88.0 50.0 125 74 50.0 124 72 1 80-120 20 х < 0.200 0 50.0 < 0.200 0 NC 80-120 20 х Sulfate 50.0 < 0.200

Matrix Spike Percent Recovery $[D] = 100^{\circ}(C-A)/B$ Relative Percent Difference RPD = $200^{\circ}[(C-F)/(C+F)]$ Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not ApplicableN = See Narrative, EQL = Estimated Quantitation Limit

Pag. 11

Sample Duplicate Recovery

Project Name: Pride Energy Company

Work Order #: 433331

Lab Batch #: 877320				Project I	D: South Fo	ur Lakes # 15 (Al
Date Analyzed: 12/17/2011 12:00	Date Prepar	ed: 12/17/2011	Ana	lyst:MAB		
QC- Sample ID: 433232-001 D	Batcl	h#: 1	Mat	trix: Water		
Reporting Units: mg/L		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C		Parent Sample Result	Sample Duplicate Result	RPD	Control Limits %RPD	Flag
Analyte		101	[B]			
Total dissolved solids		360	366	2	30	
Lab Batch #: 877320						
Date Analyzed: 12/17/2011 12:00	Date Prepar	ed: 12/17/2011	Ana	lyst:MAB		
QC- Sample ID: 433306-001 D	Batcl	h#: 1	Ma	trix: Water		•
Reporting Units: mg/L		SAMPLE /	SAMPLE	DUPLIC	ATE REC	OVERY
TDS by SM2540C	- <u>.</u>	Parent Sample Result [A]	Sample Duplicate Resuit	RPD	Control Limits %RPD	Flag
Analyte			[B]			
Total dissolved solids		1140	1250	9	30	

Spike Relative Difference RPD 200 * | (B-A)/(B+A) | All Results are based on MDL and validated for QC purposes. BRL - Below Reporting Limit

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LAB # FIELD CODE	(G)rab or (C)omp	# CONTAINERS	WATER	SOIL	AIR	SLUDGE		HUL (BIEX ONY)		H ₂ SO ₄	ICE .	NONE	DATE	TIME	MTBE 8021B/602	BTEX 8021 B	TPH 418.1/TX1005/	PAH 8270C	I otal Metals Ag As B TC! D Metals Ac Ac 4	TCI D Volatilae	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B/f	GC/MS Semi. Vol. 8	Moisture Content	Cations (Ca, Mg, Na,	Anions (CI, SO4, CO	10tali Ulasoiveu ouitu Chinrida / Cir (SM450	Sulfate / SO4 (375.4)	
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Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample	Yes	on Cool	Yes No	Intact		Ci (ir	HÉC	s)	BY:					-	Ψü	rp	R. .0	20 "0	d -	<u>gi</u> m	<u>@t</u> attr	ride @c	<u>ent-</u> orid	<u>env</u> le-e	<u>viro</u> nei	nm rgy.	enta .con	<u>11.00</u> 1	<u>m</u> i	

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YCNCO	•
YENCO	
Laboratories	

XEN	D Laboratories
Atlanta	a, Boca Ration, Corpus Christi, Dallar
House	on, Miami, Odessa, Philadelphia
Phoer	ac, Sen Antonio, Tempe

Document Title: Sample Receipt Checklist Document No.: SYS-SRC Revision/Data: No. 01, 5/27/2010 Effective Data: 6/1/2010 Page 1 of 1

Preiogin / Nonconformance Report - Sample Log-In

Client:	rident	
Date/Time:	12.14.11	11:40
Leb ED #:	433-	33
Intlinie: · ·	WRAE	-

Sample Receipt Checklist

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1. Semples on Ice?		•		Bha		No	
2. Shipping container	n good condition?	C	Yes	No	None		
3. Custody seels intac	t on shipping contain	er (cooler) and bottlee?		Yes	No		
4. Chein of Custody p	cent?			Yaq	No		
5. Sample Instructions	complete on chain o	f custody?		Yes	No		
6. Any missing / extra	eamples?			Yes	5		
7. Chain of custody si	pned when rolinguish	od / received?		Yes	No		
8. Chain of custody ap	rees with sample lab	el(s)?	((Yee)	No		
9. Container labels inc	ible and intact?		2	Yes	No		
10. Sample matrix / pr	operties agree with cl	nain of custody?	C	Yes	No ·		
11. Samples in proper	container / bottle?			Te	No		
12. Samples property	preserved?			Y	No	NA	
13. Sample container	intact?		k	Yes	No		
14. Sufficient sample	mount for indicated	tast(s)?		- Ym	No		
15. All camples receiv	ed within sufficient h		Yee	No			
16. Subcontract of sample(s)?					No	NA	
17. VOC sample have	zero head space?		Yes	No	(NA)		
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	C	cooler 4 No		Cooler 5 No	
10 1.0	°C (be	°C Ibe	°C	lbs	°C	ibs	°C

Nonconformance Documentation

Contact:	Contacted by:	Date/Time:	
Regarding:			_
	· · · · · · · · · · · · · · · · · · ·	/	_
Corrective Action Tak	en:		
		۴ <u>۴</u>	
			_
			_
Check all that apply:	Cooling process has begun shortly after condition acceptable by NELAC & Initial and Backup Temperature confirm	r sampling event and out of temperature 15.5.3.1.a.1. 1 out of temperature conditions meand with such the	

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