YATES PETROLEUM CORPORATION
105 SOUTH FOURTH STREET
ARTESIA, NEW MEXICO 88210-2118
TELEPHONE (575) 748-1471

January 4, 2009

Mr. Leonard Lowe
NMOCD
1220 St. Francis Drive
Santa Fe, New Mexico 87505

Re: Penasco Compressor Station
GW-125
Eddy County, New Mexico
Supplemental Work Plan

Mr. Lowe,

Agave Energy Company and Yates Petroleum Corporation are submitting this information to update you as to the status of the below-grade tank/sump removal at the Penasco Compressor Station.

Agave Energy Company is the operator of the Penasco Compressor Station and Yates Petroleum Corporation is the owner. Agave has been the operator since 1997. Agave personnel did not install any of the below-grade sumps referenced in this project.

Agave acknowledges that there were five below-grade containers acting as sumps at the Penasco Compressor Station. By sump, Agave means a collection device incorporated within a secondary containment system, which remains predominantly empty and serves as a receptacle for de minimis releases on an intermittent basis and is not used to store, treat, dispose of or evaporate products or wastes. However, these devices were over 500 gallons.

Approximately three years ago, Agave inquired with OCD as to the feasibility of removing those tanks. OCD personnel told us that we would have to submit a modification to the discharge permit in order to remove the sumps. During an inspection of the facility in April 2009, the inspector informed Agave that OCD's policy had changed and that the discharge plan would not have to be modified in order to proceed with removing the sumps.

During the April 2009 inspection, OCD advised Agave personnel to remove the below-grade sumps. In November 2009, Agave personnel proceeded with a major remediation project to remove all five below grade sumps and the removal of the south tank battery due to potential concerns regarding the secondary containment. Rather than rebuilding the containment, Agave decided to remove the tank battery and to re-route the liquids to the northeast tank battery all ready on site. The northern tank battery has adequate concrete secondary containment.

In its Work Plan, submitted in November, 2009, Agave committed to excavating to five feet below the sumps and equipment. If soil levels for chlorides, BTEX and TPH could not be met after further excavation, Agave agreed to contact the OCD. Agave has excavated below the former equipment and has even excavated an additional 3 to 5 feet. The excavations resulted in the results below. (For convenience, Agave has identified the below-grade sumps with the Unit numbers that they served. The fifth sump is included in the removal of the south tank battery.)

BGT 005 and BGT 025 were removed first. The soil sample results were as follows (all units in ppm):

Unit	RRAL	Unit 025		Unit 005	
		Sample 1	Sample 2	Sample 1	Sample 2
Chlorides	50	33.3	12.4	15.5	20.4
BTEX	10	ND	ND	ND	ND
TPH	100	ND	ND	ND	ND

As can be seen from the above samples, the soil meets the RRALs for the appropriate constituents. These sample results were conveyed to you via email on November 12 and again on November 18. With no objections presented to Agave, these pits were backfilled. (Agave was uncomfortable having large holes on-site with the long holiday weekend forthcoming.)

Agave proceeded removing BGT 002 and BGT 023. The final results are summarized below:

Unit	RRAL	Unit 002		Unit 023		
		Sample 1	Sample 2	Sample 1	Sample 2	Sample 3
Chlorides	50	76.8	103	BRL	22.4	11.2
BTEX	10	0.008	BRL	23.35	0.0184	9.891
TPH	100	194	21	1482	51.2	2233

The samples indicate that chlorides and TPH may be above the recommended levels in certain areas at Unit 002 and BTEX and TPH may be above the recommended levels in certain areas at Unit 023.

The tanks and piping were also removed from the south tank battery. Samples were taken at 1 foot and 4 foot depths. The composite samples represented one of four quadrants from the resulting area.

Unit	RRAL	Sample 1	Sample 2	Sample 3	Sample 4	Sample 5	Sample 6	Sample 7	Sample 8
Chlorides	50	119	97.3	103	103	118	53.4	87.3	85.5
BTEX	10	1.41	5.84	0.10	0.46	5.59	5.11	0.62	2.14
TPH	100	605	881	791	771	762	593	701	405

Agave has excavated these areas twice in an attempt to ensure that the soil meets the RRALs. However, Agave cannot continue to enlarge these excavations for several reasons.

- The location of the excavations is potentially compromising existing equipment, especially the former BGT 023 location. There is a meter housing on one side of the excavation and ambitrol and lube oil storage tanks on the other.

- Any further downward excavation of any of the three would subject the excavation to confined space entry requirements. (Due to their locations, they cannot reasonably be widened at this time.) This will make forthcoming work more difficult if not impossible to complete.

- The excavations for Unit 002 and the former tank battery are at the edge of our lease. We cannot evacuate soil off of our lease without permission.

In light of the above, Agave does not believe that further excavation is possible. Hence, Agave proposes to backfill the excavations. We acknowledge that there may potentially be contamination on site. Agave proposes to continue excavation and removal, if necessary, when the facility under goes final closure. At that time, all of the surface equipment will be removed and any necessary further remedial activity can proceed.

Agave has removed the potential sources of the contamination and, hence, the nature and extent of any contamination has been contained. The sumps were replaced with above ground blowcases. The south tank battery was removed and all liquids re-routed to the north tank battery.

Agave has made a good faith effort to remediate impacts at Units 002 and 023 as well as the former tank battery. In this vein, Agave has spent over $200,000 and a large number of man hours on this project to date and additional work must be completed (i.e., backfill and surface leveling still need to occur).

As the open excavations present a potential unnecessary safety hazard, despite steps we have taken to ensure the safety of our workers, we request that the OCD respond within 10 business days of receipt of this letter. Please contact me at your earliest convenience to discuss this revised closure plan.

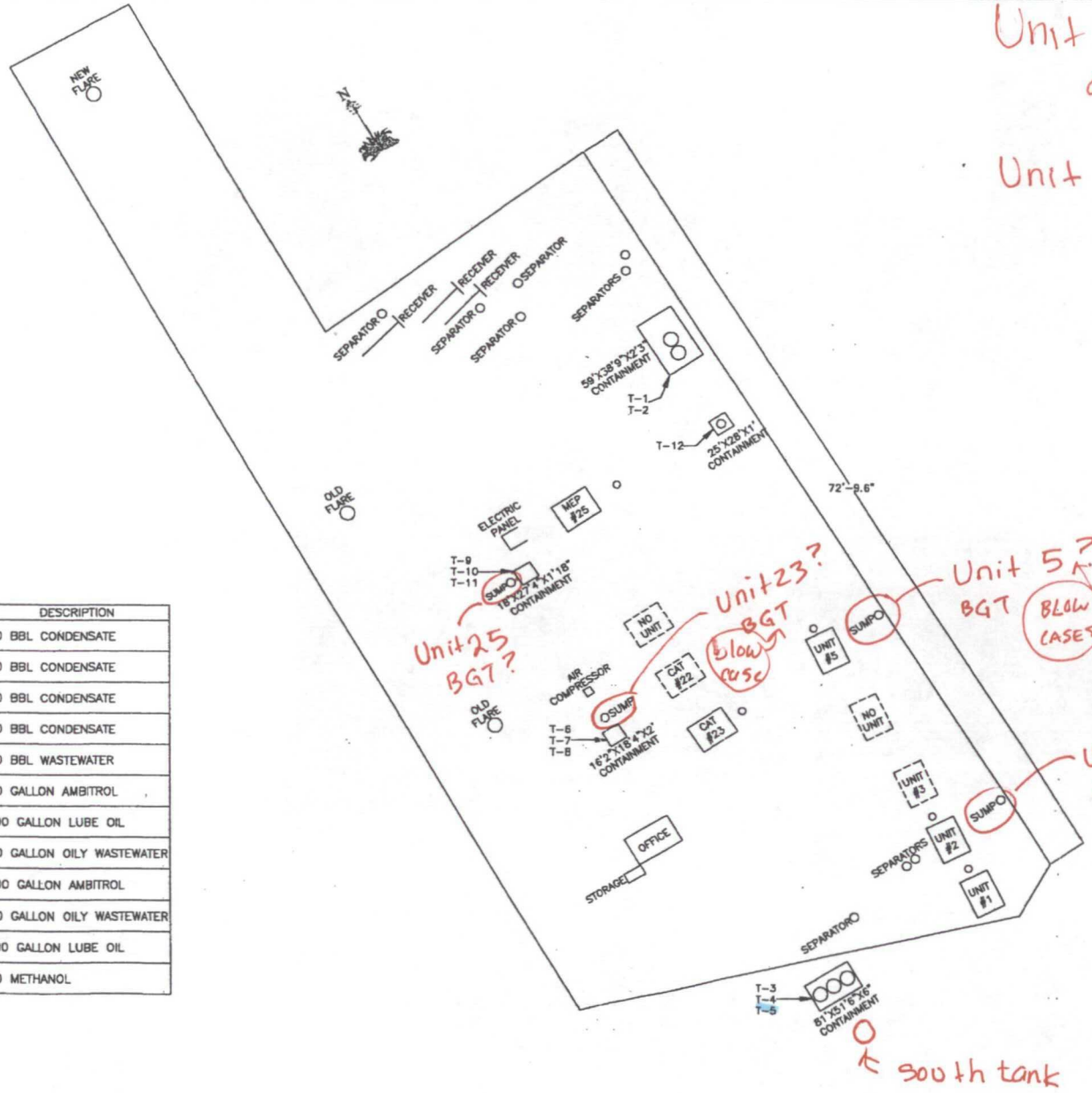
Sincerely,

Jennifer Knowlton

Jennifer Knowlton
Environmental Engineer

Unit 5 & 25 first remove all good backfilled.

Unit 2 & 23
↳ chlorods
↳ TPH



ITEM	QTY	OBJECT	DESCRIPTION
TK 1	1	TANK	500 BBL CONDENSATE
TK 2	1	TANK	500 BBL CONDENSATE
TK 3	1	TANK	250 BBL CONDENSATE
TK 4	1	TANK	250 BBL CONDENSATE
TK 5	1	TANK	210 BBL WASTEWATER
TK 6	1	TANK	750 GALLON AMBITROL
TK 7	1	TANK	1500 GALLON LUBE OIL
TK 8	1	TANK	750 GALLON OILY WASTEWATER
TK 9	1	TANK	1500 GALLON AMBITROL
TK 10	1	TANK	750 GALLON OILY WASTEWATER
TK 11	1	TANK	1500 GALLON LUBE OIL
TK 12	1	TANK	210 METHANOL

AGAVE ENERGY COMPANY
105 South Fourth Street, Artesia, New Mexico 88210

PENASCO
PLOT PLAN

CHK: JK	COUNTY: EDDY	SECTION:
DRAFTING: TWH	STATE: NEW MEXICO	TOWNSHIP:
APPROVED:		RANGE:
DATE: 1/19/07	SIZE: ANSI B	SCALE: NA
PRINTED: 4/10/07	REV:	SHEET 1 OF 1

Battery?

Penasco Compressor Station
December 30, 2009
Unit 005
Unit 025

Unit 025

Penasco Compressor Station
December 30, 2009
Unit 005
Unit 025

Unit 005

Analytical Report 351048

for

Agave Energy

Project Manager: Jennifer Knowlton

Penasco Compressor Station

11-NOV-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-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 (LAO00308), USDA (S-44102)

Xenco-Atlanta (EPA Lab Code: GA00046):
Florida (E87428), 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 (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

11-NOV-09

Project Manager: **Jennifer Knowlton**
Agave Energy
105 S. Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: **351048**
Penasco Compressor Station
Project Address: Eddy County

Jennifer Knowlton:

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 351048. 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. 351048 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

Sample Cross Reference 351048

Agave Energy, Artesia, NM

Penasco Compressor Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-001	S	Nov-02-09 11:04	6 - 6 ft	351048-001
GS/Comp-002	S	Nov-02-09 11:28	7 - 7 ft	351048-002
GS/Comp-003	S	Nov-02-09 12:02	7 - 7 ft	351048-003
GS/Comp-004	S	Nov-02-09 12:02	8 - 8 ft	351048-004

CASE NARRATIVE

XENCO Laboratories

Client Name: Agave Energy
Project Name: Penasco Compressor Station

Project ID:
Work Order Number: 351048

Report Date: 11-NOV-09
Date Received: 11/05/2009

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-780678 Percent Moisture
None

Batch: LBA-780716 Anions in Soil By EPA 300.0
None

Batch: LBA-781088 TPH by SW 8015B
None

Batch: LBA-781159 BTEX by EPA 8021
SW8021BM

Batch 781159, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 351048-002, -003, -001, -004.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Certificate of Analysis Summary 351048

Agave Energy, Artesia, NM

Project Name: Penasco Compressor Station

Project Id:

Contact: Jennifer Knowlton

Project Location: Eddy County

Date Received in Lab: Thu Nov-05-09 09:45 am

Report Date: 11-NOV-09

Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	351048-001		351048-002		351048-003		351048-004					
	Field Id:	GS/Comp-001		GS/Comp-002		GS/Comp-003		GS/Comp-004					
	Depth:	6-6 ft		7-7 ft		7-7 ft		8-8 ft					
	Matrix:	SOIL		SOIL		SOIL		SOIL					
	Sampled:	Nov-02-09 11:04		Nov-02-09 11:28		Nov-02-09 12:02		Nov-02-09 12:02					
Anions in Soil By EPA 300.0	*Extracted:*												
	Analyzed:	Nov-06-09 17:24		Nov-06-09 17:24		Nov-06-09 17:24		Nov-06-09 17:24					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		33.3	4.20	12.4	4.20	15.5	4.20	20.4	4.20				
BTEX by EPA 8021	*Extracted:*	Nov-10-09 15:30		Nov-10-09 15:30		Nov-10-09 15:30		Nov-10-09 15:30					
	Analyzed:	Nov-10-09 17:30		Nov-10-09 17:51		Nov-10-09 18:12		Nov-10-09 18:34					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011				
Toluene		ND	0.0022	ND	0.0021	ND	0.0021	ND	0.0023				
Ethylbenzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011				
m,p-Xylenes		ND	0.0022	ND	0.0021	ND	0.0021	ND	0.0023				
o-Xylene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011				
Xylenes, Total		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011				
Total BTEX		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0011				
Percent Moisture	*Extracted:*												
	Analyzed:	Nov-05-09 17:00		Nov-05-09 17:00		Nov-05-09 17:00		Nov-05-09 17:00					
	Units/RL:	%	RL	%	RL	%	RL	%	RL				
Percent Moisture		9.66	1.00	6.68	1.00	6.03	1.00	12.0	1.00				
TPH by SW 8015B	*Extracted:*	Nov-09-09 12:00		Nov-09-09 12:00		Nov-09-09 12:00		Nov-09-09 12:00					
	Analyzed:	Nov-10-09 02:28		Nov-10-09 02:55		Nov-10-09 03:21		Nov-10-09 03:47					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C10 Gasoline Range Hydrocarbons		ND	16.6	ND	16.1	ND	16.0	ND	17.0				
C10-C28 Diesel Range Hydrocarbons		ND	16.6	ND	16.1	ND	16.0	ND	17.0				
Total TPH 8015B		ND	16.6	ND	16.1	ND	16.0	ND	17.0				

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

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 351048,

Project ID:

Lab Batch #: 781159 **Sample:** 542848-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/10/09 16:06

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0301	0.0300	100	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 781159 **Sample:** 542848-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/10/09 16:27

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0300	0.0300	100	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 781159 **Sample:** 542848-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/10/09 17:09

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0267	0.0300	89	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 781159 **Sample:** 351048-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/10/09 17:30

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0272	0.0300	91	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

Lab Batch #: 781159 **Sample:** 351048-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/10/09 17:51

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0269	0.0300	90	80-120	
4-Bromofluorobenzene	0.0305	0.0300	102	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 351048,

Project ID:

Lab Batch #: 781159 **Sample:** 351048-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/10/09 18:12

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0271	0.0300	90	80-120	
4-Bromofluorobenzene	0.0307	0.0300	102	80-120	

Lab Batch #: 781159 **Sample:** 351048-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/10/09 18:34

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0273	0.0300	91	80-120	
4-Bromofluorobenzene	0.0319	0.0300	106	80-120	

Lab Batch #: 781159 **Sample:** 351048-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/11/09 00:34

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0290	0.0300	97	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	80-120	

Lab Batch #: 781159 **Sample:** 351048-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/11/09 00:55

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0330	0.0300	110	80-120	

Lab Batch #: 781088 **Sample:** 542708-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/10/09 01:11

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	51.0	50.0	102	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Version: 1.008

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 351048,

Project ID:

Lab Batch #: 781088 **Sample:** 542708-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/10/09 01:37

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	52.0	50.0	104	70-135	

Lab Batch #: 781088 **Sample:** 542708-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 11/10/09 02:03

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.8	100	88	70-135	
o-Terphenyl	54.2	50.0	108	70-135	

Lab Batch #: 781088 **Sample:** 351048-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/10/09 02:28

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.0	100	91	70-135	
o-Terphenyl	57.9	50.0	116	70-135	

Lab Batch #: 781088 **Sample:** 351048-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/10/09 02:55

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	87.7	100	88	70-135	
o-Terphenyl	55.4	50.0	111	70-135	

Lab Batch #: 781088 **Sample:** 351048-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/10/09 03:21

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.4	100	88	70-135	
o-Terphenyl	55.2	50.0	110	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 351048,

Project ID:

Lab Batch #: 781088 **Sample:** 351048-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/10/09 03:47

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.9	100	87	70-135	
o-Terphenyl	54.0	50.0	108	70-135	

Lab Batch #: 781088 **Sample:** 351048-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/10/09 05:30

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	111	100	111	70-135	
o-Terphenyl	52.2	50.0	104	70-135	

Lab Batch #: 781088 **Sample:** 351048-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 11/10/09 05:56

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	115	100	115	70-135	
o-Terphenyl	53.8	50.0	108	70-135	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Penasco Compressor Station

Work Order #: 351048 **Project ID:**

Lab Batch #: 780716 **Sample:** 780716-1-BKS **Matrix:** Solid

Date Analyzed: 11/06/2009 **Date Prepared:** 11/06/2009 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Anions in Soil By EPA 300.0 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	ND	10.0	11.0	110	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

Version: 1.008

XENCO Laboratories

BS / BSD Recoveries

Project Name: Penasco Compressor Station

Work Order #: 351048 **Project ID:**

Analyst: ASA **Date Prepared:** 11/10/2009 **Date Analyzed:** 11/10/2009

Lab Batch ID: 781159 **Sample:** 542848-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 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
Benzene	ND	0.1000	0.0969	97	0.1	0.0989	99	2	70-130	35	
Toluene	ND	0.1000	0.0971	97	0.1	0.0989	99	2	70-130	35	
Ethylbenzene	ND	0.1000	0.0962	96	0.1	0.0991	99	3	71-129	35	
m,p-Xylenes	ND	0.2000	0.2098	105	0.2	0.2164	108	3	70-135	35	
o-Xylene	ND	0.1000	0.1015	102	0.1	0.1049	105	3	71-133	35	

Analyst: ASA **Date Prepared:** 11/09/2009 **Date Analyzed:** 11/10/2009

Lab Batch ID: 781088 **Sample:** 542708-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW 8015B 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
C6-C10 Gasoline Range Hydrocarbons	ND	1000	949	95	1000	940	94	1	70-135	35	
C10-C28 Diesel Range Hydrocarbons	ND	1000	729	73	1000	951	95	26	70-135	35	

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

Version: 1.008

Form 3 - MS Recoveries

Project Name: Penasco Compressor Station

Work Order #: 351048
Lab Batch #: 780716
Project ID:
Date Analyzed: 11/06/2009
Date Prepared: 11/06/2009
Analyst: LATCOR
QC- Sample ID: 351048-003 S
Batch #: 1
Matrix: Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	15.5	122	148	109	75-125	

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

Version: 1.008

Certificate of Analysis Summary 355624

Agave Energy, Artesia, NM

Project Name: Penasco Compressor Station

Project Id:

Contact: Jennifer Knowlton

Project Location: Eddy County

Date Received in Lab: Tue Dec-15-09 10:30 am

Report Date: 21-DEC-09

Project Manager: Brent Barron, II

Analysis Requested	*Lab Id:*	355624-001		355624-002		355624-003		355624-004		355624-005		355624-006	
	Field Id:	GS/Comp-Surface NW		GS/Comp-001 NW		GS/Comp-Surface NE		GS/Comp-001 NE		GS/Comp-Surface SW		GS/Comp-001 SW	
	Depth:	4-4 In		1-1 ft		4-4 In		1-1 ft		4-4 In		1-1 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-10-09 13:35		Dec-10-09 13:45		Dec-10-09 14:03		Dec-10-09 14:11		Dec-10-09 14:28		Dec-10-09 14:34	
Anions in Soil By EPA 300.0	*Extracted:*												
	Analyzed:	Dec-16-09 08:38		Dec-16-09 08:38		Dec-16-09 08:38		Dec-16-09 08:38		Dec-16-09 08:38		Dec-16-09 08:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		119	8.40	97.3	8.40	103	8.40	103	8.40	118	8.40	53.4	4.20
BTEX by EPA 8021	*Extracted:*	Dec-19-09 12:00		Dec-19-09 12:00		Dec-19-09 12:00		Dec-19-09 12:00		Dec-19-09 12:00		Dec-19-09 12:00	
	Analyzed:	Dec-19-09 21:27		Dec-19-09 21:50		Dec-19-09 17:55		Dec-19-09 19:06		Dec-19-09 22:14		Dec-19-09 22:38	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		0.0075	0.0057	BRL	0.0058	BRL	0.0011	BRL	0.0011	BRL	0.0058	BRL	0.0114
Toluene		0.2035	0.0114	0.1979	0.0115	BRL	0.0023	0.0124	0.0023	0.3387	0.0117	0.1405	0.0228
Ethylbenzene		0.1651	0.0057	0.4970	0.0058	0.0085	0.0011	0.0394	0.0011	0.6881	0.0058	0.3408	0.0114
m,p-Xylenes		0.7673	0.0114	2.962	0.0115	0.0453	0.0023	0.2084	0.0023	2.539	0.0117	2.064	0.0228
o-Xylene		0.2700	0.0057	2.181	0.0058	0.0470	0.0011	0.1984	0.0011	2.020	0.0058	2.568	0.0114
Xylenes, Total		1.0373	0.0057	5.143	0.0058	0.0923	0.0011	0.4068	0.0011	4.559	0.0058	4.632	0.0114
Total BTEX		1.4134	0.0057	5.838	0.0058	0.1008	0.0011	0.4586	0.0011	5.586	0.0058	5.113	0.0114
Percent Moisture	*Extracted:*												
	Analyzed:	Dec-15-09 17:00		Dec-15-09 17:00		Dec-15-09 17:00		Dec-15-09 17:00		Dec-15-09 17:00		Dec-15-09 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		12.2	1.00	13.1	1.00	11.2	1.00	12.8	1.00	14.4	1.00	12.4	1.00
TPH by SW 8015B	*Extracted:*	Dec-15-09 14:00		Dec-15-09 14:00		Dec-15-09 14:00		Dec-15-09 14:00		Dec-15-09 14:00		Dec-15-09 14:00	
	Analyzed:	Dec-18-09 07:09		Dec-18-09 07:36		Dec-18-09 08:02		Dec-18-09 08:29		Dec-18-09 08:56		Dec-18-09 09:23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		280	17.1	374	17.3	219	16.9	360	17.1	331	17.5	336	17.1
C10-C28 Diesel Range Hydrocarbons		325	17.1	507	17.3	572	16.9	411	17.1	431	17.5	257	17.1
Total TPH		605	17.1	881	17.3	791	16.9	771	17.1	762	17.5	593	17.1

Brent Barron, II
Odessa Laboratory Manager

Form 3 - MS / MSD Recoveries

Project Name: Penasco Compressor Station

Work Order # : 351048 **Project ID:**

Lab Batch ID: 781159 **QC- Sample ID:** 351048-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/11/2009 **Date Prepared:** 11/10/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
Benzene	ND	0.1107	0.0517	47	0.1107	0.0586	53	12	70-130	35	X
Toluene	ND	0.1107	0.0544	49	0.1107	0.0619	56	13	70-130	35	X
Ethylbenzene	ND	0.1107	0.0540	49	0.1107	0.0619	56	13	71-129	35	X
m,p-Xylenes	ND	0.2214	0.1161	52	0.2214	0.1340	61	16	70-135	35	X
o-Xylene	ND	0.1107	0.0562	51	0.1107	0.0647	58	13	71-133	35	X

Lab Batch ID: 781088 **QC- Sample ID:** 351048-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 11/10/2009 **Date Prepared:** 11/09/2009 **Analyst:** ASA

Reporting Units: mg/kg

TPH by SW 8015B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
C6-C10 Gasoline Range Hydrocarbons	ND	1110	1070	96	1110	1090	98	2	70-135	35	
C10-C28 Diesel Range Hydrocarbons	ND	1110	999	90	1110	913	82	9	70-135	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

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

Sample Duplicate Recovery

Project Name: Penasco Compressor Station

Work Order #: 351048

Lab Batch #: 780716 **Project ID:**

Date Analyzed: 11/06/2009 **Date Prepared:** 11/06/2009 **Analyst:** LATCOR

QC- Sample ID: 351048-003 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions in Soil By EPA 300.0	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	15.5	16.4	6	20	

Lab Batch #: 780678

Date Analyzed: 11/05/2009 **Date Prepared:** 11/05/2009 **Analyst:** WRU

QC- Sample ID: 350993-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.40	5.24	3	20	

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

Version: 1.008

Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Jennifer Knowlton

Company Name: Agave Energy Company

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 505-748-1471 Fax No:

Sampler Signature:

Project Name: Penasco Compressor Station

Project #:

Project Loc: Eddy County

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

e-mail: jknowlton@yatespetroleum.com

(lab use only)
ORDER #: 351048

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	GS/Comp-001	6'	6'	11/2/2009	11:04 AM		1	X								S	X								X			X				X
02	GS/Comp-002	7'	7'	11/2/2009	11:28 AM		1	X								S	X								X			X				X
03	GS/Comp-003	7'	7'	11/2/2009	12:02 PM		1	X								S	X								X			X				X
04	GS/Comp-004	8'	8'	11/2/2009	12:02 PM		1	X								S	X								X			X				X

Special Instructions: **TPH: 8015B, BTEX: 8021B & Chlorides.** BTEX results in mg/kg. Thank you.

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Asher	11/04/09	3:53 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Fedex	Date	Time	Received by ELOT: Andrea Sam	Date 11.5.09	Time 9:45

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?		N
Labels on container(s)		N
Custody seals on container(s)		N
Custody seals on cooler(s)		N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL (FedEx) Lone Star

Temperature Upon Receipt: 5.0 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Agave Energy

Date/ Time: 11.5.09 9:45

Lab ID # : 35104B

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	5.6 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

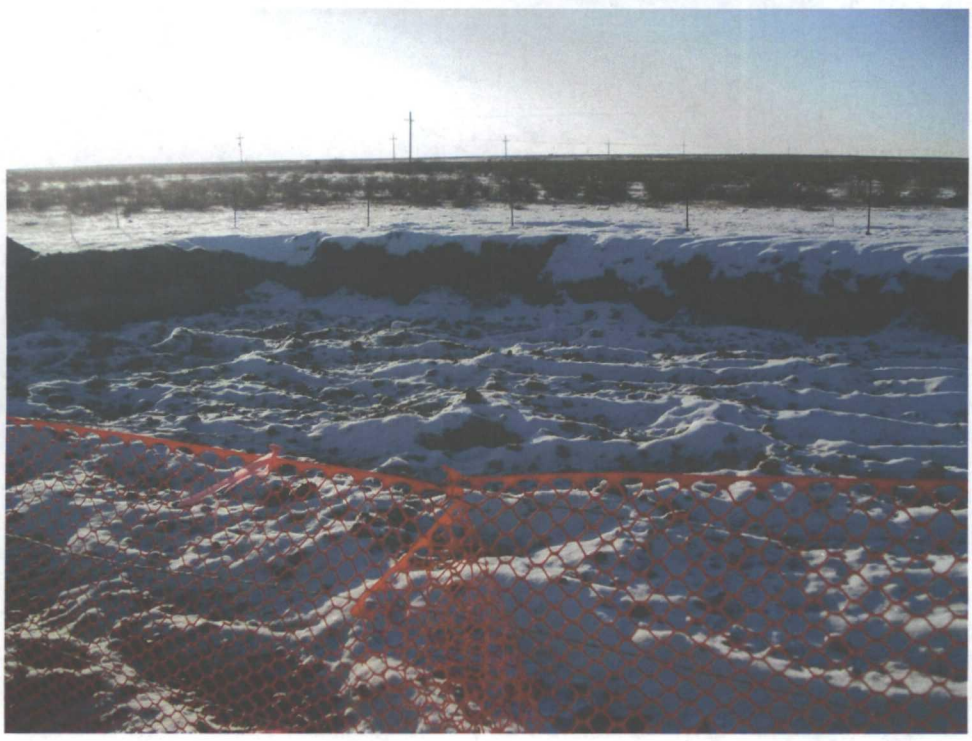
Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

PROJECT NAME	Pennsco Compressor Station		
FIELD CODE	GS/Comp-001	GS/Comp-002	GS/Comp-003
DATE	11/21/2009	"	"
TIME	1600 pm	1555 pm	2122 pm
SOIL TYPE			
SOIL COLOR			
SOIL ODOR			
SAMPLE TYPE	Grab/Auger	"	"
SAMPLE DEPTH	6'	6-7'	12'
LATITUDE			
LONGITUDE			
TEST TYPE			
COMMENTS	Excavation #1	"	Excavation #2
	West side of	"	East side of
	Station	"	Station
	Sidewall	Bottom	Sidewall
	Unit 25		Unit 005
FIELD CODE	GS/Comp-004		
DATE	11/21/2009		
TIME	2174 pm		
SOIL TYPE			
SOIL COLOR			
SOIL ODOR			
SAMPLE TYPE	Grab/Shovel		
SAMPLE DEPTH	13-14'		
LATITUDE			
LONGITUDE			
TEST TYPE			
COMMENTS	Excavation #2		
	East side of		
	Station		
	Bottom		

Penasco Compressor Station
December 30, 2009
South Tank Battery



Penasco Compressor Station
December 30, 2009
South Tank Battery

Analytical Report 355624

for

Agave Energy

Project Manager: Jennifer Knowlton

Penasco Compressor Station

21-DEC-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-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 (LAO00308), 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 (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

XENCO Laboratories

21-DEC-09

Project Manager: **Jennifer Knowlton**
Agave Energy
105 S. Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: **355624**
Penasco Compressor Station
Project Address: Eddy County

Jennifer Knowlton:

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 355624. 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. 355624 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

Sample Cross Reference 355624

Agave Energy, Artesia, NM

Penasco Compressor Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/Comp-Surface NW	S	Dec-10-09 13:35	4 - 4 In	355624-001
GS/Comp-001 NW	S	Dec-10-09 13:45	1 - 1 ft	355624-002
GS/Comp-Surface NE	S	Dec-10-09 14:03	4 - 4 In	355624-003
GS/Comp-001 NE	S	Dec-10-09 14:11	1 - 1 ft	355624-004
GS/Comp-Surface SW	S	Dec-10-09 14:28	4 - 4 In	355624-005
GS/Comp-001 SW	S	Dec-10-09 14:34	1 - 1 ft	355624-006
GS/Comp-Surface SE	S	Dec-10-09 14:51	4 - 4 In	355624-007
GS/Comp-001 SE	S	Dec-10-09 14:57	1 - 1 ft	355624-008

CASE NARRATIVE

XENCO Laboratories

Client Name: Agave Energy
Project Name: Penasco Compressor Station

Project ID:
Work Order Number: 355624

Report Date: 21-DEC-09
Date Received: 12/15/2009

Sample receipt non conformances and Comments:
None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-785886 Percent Moisture
None

Batch: LBA-785951 Inorganic Anions by EPA 300
None

Batch: LBA-786289 TPH by SW 8015B
SW8015B_NM

Batch 786289, C10-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 355624-007, -004, -003, -005, -008, -002, -001, -006.
The Laboratory Control Sample for C10-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

XENCO Laboratories

Client Name: Agave Energy
Project Name: Penasco Compressor Station

Project ID:
Work Order Number: 355624

Report Date: 21-DEC-09
Date Received: 12/15/2009

Batch: LBA-786459 BTEX by EPA 8021
SW8021BM

Batch 786459, m,p-Xylenes recovered below QC limits in the Matrix Spike. Benzene, Ethylbenzene, Toluene, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 355624-004, -003, -005, -002, -001, -006.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 786459, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 355624-005,355624-006,355624-002.
4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 355624-003,355624-004,355624-001,355624-006,355624-002,355624-005.
1,4-Difluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 355624-001.

Batch: LBA-786535 BTEX by EPA 8021
SW8021BM

Batch 786535, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Benzene, Ethylbenzene, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 355624-007, -008.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

SW8021BM

Batch 786535, Benzene, Ethylbenzene, m,p-Xylenes RPD was outside QC limits.
Samples affected are: 355624-007, -008

SW8021BM

Batch 786535, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 355624-008.
4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 355624-008,355624-007.
4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 355920-001 SD

Certificate of Analysis Summary 355624

Agave Energy, Artesia, NM

Project Name: Penasco Compressor Station

Project Id:

Contact: Jennifer Knowlton

Project Location: Eddy County

Date Received in Lab: Tue Dec-15-09 10:30 am

Report Date: 21-DEC-09

Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	355624-007				355624-008							
	Field Id:	GS/Comp-Surface SE				GS/Comp-001 SE							
	Depth:	4-4 In				1-1 ft							
	Matrix:	SOIL				SOIL							
	Sampled:	Dec-10-09 14:51				Dec-10-09 14:57							
Anions in Soil By EPA 300.0	***Extracted:***												
	Analyzed:	Dec-16-09 08:38				Dec-16-09 08:38							
	Units/RL:	mg/kg	RL			mg/kg	RL						
Chloride		87.3	8.40			85.5	8.40						
BTEX by EPA 8021	***Extracted:***	Dec-19-09 12:30				Dec-19-09 12:30							
	Analyzed:	Dec-20-09 04:54				Dec-20-09 05:17							
	Units/RL:	mg/kg	RL			mg/kg	RL						
Benzene		BRL	0.0117			BRL	0.0058						
Toluene		0.0528	0.0234			0.0377	0.0117						
Ethylbenzene		0.0343	0.0117			0.1643	0.0058						
m,p-Xylenes		0.2712	0.0234			0.9237	0.0117						
o-Xylene		0.2630	0.0117			1.015	0.0058						
Xylenes, Total		0.5342	0.0117			1.939	0.0058						
Total BTEX		0.6213	0.0117			2.141	0.0058						
Percent Moisture	***Extracted:***												
	Analyzed:	Dec-15-09 17:00				Dec-15-09 17:00							
	Units/RL:	%	RL			%	RL						
Percent Moisture		14.5	1.00			14.2	1.00						
TPH by SW 8015B	***Extracted:***	Dec-15-09 14:00				Dec-15-09 14:00							
	Analyzed:	Dec-18-09 09:50				Dec-18-09 10:18							
	Units/RL:	mg/kg	RL			mg/kg	RL						
C6-C10 Gasoline Range Hydrocarbons		316	17.5			310	17.5						
C10-C28 Diesel Range Hydrocarbons		385	17.5			95.0	17.5						
Total TPH		701	17.5			405	17.5						

Brent Barron, II
Odessa Laboratory Manager

XENCO Laboratories

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

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 355624, **Project ID:**

Lab Batch #: 786459 **Sample:** 545940-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/19/09 12:15

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0328	0.0300	109	80-120	
4-Bromofluorobenzene	0.0296	0.0300	99	80-120	

Lab Batch #: 786459 **Sample:** 545940-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/19/09 12:47

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0276	0.0300	92	80-120	

Lab Batch #: 786459 **Sample:** 545940-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/19/09 13:58

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0283	0.0300	94	80-120	
4-Bromofluorobenzene	0.0279	0.0300	93	80-120	

Lab Batch #: 786459 **Sample:** 355624-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/09 17:55

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0258	0.0300	86	80-120	
4-Bromofluorobenzene	0.0735	0.0300	245	80-120	**

Lab Batch #: 786459 **Sample:** 355624-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/09 19:06

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0246	0.0300	82	80-120	
4-Bromofluorobenzene	0.1628	0.0300	543	80-120	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 355624,

Project ID:

Lab Batch #: 786459 **Sample:** 355624-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/09 21:27

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0619	0.0300	206	80-120	**
4-Bromofluorobenzene	0.0769	0.0300	256	80-120	**

Lab Batch #: 786459 **Sample:** 355624-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/09 21:50

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0160	0.0300	53	80-120	**
4-Bromofluorobenzene	0.4778	0.0300	1593	80-120	**

Lab Batch #: 786459 **Sample:** 355624-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/09 22:14

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0177	0.0300	59	80-120	**
4-Bromofluorobenzene	0.4304	0.0300	1435	80-120	**

Lab Batch #: 786459 **Sample:** 355624-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/09 22:38

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0192	0.0300	64	80-120	**
4-Bromofluorobenzene	0.1494	0.0300	498	80-120	**

Lab Batch #: 786459 **Sample:** 355585-014 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/09 23:01

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0302	0.0300	101	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 355624, **Project ID:**

Lab Batch #: 786459 **Sample:** 355585-014 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/19/09 23:25

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0311	0.0300	104	80-120	
4-Bromofluorobenzene	0.0290	0.0300	97	80-120	

Lab Batch #: 786535 **Sample:** 545988-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/20/09 00:12

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 786535 **Sample:** 545988-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/20/09 00:35

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 786535 **Sample:** 545988-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/20/09 01:46

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 786535 **Sample:** 355624-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/20/09 04:54

BTEX by EPA 8021	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0243	0.0300	81	80-120	
4-Bromofluorobenzene	0.0588	0.0300	196	80-120	**

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 355624, **Project ID:**

Lab Batch #: 786535 **Sample:** 355624-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/20/09 05:17

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0222	0.0300	74	80-120	**
4-Bromofluorobenzene	0.1981	0.0300	660	80-120	**

Lab Batch #: 786535 **Sample:** 355920-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/20/09 06:04

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0332	0.0300	111	80-120	

Lab Batch #: 786535 **Sample:** 355920-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/20/09 06:28

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0382	0.0300	127	80-120	*

Lab Batch #: 786289 **Sample:** 545850-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/18/09 05:21

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	118	99.6	118	70-135	
o-Terphenyl	61.8	49.8	124	70-135	

Lab Batch #: 786289 **Sample:** 545850-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/18/09 05:48

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	99.5	121	70-135	
o-Terphenyl	57.7	49.8	116	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 355624,

Project ID:

Lab Batch #: 786289 **Sample:** 545850-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/18/09 06:15

SURROGATE RECOVERY STUDY					
TPH by SW 8015B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1-Chlorooctane	130	99.6	131	70-135	
o-Terphenyl	56.7	49.8	114	70-135	

Lab Batch #: 786289 **Sample:** 355624-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 07:09

SURROGATE RECOVERY STUDY					
TPH by SW 8015B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1-Chlorooctane	109	100	109	70-135	
o-Terphenyl	55.8	50.0	112	70-135	

Lab Batch #: 786289 **Sample:** 355624-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 07:36

SURROGATE RECOVERY STUDY					
TPH by SW 8015B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1-Chlorooctane	118	100	118	70-135	
o-Terphenyl	57.1	50.0	114	70-135	

Lab Batch #: 786289 **Sample:** 355624-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 08:02

SURROGATE RECOVERY STUDY					
TPH by SW 8015B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1-Chlorooctane	110	100	110	70-135	
o-Terphenyl	55.5	50.0	111	70-135	

Lab Batch #: 786289 **Sample:** 355624-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 08:29

SURROGATE RECOVERY STUDY					
TPH by SW 8015B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1-Chlorooctane	114	99.5	115	70-135	
o-Terphenyl	56.7	49.8	114	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 355624,

Project ID:

Lab Batch #: 786289 **Sample:** 355624-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 08:56

SURROGATE RECOVERY STUDY					
TPH by SW 8015B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1-Chlorooctane	108	100	108	70-135	
o-Terphenyl	53.6	50.0	107	70-135	

Lab Batch #: 786289 **Sample:** 355624-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 09:23

SURROGATE RECOVERY STUDY					
TPH by SW 8015B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1-Chlorooctane	116	99.9	116	70-135	
o-Terphenyl	57.2	50.0	114	70-135	

Lab Batch #: 786289 **Sample:** 355624-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 09:50

SURROGATE RECOVERY STUDY					
TPH by SW 8015B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1-Chlorooctane	115	99.8	115	70-135	
o-Terphenyl	57.8	49.9	116	70-135	

Lab Batch #: 786289 **Sample:** 355624-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 10:18

SURROGATE RECOVERY STUDY					
TPH by SW 8015B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1-Chlorooctane	112	100	112	70-135	
o-Terphenyl	56.4	50.0	113	70-135	

Lab Batch #: 786289 **Sample:** 355624-007 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 10:45

SURROGATE RECOVERY STUDY					
TPH by SW 8015B **Analytes**	**Amount Found [A]**	**True Amount [B]**	**Recovery %R [D]**	**Control Limits %R**	**Flags**
1-Chlorooctane	127	99.8	127	70-135	
o-Terphenyl	55.3	49.9	111	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 355624,

Project ID:

Lab Batch #: 786289 **Sample:** 355624-007 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/18/09 11:12

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	129	99.7	129	70-135	
o-Terphenyl	55.4	49.9	111	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Blank Spike Recovery

Project Name: Penasco Compressor Station

Work Order #: 355624 **Project ID:**

Lab Batch #: 785951 **Sample:** 785951-1-BKS **Matrix:** Solid

Date Analyzed: 12/16/2009 **Date Prepared:** 12/16/2009 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Anions in Soil By EPA 300.0 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	<0.420	10.0	10.6	106	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

XENCO Laboratories

BS / BSD Recoveries

Project Name: Penasco Compressor Station

Work Order #: 355624 **Project ID:**

Analyst: ASA **Date Prepared:** 12/19/2009 **Date Analyzed:** 12/19/2009

Lab Batch ID: 786459 **Sample:** 545940-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 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
Benzene	<0.0010	0.1000	0.1063	106	0.1	0.1014	101	5	70-130	35	
Toluene	<0.0020	0.1000	0.1084	108	0.1	0.1041	104	4	70-130	35	
Ethylbenzene	<0.0010	0.1000	0.1050	105	0.1	0.1022	102	3	71-129	35	
m,p-Xylenes	<0.0020	0.2000	0.2366	118	0.2	0.2283	114	4	70-135	35	
o-Xylene	<0.0010	0.1000	0.1164	116	0.1	0.1128	113	3	71-133	35	

Analyst: ASA **Date Prepared:** 12/19/2009 **Date Analyzed:** 12/20/2009

Lab Batch ID: 786535 **Sample:** 545988-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 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
Benzene	<0.0010	0.1000	0.1068	107	0.1	0.1146	115	7	70-130	35	
Toluene	<0.0020	0.1000	0.1101	110	0.1	0.1180	118	7	70-130	35	
Ethylbenzene	<0.0010	0.1000	0.1083	108	0.1	0.1168	117	8	71-129	35	
m,p-Xylenes	<0.0020	0.2000	0.2405	120	0.2	0.2596	130	8	70-135	35	
o-Xylene	<0.0010	0.1000	0.1173	117	0.1	0.1282	128	9	71-133	35	

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

XENCO Laboratories

BS / BSD Recoveries

ACCREDITED IN ACCORDANCE WITH nelac

Project Name: Penasco Compressor Station

Work Order #: 355624 **Project ID:**

Analyst: BEV **Date Prepared:** 12/15/2009 **Date Analyzed:** 12/18/2009

Lab Batch ID: 786289 **Sample:** 545850-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH by SW 8015B 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
C6-C10 Gasoline Range Hydrocarbons	<14.9	995	950	95	996	999	100	5	70-135	35	
C10-C28 Diesel Range Hydrocarbons	<14.9	995	710	71	996	875	88	21	70-135	35	

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

Form 3 - MS Recoveries

Project Name: Penasco Compressor Station

Work Order #: 355624
Lab Batch #: 785951
Project ID:
Date Analyzed: 12/16/2009
Date Prepared: 12/16/2009
Analyst: LATCOR
QC- Sample ID: 355590-008 S
Batch #: 1
Matrix: Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	55.5	112	172	104	75-125	

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

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: Penasco Compressor Station

ACCREDITED IN ACCORDANCE WITH nelac

Work Order # : 355624 **Project ID:**

Lab Batch ID: 786459 **QC- Sample ID:** 355585-014 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/19/2009 **Date Prepared:** 12/19/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.0012	0.1231	0.0624	51	0.1231	0.0800	65	25	70-130	35	X
Toluene	<0.0025	0.1231	0.0663	54	0.1231	0.0834	68	23	70-130	35	X
Ethylbenzene	<0.0012	0.1231	0.0651	53	0.1231	0.0798	65	20	71-129	35	X
m,p-Xylenes	<0.0025	0.2461	0.1468	60	0.2461	0.1770	72	19	70-135	35	X
o-Xylene	<0.0012	0.1231	0.0670	54	0.1231	0.0831	68	21	71-133	35	X

Lab Batch ID: 786535 **QC- Sample ID:** 355920-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/20/2009 **Date Prepared:** 12/19/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.0011	0.1082	0.0242	22	0.1082	0.0565	52	80	70-130	35	XF
Toluene	<0.0011	0.1082	0.0337	31	0.1082	0.0298	28	12	70-130	35	X
Ethylbenzene	<0.0011	0.1082	0.0066	6	0.1082	<0.0011	0	200	71-129	35	XF
m,p-Xylenes	<0.0022	0.2164	0.1049	48	0.2164	0.1614	75	42	70-135	35	XF
o-Xylene	<0.0011	0.1082	0.0593	55	0.1082	0.0812	75	31	71-133	35	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(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

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: Penasco Compressor Station

Work Order # : 355624 **Project ID:**

Lab Batch ID: 786289 **QC- Sample ID:** 355624-007 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/18/2009 **Date Prepared:** 12/15/2009 **Analyst:** BEV

Reporting Units: mg/kg

	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
TPH by SW 8015B **Analytes**	**Parent Sample Result [A]**	**Spike Added [B]**	**Spiked Sample Result [C]**	**Spiked Sample %R [D]**	**Spike Added [E]**	**Duplicate Spiked Sample Result [F]**	**Spiked Dup. %R [G]**	**RPD %**	**Control Limits %R**	**Control Limits %RPD**	**Flag**
C6-C10 Gasoline Range Hydrocarbons	316	1170	1340	88	1170	1180	74	13	70-135	35	
C10-C28 Diesel Range Hydrocarbons	385	1170	1120	63	1170	1130	64	1	70-135	35	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B

Matrix Spike Duplicate Percent Recovery [G] = 100*(F-A)/E

Relative Percent Difference RPD = 200*|(C-F)/(C+F)|

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

XENCO Laboratories

Sample Duplicate Recovery

Project Name: Penasco Compressor Station

Work Order #: 355624

Lab Batch #: 785951 **Project ID:**

Date Analyzed: 12/16/2009 **Date Prepared:** 12/16/2009 **Analyst:** LATCOR

QC- Sample ID: 355590-008 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions in Soil By EPA 300.0	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	55.5	56.7	2	20	

Lab Batch #: 785886

Date Analyzed: 12/15/2009 **Date Prepared:** 12/15/2009 **Analyst:** WRU

QC- Sample ID: 355590-007 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Analyte	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	10.5	11.4	9	20	

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

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Jennifer Knowlton
Company Name: Agave Energy Company
Company Address: 105 South 4th Street
City/State/Zip: Artesia, NM 88210
Telephone No: 505-748-1471 Fax No:
Sampler Signature:

Project Name: Penasco Compressor Station
Project #:
Project Loc: Eddy County
PO #:
Report Format: [x] Standard [ ] TRRP [ ] NPDES
e-mail: boba@yatespetroleum.com & jknowlton@yatespetroleum.com

(lab use only)
ORDER #: 355624

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO3	HCl	H2SO4	NaOH	Na2S2O3	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW = Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M	TOTAL: TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	GS/Comp-Surface NW	4"	4"	12/10/2009	1:35 PM		1	X								S	X								X			X				X
02	GS/Comp-001 NW	1'	1'	12/10/2009	1:45 PM		1	X								S	X								X			X				X
03	GS/Comp-Surface NE	4"	4"	12/10/2009	2:03 PM		1	X								S	X								X			X				X
04	GS/Comp-001 NE	1'	1'	12/10/2009	2:11 PM		1	X								S	X								X			X				X
05	GS/Comp-Surface SW	4"	4"	12/10/2009	2:28 PM		1	X								S	X								X			X				X
06	GS/Comp-001 SW	1'	1'	12/10/2009	2:34 PM		1	X								S	X								X			X				X
07	GS/Comp-Surface SE	4"	4"	12/10/2009	2:51 PM		1	X								S	X								X			X				X
08	GS/Comp-001 SE	1'	1'	12/10/2009	2:57 PM		1	X								S	X								X			X				X

Special Instructions: **TPH: 8015B, BTEX: 8021B & Chlorides.** BTEX results in mg/kg. Thank you.

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Asher Rush/pcc	12/14/09	2:36 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Fedex	Date	Time	Received by ELOT: Andrea Fenn	Date 12.15.09	Time 10:30

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?	Y	N
Labels on container(s)	Y	N
Custody seals on container(s)	Y	N
Custody seals on cooler(s)	Y	N
Sample Hand Delivered by Sampler/Client Rep. ?	Y	N

by Courier? UPS DHL FedEx Lone Star
402glass
Temperature Upon Receipt: 2.6 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Agave Energy

Date/ Time: 12.15.09 10:30

Lab ID # : 355624

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	2.6 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event

Penasco Compressor Station
December 30, 2009
Unit 023

Penasco Compressor Station
December 30, 2009
Unit 023

Penasco Compressor Station
December 30, 2009
Unit 023

Penasco Compressor Station
December 30, 2009
Unit 002

Penasco Compressor Station
December 30, 2009
Unit 002

Penasco Compressor Station
December 30, 2009
Unit 002

Analytical Report 356167

for

Agave Energy

Project Manager: Jennifer Knowlton

Penasco Compressor Station

29-DEC-09

12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):
Texas (T104704215-08-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 (LAO00308), 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 (T104704400-08-TX)
Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-08-TX)
Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370-08-TX)
Xenco-Boca Raton (EPA Lab Code: FL00449): Florida(E86240),
South Carolina(96031001), Louisiana(04154), Georgia(917)

29-DEC-09

Project Manager: **Jennifer Knowlton**
Agave Energy
105 S. Fourth St.
Artesia, NM 88210

Reference: XENCO Report No: **356167**
Penasco Compressor Station
Project Address: Eddy County

Jennifer Knowlton:

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 356167. 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. 356167 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

Sample Cross Reference 356167

Agave Energy, Artesia, NM

Penasco Compressor Station

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS/ Unit # 2 - Bottom	S	Dec-17-09 10:05	20 - 20 ft	356167-001
GS/ Unit # 2 - Sidewall	S	Dec-17-09 10:10	15 - 15 ft	356167-002
GS/ Unit # 23 - Bottom	S	Dec-17-09 10:15	15 - 15 ft	356167-003
GS/ Unit # 23 -010 Sidewall	S	Dec-17-09 10:20	10 - 10 ft	356167-004
GS/ Unit # 23 - 012 Sidewall	S	Dec-17-09 10:25	12 - 12 ft	356167-005

CASE NARRATIVE

XENCO Laboratories

Client Name: Agave Energy
Project Name: Penasco Compressor Station

Project ID:
Work Order Number: 356167

Report Date: 29-DEC-09
Date Received: 12/18/2009

Sample receipt non conformances and Comments:
None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-786482 Percent Moisture
None

Batch: LBA-786535 BTEX by EPA 8021
SW8021BM

Batch 786535, Benzene, Ethylbenzene, m,p-Xylenes RPD was outside QC limits.
Samples affected are: 356167-002, -004, -001

SW8021BM

Batch 786535, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 355920-001 SD.

SW8021BM

Batch 786535, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike. Benzene, Ethylbenzene, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 356167-002, -004, -001.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-786560 Inorganic Anions by EPA 300
None

CASE NARRATIVE

XENCO Laboratories

Client Name: Agave Energy
Project Name: Penasco Compressor Station

Project ID:
Work Order Number: 356167

Report Date: 29-DEC-09
Date Received: 12/18/2009

Batch: LBA-786873 BTEX by EPA 8021
SW8021BM

Batch 786873, Benzene, Ethylbenzene, Toluene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 356167-005, -003.
The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene is within laboratory Control Limits

SW8021BM

Batch 786873, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 356167-005,356167-003.

Batch: LBA-787268 TPH by SW 8015B
SW8015B_NM

Batch 787268, C10-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike.
Samples affected are: 356167-005, -002, -004, -001, -003.
The Laboratory Control Sample for C10-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

Certificate of Analysis Summary 356167

Agave Energy, Artesia, NM

Project Name: Penasco Compressor Station

Project Id:

Contact: Jennifer Knowlton

Project Location: Eddy County

Date Received in Lab: Fri Dec-18-09 10:30 am

Report Date: 29-DEC-09

Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	356167-001		356167-002		356167-003		356167-004		356167-005	
	Field Id:	GS/ Unit # 2 - Bottom		GS/ Unit # 2 - Sidewall		GS/ Unit # 23 - Bottom		GS/ Unit # 23 -010 Sidewall		GS/ Unit # 23 - 012 Sidewall	
	Depth:	20-20 ft		15-15 ft		15-15 ft		10-10 ft		12-12 ft	
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Dec-17-09 10:05		Dec-17-09 10:10		Dec-17-09 10:15		Dec-17-09 10:20		Dec-17-09 10:25	
Anions in Soil By EPA 300.0	***Extracted:***										
	Analyzed:	Dec-21-09 10:06		Dec-21-09 10:06		Dec-21-09 10:06		Dec-21-09 10:06		Dec-21-09 10:06	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		76.8	8.40	103	4.20	BRL	16.8	22.4	4.20	11.2	4.20
BTEX by EPA 8021	***Extracted:***	Dec-19-09 12:30		Dec-19-09 12:30		Dec-22-09 08:00		Dec-19-09 12:30		Dec-22-09 08:00	
	Analyzed:	Dec-20-09 02:56		Dec-20-09 03:20		Dec-22-09 14:52		Dec-20-09 03:43		Dec-22-09 21:33	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		BRL	0.0011	BRL	0.0011	0.1865	0.1166	BRL	0.0011	BRL	0.2765
Toluene		BRL	0.0022	BRL	0.0022	5.368	0.2331	BRL	0.0022	0.6911	0.5529
Ethylbenzene		BRL	0.0011	BRL	0.0011	2.397	0.1166	BRL	0.0011	0.4949	0.2765
m,p-Xylenes		0.0033	0.0022	BRL	0.0022	12.15	0.2331	0.0125	0.0022	6.781	0.5529
o-Xylene		0.0049	0.0011	BRL	0.0011	3.246	0.1166	0.0059	0.0011	1.924	0.2765
Xylenes, Total		0.0082	0.0011	BRL	0.0011	15.40	0.1166	0.0184	0.0011	8.705	0.2765
Total BTEX		0.0082	0.0011	BRL	0.0011	23.35	0.1166	0.0184	0.0011	9.891	0.2765
Percent Moisture	***Extracted:***										
	Analyzed:	Dec-19-09 09:15		Dec-19-09 09:15		Dec-19-09 09:15		Dec-19-09 09:15		Dec-19-09 09:15	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8.10	1.00	9.52	1.00	14.2	1.00	7.14	1.00	9.57	1.00
TPH by SW 8015B	***Extracted:***	Dec-21-09 16:00		Dec-21-09 16:00		Dec-21-09 16:00		Dec-21-09 16:00		Dec-21-09 16:00	
	Analyzed:	Dec-24-09 05:31		Dec-24-09 05:58		Dec-24-09 06:24		Dec-24-09 06:50		Dec-24-09 07:17	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C10 Gasoline Range Hydrocarbons		31.0	16.3	BRL	16.6	422	87.4	BRL	16.2	703	166
C10-C28 Diesel Range Hydrocarbons		163	16.3	21.0	16.6	1060	87.4	51.2	16.2	1530	166
Total TPH		194	16.3	21.0	16.6	1482	87.4	51.2	16.2	2233	166

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

* Outside XENCO's scope of NELAC Accreditation.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 356167, **Project ID:**

Lab Batch #: 786535 **Sample:** 545988-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/20/09 00:12

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0267	0.0300	89	80-120	

Lab Batch #: 786535 **Sample:** 545988-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/20/09 00:35

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0307	0.0300	102	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 786535 **Sample:** 545988-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/20/09 01:46

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0282	0.0300	94	80-120	

Lab Batch #: 786535 **Sample:** 356167-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/20/09 02:56

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0267	0.0300	89	80-120	
4-Bromofluorobenzene	0.0345	0.0300	115	80-120	

Lab Batch #: 786535 **Sample:** 356167-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/20/09 03:20

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0275	0.0300	92	80-120	
4-Bromofluorobenzene	0.0277	0.0300	92	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 356167, **Project ID:**

Lab Batch #: 786535 **Sample:** 356167-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/20/09 03:43

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0259	0.0300	86	80-120	
4-Bromofluorobenzene	0.0323	0.0300	108	80-120	

Lab Batch #: 786535 **Sample:** 355920-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/20/09 06:04

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0295	0.0300	98	80-120	
4-Bromofluorobenzene	0.0332	0.0300	111	80-120	

Lab Batch #: 786535 **Sample:** 355920-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/20/09 06:28

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0331	0.0300	110	80-120	
4-Bromofluorobenzene	0.0382	0.0300	127	80-120	*

Lab Batch #: 786873 **Sample:** 546198-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/22/09 10:25

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0314	0.0300	105	80-120	
4-Bromofluorobenzene	0.0301	0.0300	100	80-120	

Lab Batch #: 786873 **Sample:** 546198-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/22/09 10:49

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0308	0.0300	103	80-120	
4-Bromofluorobenzene	0.0284	0.0300	95	80-120	

* Surrogate outside of Laboratory QC limits
** Surrogates outside limits; data and surrogates confirmed by reanalysis
*** Poor recoveries due to dilution
Surrogate Recovery [D] = 100 * A / B
All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 356167,

Project ID:

Lab Batch #: 786873 **Sample:** 546198-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/22/09 12:00

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0263	0.0300	88	80-120	
4-Bromofluorobenzene	0.0283	0.0300	94	80-120	

Lab Batch #: 786873 **Sample:** 356167-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/22/09 14:52

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0167	0.0300	56	80-120	**
4-Bromofluorobenzene	0.0299	0.0300	100	80-120	

Lab Batch #: 786873 **Sample:** 356167-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/22/09 21:33

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0179	0.0300	60	80-120	**
4-Bromofluorobenzene	0.0275	0.0300	92	80-120	

Lab Batch #: 786873 **Sample:** 356372-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/22/09 21:56

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0293	0.0300	98	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 786873 **Sample:** 356372-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/22/09 22:20

BTEX by EPA 8021 Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0292	0.0300	97	80-120	
4-Bromofluorobenzene	0.0300	0.0300	100	80-120	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 356167,

Project ID:

Lab Batch #: 787268 **Sample:** 546403-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/24/09 03:45

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	121	100	121	70-135	
o-Terphenyl	54.4	50.2	108	70-135	

Lab Batch #: 787268 **Sample:** 546403-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/24/09 04:12

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	130	99.8	130	70-135	
o-Terphenyl	58.9	49.9	118	70-135	

Lab Batch #: 787268 **Sample:** 546403-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 12/24/09 04:38

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	120	101	119	70-135	
o-Terphenyl	67.3	50.3	134	70-135	

Lab Batch #: 787268 **Sample:** 356167-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/24/09 05:31

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.7	101	70-135	
o-Terphenyl	56.7	49.9	114	70-135	

Lab Batch #: 787268 **Sample:** 356167-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/24/09 05:58

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	106	100	106	70-135	
o-Terphenyl	59.9	50.0	120	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

XENCO Laboratories

Form 2 - Surrogate Recoveries

Project Name: Penasco Compressor Station

Work Orders : 356167,

Project ID:

Lab Batch #: 787268 **Sample:** 356167-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/24/09 06:24

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	60.8	50.0	122	70-135	

Lab Batch #: 787268 **Sample:** 356167-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/24/09 06:50

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	117	100	117	70-135	
o-Terphenyl	65.1	50.0	130	70-135	

Lab Batch #: 787268 **Sample:** 356167-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/24/09 07:17

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	114	100	114	70-135	
o-Terphenyl	63.8	50.0	128	70-135	

Lab Batch #: 787268 **Sample:** 356167-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/24/09 09:29

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	110	99.7	110	70-135	
o-Terphenyl	49.8	49.9	100	70-135	

Lab Batch #: 787268 **Sample:** 356167-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 12/24/09 09:55

TPH by SW 8015B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	100	105	70-135	
o-Terphenyl	47.9	50.0	96	70-135	

* Surrogate outside of Laboratory QC limits

** Surrogates outside limits; data and surrogates confirmed by reanalysis

*** Poor recoveries due to dilution

Surrogate Recovery [D] = 100 * A / B

All results are based on MDL and validated for QC purposes.

Blank Spike Recovery

Project Name: Penasco Compressor Station

Work Order #: 356167 **Project ID:**

Lab Batch #: 786560 **Sample:** 786560-1-BKS **Matrix:** Solid

Date Analyzed: 12/21/2009 **Date Prepared:** 12/21/2009 **Analyst:** LATCOR

Reporting Units: mg/kg **Batch #:** 1

	BLANK /BLANK SPIKE RECOVERY STUDY					
Anions in Soil By EPA 300.0 **Analytes**	**Blank Result [A]**	**Spike Added [B]**	**Blank Spike Result [C]**	**Blank Spike %R [D]**	**Control Limits %R**	**Flags**
Chloride	<0.420	10.0	10.0	100	75-125	

Blank Spike Recovery [D] = 100*[C]/[B]
All results are based on MDL and validated for QC purposes.
BRL - Below Reporting Limit

XENCO Laboratories

BS / BSD Recoveries

Project Name: Penasco Compressor Station

Work Order #: 356167 **Project ID:**

Analyst: ASA **Date Prepared:** 12/19/2009 **Date Analyzed:** 12/20/2009

Lab Batch ID: 786535 **Sample:** 545988-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 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
Benzene	<0.0010	0.1000	0.1068	107	0.1	0.1146	115	7	70-130	35	
Toluene	<0.0020	0.1000	0.1101	110	0.1	0.1180	118	7	70-130	35	
Ethylbenzene	<0.0010	0.1000	0.1083	108	0.1	0.1168	117	8	71-129	35	
m,p-Xylenes	<0.0020	0.2000	0.2405	120	0.2	0.2596	130	8	70-135	35	
o-Xylene	<0.0010	0.1000	0.1173	117	0.1	0.1282	128	9	71-133	35	

Analyst: ASA **Date Prepared:** 12/22/2009 **Date Analyzed:** 12/22/2009

Lab Batch ID: 786873 **Sample:** 546198-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021 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
Benzene	<0.0010	0.1000	0.1090	109	0.1	0.1002	100	8	70-130	35	
Toluene	<0.0020	0.1000	0.1123	112	0.1	0.1035	104	8	70-130	35	
Ethylbenzene	<0.0010	0.1000	0.1121	112	0.1	0.1029	103	9	71-129	35	
m,p-Xylenes	<0.0020	0.2000	0.2442	122	0.2	0.2240	112	9	70-135	35	
o-Xylene	<0.0010	0.1000	0.1220	122	0.1	0.1116	112	9	71-133	35	

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

XENCO Laboratories

Form 3 - MS Recoveries

Project Name: Penasco Compressor Station

Work Order #: 356167
Lab Batch #: 786560
Project ID:
Date Analyzed: 12/21/2009
Date Prepared: 12/21/2009
Analyst: LATCOR
QC- Sample ID: 356111-035 S
Batch #: 1
Matrix: Soil
Reporting Units: mg/kg

Inorganic Anions by EPA 300	MATRIX / MATRIX SPIKE RECOVERY STUDY					
Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	10.0	151	156	97	75-125	

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

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: Penasco Compressor Station

Work Order # : 356167 **Project ID:**

Lab Batch ID: 786535 **QC- Sample ID:** 355920-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/20/2009 **Date Prepared:** 12/19/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.0011	0.1082	0.0242	22	0.1082	0.0565	52	80	70-130	35	XF
Toluene	<0.0011	0.1082	0.0337	31	0.1082	0.0298	28	12	70-130	35	X
Ethylbenzene	<0.0011	0.1082	0.0066	6	0.1082	<0.0011	0	200	71-129	35	XF
m,p-Xylenes	<0.0022	0.2164	0.1049	48	0.2164	0.1614	75	42	70-135	35	XF
o-Xylene	<0.0011	0.1082	0.0593	55	0.1082	0.0812	75	31	71-133	35	X

Lab Batch ID: 786873 **QC- Sample ID:** 356372-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/22/2009 **Date Prepared:** 12/22/2009 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021 Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.0011	0.1057	0.0664	63	0.1057	0.0689	65	4	70-130	35	X
Toluene	<0.0021	0.1057	0.0693	66	0.1057	0.0721	68	4	70-130	35	X
Ethylbenzene	<0.0011	0.1057	0.0684	65	0.1057	0.0724	68	6	71-129	35	X
m,p-Xylenes	<0.0021	0.2115	0.1500	71	0.2115	0.1575	74	5	70-135	35	
o-Xylene	<0.0011	0.1057	0.0746	71	0.1057	0.0772	73	3	71-133	35	

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(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

XENCO Laboratories

Form 3 - MS / MSD Recoveries

Project Name: Penasco Compressor Station

ACCREDITED IN ACCORDANCE WITH nelac

Work Order # : 356167 **Project ID:**

Lab Batch ID: 787268 **QC- Sample ID:** 356167-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 12/24/2009 **Date Prepared:** 12/21/2009 **Analyst:** BEV

Reporting Units: mg/kg

TPH by SW 8015B Analytes	MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY										
	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
C6-C10 Gasoline Range Hydrocarbons	31.0	1080	1050	94	1090	1020	91	3	70-135	35	
C10-C28 Diesel Range Hydrocarbons	163	1080	777	57	1090	983	75	23	70-135	35	X

Matrix Spike Percent Recovery [D] = 100*(C-A)/B
Relative Percent Difference RPD = 200*|(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

XENCO Laboratories

Sample Duplicate Recovery

Project Name: Penasco Compressor Station

Work Order #: 356167

Lab Batch #: 786560 **Project ID:**

Date Analyzed: 12/21/2009 **Date Prepared:** 12/21/2009 **Analyst:** LATCOR

QC- Sample ID: 356111-035 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Anions in Soil By EPA 300.0 **Analyte**	**Parent Sample Result [A]**	**Sample Duplicate Result [B]**	**RPD**	**Control Limits %RPD**	**Flag**
Chloride	10.0	10.1	1	20	

Lab Batch #: 786482

Date Analyzed: 12/19/2009 **Date Prepared:** 12/19/2009 **Analyst:** JLG

QC- Sample ID: 356164-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

	SAMPLE / SAMPLE DUPLICATE RECOVERY				
Percent Moisture **Analyte**	**Parent Sample Result [A]**	**Sample Duplicate Result [B]**	**RPD**	**Control Limits %RPD**	**Flag**
Percent Moisture	8.80	8.84	0	20	

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

XENCO-Environmental Lab of Texas

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East
Odessa, Texas 79765

Phone: 432-563-1800
Fax: 432-563-1713

Project Manager: Jennifer Knowlton

Company Name: Agave Energy Company

Company Address: 105 South 4th Street

City/State/Zip: Artesia, NM 88210

Telephone No: 505-748-1471 Fax No:

Sampler Signature:

Project Name: Penasco Compressor Station

Project #:

Project Loc: Eddy County

PO #:

Report Format: [X] Standard [ ] TRRP [ ] NPDES

e-mail: boba@yatespetroleum.com & jknowlton@yatespetroleum.com

(lab use only)
ORDER #: 356167

LAB # (lab use only)	FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers: Ice	HNO_3	HCl	H_2SO_4	NaOH	$Na_2S_2O_3$	None	Other (Specify)	Matrix: DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid NP=Non-Potable Specify Other	Analyze For: TCLP: TPH: 418.1 8015M TPH: TX 1005 TX 1006	TOTAL: 8015B	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	Chlorides			RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	GS/Unit #2 - Bottom	20'	20'	12/17/2009	10:05 AM		1	X								S	X								X			X				X
02	GS/Unit #2 - Sidewall	15'	15'	12/17/2009	10:10 AM		1	X								S	X								X			X				X
03	GS/Unit #23 - Bottom	15'	15'	12/17/2009	10:15 AM		1	X								S	X								X			X				X
04	GS/Unit #23 - 010 Sidewall	10'	10'	12/17/2009	10:20 AM		1	X								S	X								X			X				X
05	GS/Unit #23 - 012 Sidewall	12'	12'	12/17/2009	10:25 AM		1	X								S	X								X			X				X

Special Instructions: **TPH: 8015B, BTEX: 8021B & Chlorides.** BTEX results in mg/kg. Thank you.

Relinquished by:	Date	Time	Received by:	Date	Time
Robert Asher	12/17/09	3:26 PM			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by: Fedex	Date	Time	Received by ELOT: Andrea Fam	12.18.09	10:30

Laboratory Comments:

Sample Containers Intact?	Y	N
VOCs Free of Headspace?		N
Labels on container(s)		N
Custody seals on container(s)		N
Custody seals on cooler(s)		N
Sample Hand Delivered	Y	N
by Sampler/Client Rep. ?		N

by Courier? UPS DHL (FedEx) Lone Star

4029155

Temperature Upon Receipt: 4.6 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: Agave Energy

Date/ Time: 12.18.09 10.30

Lab ID # : 356167

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	4.6 °C	
#2	Shipping container in good condition?	(Yes)	No		
#3	Custody Seals intact on shipping container/ cooler?	(Yes)	No	Not Present	
#4	Custody Seals intact on sample bottles/ container?	(Yes)	No	Not Present	
#5	Chain of Custody present?	(Yes)	No		
#6	Sample Instructions complete of Chain of Custody?	(Yes)	No		
#7	Chain of Custody signed when relinquished/ received?	(Yes)	No		
#8	Chain of Custody agrees with sample label(s)?	(Yes)	No	ID written on Cont./ Lid	
#9	Container label(s) legible and intact?	(Yes)	No	Not Applicable	
#10	Sample matrix/ properties agree with Chain of Custody?	(Yes)	No		
#11	Containers supplied by ELOT?	(Yes)	No		
#12	Samples in proper container/ bottle?	(Yes)	No	See Below	
#13	Samples properly preserved?	(Yes)	No	See Below	
#14	Sample bottles intact?	(Yes)	No		
#15	Preservations documented on Chain of Custody?	(Yes)	No		
#16	Containers documented on Chain of Custody?	(Yes)	No		
#17	Sufficient sample amount for indicated test(s)?	(Yes)	No	See Below	
#18	All samples received within sufficient hold time?	(Yes)	No	See Below	
#19	Subcontract of sample(s)?	Yes	No	(Not Applicable)	
#20	VOC samples have zero headspace?	(Yes)	No	Not Applicable	

Variance Documentation

Contact: _____ Contacted by: _____ Date/ Time: _____

Regarding: _____

Corrective Action Taken:

Check all that Apply:

- ☐ See attached e-mail/ fax
- ☐ Client understands and would like to proceed with analysis
- ☐ Cooling process had begun shortly after sampling event