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Effective Solutions

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NMOCD ARTESIA

REMEDIATION SUMMARY

AND

SITE CLOSURE PROPOSAL

GP II Energy, Inc. (8359)
Federal Littlefield "BO" Tank Battery
Eddy County, New Mexico
UNIT "A" (NE/NE), Section 34, Township 26 South, Range 29 East
Latitude 32° 00' 12.10" North, Longitude 103° 57' 59.06" West

Prepared For:

GP II Energy, Inc.
P.O. Box 50682
Midland, Texas 79710

Prepared By:
Basin Environmental Consulting, LLC
2800 Plains Highway
Lovington, New Mexico 88260

February 2010

Curt Stanley
Project Manager

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INTRODUCTION AND BACKGROUND INFORMATION

Basin Environmental Consulting, LLC (Basin), on behalf of GP II Energy, Inc. (GP II), has prepared this Remediation Summary and Site Closure Proposal for the release site known as Federal Littlefield "BO" Tank Battery. The legal description of the release site is Unit Letter "A" (NE ¼ NE ¼), Section 34, Township 26 South, Range 29 East, in Eddy County, New Mexico. The property affected by the release is owned by the United States Bureau of Land Management (BLM). The release site GPS coordinates are 32° 00' 12.10" North and 103° 57' 59.06" West. Please reference Figure 1 for a Site Location Map and Figure 2 for a Site and Sample Location Map. Photographs are provided as Appendix A. The Release Notification and Corrective Action (Form C-141) is provided as Appendix C.

Prior to December 11, 2009, The BLM notified GP II of a release at the Federal Littlefield "BO" tank battery. The BLM indicated the release was reported by a New Mexico Oil Conservation Division (NMOCD) inspector. The release occurred following the "workover" of the Federal "BO" #6 well, which resulted in a production surge at a storage tank and the subsequent overflow of the storage tank. The release affected areas within the bermed secondary containment, ultimately compromising the containment wall and flowing along the north and/or south margins of an Eddy County road. Flowing generally west, the release continued along a "two-track" road in a pipeline right-of-way. On December 11, 2009, GP II submitted a Form C-141 to the NMOCD – Artesia District Office, indicating approximately ninety-two (92) barrels of produced oil was released, with approximately twenty (20) barrels recovered during the initial response activities, resulting in a net loss of approximately seventy-two (72) barrels of produced oil.

NMOCD SITE CLASSIFICATION

According to data obtained from the New Mexico Office of the State Engineer (NMOSE), no water wells are recorded in Section 34 of the above referenced township. The NMOSE data indicates the nearest water well was recorded approximately one mile to the northeast of the release. The data indicates water in this well was encountered at approximately eighty-five (85) feet below ground surface (bgs). According to a depth to groundwater reference map utilized by the NMOCD, groundwater should be encountered at less than one hundred (100) feet bgs. This depth to groundwater results in a score of ten (10) being assigned to the site based on the NMOCD depth to groundwater criteria.

The water well database, maintained by the NMOSE, indicated there are no water wells less than 1,000 feet from the release, resulting in zero (0) points being assigned to this site as a result of this criteria.

The bank of Pecos River is located less than one-thousand (1,000) feet from the most western extent of the release. Based on the NMOCD ranking system ten (10) points will be assigned to the site as a result of the criteria.

The *Guidelines for Remediation of Leaks, Spills and Releases* (NMOCD, 1993) indicates the Federal Littlefield "BO" Tank Battery release site has a ranking score of twenty (20). Based on this score, the soil remediation levels for a site with a ranking score of twenty (20) points are as follows:

- Benzene – 10 mg/Kg (ppm)
- BTEX – 50 mg/Kg (ppm)
- TPH – 100 mg/Kg (ppm)

NMOCD chloride cleanup levels are site specific and are generally set at 250 mg/Kg.

SUMMARY OF FIELD ACTIVITIES

Following the discovery of the release, crude oil saturated soil was removed from the release flow paths, stockpiled on-site and transported off-site.

On January 5, 2010, a backhoe was utilized to begin vertical delineation of the release site. Soil samples were collected at selected intervals and submitted to the laboratory for determination of benzene, toluene, ethylbenzene and xylene (BTEX) using EPA Method 8021b, total petroleum hydrocarbons (TPH) using Method SW846-8015M, and chloride using EPA Method 300.0. Along the western flowpath twelve (12) soil samples (SP-1 through SP-9, SP-5A, SP-6A and SP-8A) were collected from the north and/or south margins of Eddy County road. The analytical results indicated benzene concentrations were less than the appropriate laboratory method detection limit (MDL) in all twelve soil samples. BTEX concentrations ranged from less than the appropriate laboratory MDL in soil samples SP-2, SP-4, SP-5A, SP-7, SP-8, SP-8A, and SP-9 to 0.1375 mg/Kg in soil sample SP-5. TPH concentrations ranged from 137 mg/Kg in soil sample SP-2 to 1,249 mg/Kg in soil sample SP-6. Chloride concentrations ranged from 15.5 mg/Kg in soil sample SP-9 to 2,280 mg/Kg in soil sample SP-5. A summary of Concentrations of BTEX, TPH and Chloride in Soil is provided as Table 1. Laboratory analytical reports are provided as Appendix B.

Following the collection of soil samples along the Eddy County road, nine (9) soil samples (SP-10 through SP-16, SP-10A, and SP-12A) were collected along the "two-track" flowpath. Soil sample SP-16 was collected approximately forty (40) feet west of the most western extent of impact and will be used as a background sample. The analytical results indicated benzene concentrations were less than the appropriate laboratory MDL in all nine soil samples. BTEX concentrations ranged from less than the appropriate laboratory MDL in soil samples SP-11, SP-15 and SP-16 to 0.0619 mg/Kg in soil sample SP-10. TPH concentrations ranged from less than the laboratory MDL of 16.0 mg/Kg in soil sample SP-16 to 944 mg/Kg in soil sample SP-12. Chloride concentrations ranged from 79 mg/Kg in soil sample SP-13 to 1,300 mg/Kg in soil sample SP-10.

Following the collection of soil samples along the "two-track" road, two (2) soil samples (SP-17 and SP-18) were collected along a southern release flowpath off of the Eddy County road. The analytical results indicated benzene concentrations were less than the appropriate laboratory MDL in both soil samples. BTEX concentrations were 0.1603 mg/Kg and 0.0044 mg/Kg for soil samples SP-17 and SP-18, respectively. TPH concentrations were 136.5 mg/Kg and 103.1 mg/Kg for soil samples SP-17 and SP-18, respectively. Chloride concentrations were 70.5 mg/Kg and 607 mg/Kg for soil samples SP-17 and SP-18, respectively.

Soil samples SP-19 and SP-19A were collected outside of the secondary containment berm, north of the storage tanks. The analytical results indicated benzene concentrations were less than the laboratory MDL in soil sample SP-19A and 0.2386 mg/Kg in soil sample SP-19. BTEX concentrations were 7.53 mg/Kg and 0.006 mg/Kg for soil samples SP-19 and SP-19A, respectively. TPH concentrations were 1,474 mg/Kg and 18.3 mg/Kg for soil samples SP-19 and SP-19A, respectively. Chloride concentrations were 131 mg/Kg and less than the laboratory MDL of 17.7 mg/Kg for soil samples SP-19 and SP-19A, respectively.

Soil sample SP-20 was collected from the southeast side of the tank battery pad, in an area utilized for stockpiling impacted soil. The analytical results indicated the benzene, BTEX, TPH and chloride concentrations were less than the appropriate laboratory MDL.

Soil sample SP-21 was collected from a depression located northeast of the tank battery pad in an area utilized for stockpiling impacted soil. The analytical results indicated the benzene and BTEX concentrations were 0.0013 mg/Kg, the TPH concentration was 385 mg/Kg and chloride concentration was 650 mg/Kg.

SITE CLOSURE PROPOSAL

Based on the analytical results, GP II proposes the following activities designed to progress the Federal Littlefield "BO" Tank Battery release site toward an NMOCD and BLM approved closure:

- GP II proposes to excavate impacted soil from the areas identified above. Excavated soil will be stockpiled adjacent to the excavation(s) on a poly liner to minimize leaching of contaminants to the unaffected soils. A five (5) point composite soil sample will be collected from each 500 cubic yards of stockpiled soil. The soil samples will be submitted to the laboratory and analyzed for concentrations of BTEX using EPA method 8021b, TPH using SW-846 8015M and chloride using EPA 300.1. Provided the analytical results indicate the TPH concentration of the soil sample is less than 100 mg/Kg, the benzene concentration is less than 10 mg/Kg, the BTEX concentration is less than 50 mg/Kg, and the chloride concentration is less than 250 mg/Kg the corresponding soil stockpile will be used as backfill material. If the analytical results indicate a soil sample exhibits a chloride concentration greater than 250 mg/Kg, the corresponding soil stockpile will be transported to an NMOCD approved landfill. If the analytical results indicate a soil sample exhibits benzene, BTEX or TPH concentrations in excess of the NMOCD regulatory standard and a chloride concentration less than 250 mg/Kg, the corresponding stockpile will be blended, resampled and evaluated for potential use as backfill material.

- Confirmation excavation sidewall and floor soil samples will be collected at every one-hundred foot interval or as directed by the NMOCD and submitted to the laboratory for BTEX, TPH and chloride analysis. On receipt of favorable analytical results, GP II will request NMOCD approval to backfill the excavation(s) with locally purchased non-impacted soil. GP II will backfill the excavation, placing the backfill material in the excavation in twelve (12) inch lifts. Each lift will be properly compacted to minimize any settling of the soil. Following the backfill activities, non-impacted caliche will be purchased from an off-site source and the Eddy County road will be repaired and any areas disturbed by remediation activities will be reseeded to BLM specifications. The Eddy County Road Department will be contacted and approval will be secured prior to beginning the activities proposed in this workplan.

REPORTING

On completion of the proposed site closure activities, GP II Energy will submit a Remediation Summary and Site Closure Request for NMOCD and BLM approval.

LIMITATIONS

Basin Environmental Consulting, LLC has prepared this Remediation Summary and Site Closure Proposal to the best of its ability. No other warranty, expressed or implied, is made or intended.

Basin Environmental Consulting, LLC has examined and relied upon documents referenced in the report and has relied on oral statements made by certain individuals. Basin Environmental Consulting, LLC has not conducted an independent examination of the facts contained in referenced materials and statements. We have presumed the genuineness of the documents and that the information provided in documents or statements is true and accurate. Basin Environmental Consulting, LLC has prepared this report, in a professional manner, using the degree of skill and care exercised by similar environmental consultants. Basin Environmental Consulting, LLC also notes that the facts and conditions referenced in this report may change over time and the conclusions and recommendations set forth herein are applicable only to the facts and conditions as described at the time of this report.

This report has been prepared for the benefit of GP II Energy, Inc. The information contained in this report, including all exhibits and attachments, may not be used by any other party without the express consent of Basin Environmental Consulting, LLC and/or GP II Energy, Inc.

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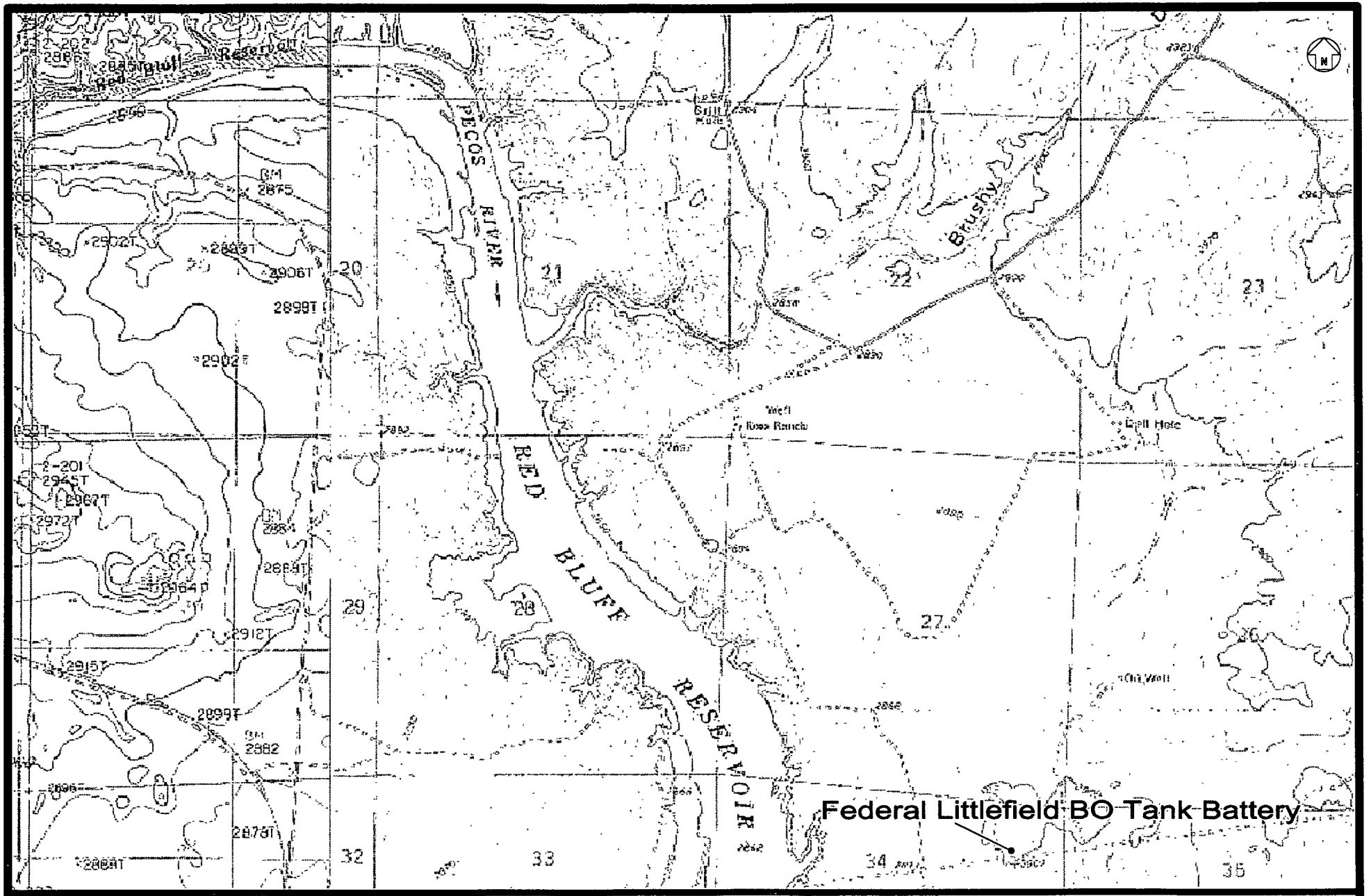
Figures



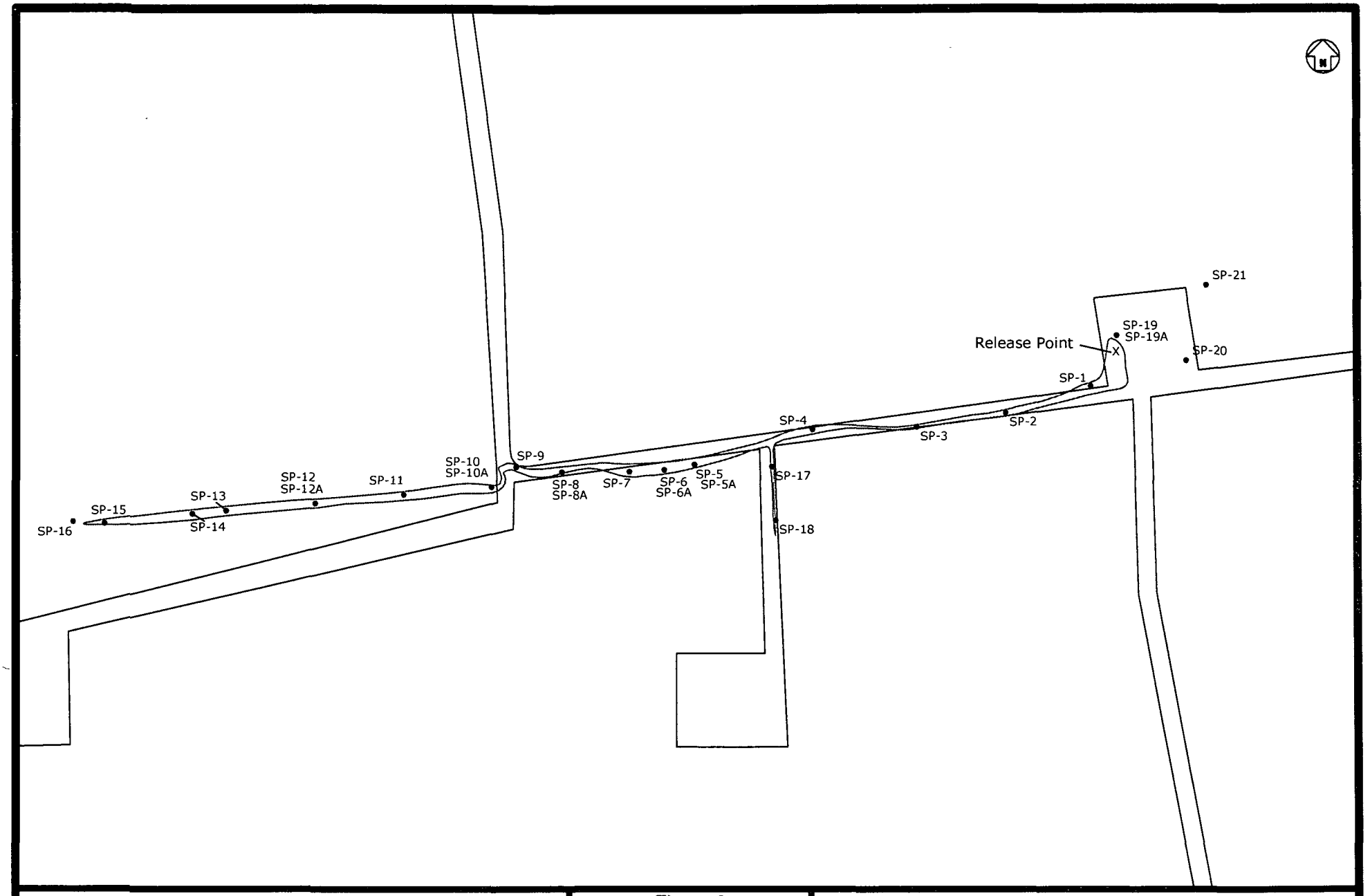
2000 1000 0 1000 2000

Distance in Feet

Figure 1
Site Location Map
Federal Littlefield BO Tank Battery
GP II Energy
Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS	Checked By: CDS
January 27, 2010	Scale 1"=2000'



Legend:

Surface Stain Extent

Sample Point

300 150 0 150 300

Approximate Distance in Feet

Figure 2
Site Map
GP II Energy
Federal Littlefield "BO"
Tank Battery
Eddy County, New Mexico

Basin Environmental Consulting

Prep By: CDS	Checked By: CDS
January 27, 2010	Scale: Approximately 1"=300'

Tables

Table 1

Concentrations of Benzene, BTEX, TPH and Chloride in Soil
GP II Energy, Inc.
Federal Littlefield "BO" Tank Battery
Eddy County, New Mexico

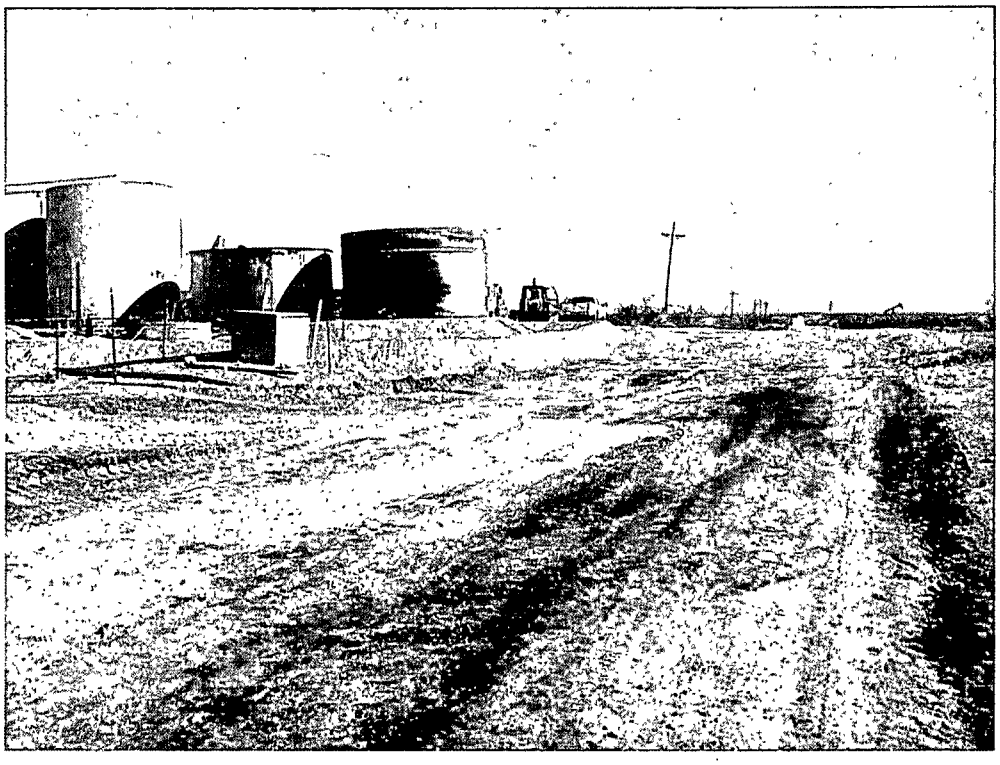
All measurments recorded in mg/Kg

SAMPLE DATE	SAMPLE LOCATION	DEPTH	SOIL STATUS	Methods: EPA SW 846-8021B, 5030							SW 846-8015 M				EPA 300
				BENZENE (mg/Kg)	TOLUENE mg/Kg	ETHYL-BENZENE (mg/Kg)	m,p-XYLENE (mg/Kg)	o-XYLENE (mg/Kg)	TOTAL XYLENE (mg/Kg)	TOTAL BTEX (mg/Kg)	GRO C_6-C_{12} (mg/Kg)	DRO C_{12}-C_{28} (mg/Kg)	ORO C_{28}-C_{35} (mg/Kg)	TOTAL TPH C_6-C_{35} (mg/Kg)	Chloride (mg/Kg)
01/05/10	SP-1	1 foot bgs	In-Situ	<0.0012	<0.0025	0.0038	0.0098	0.0055	0.0153	0.0191	39	278	29	**346**	**548**
01/05/10	SP-2	1 foot bgs	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0011	<0.0022	<16.7	137	<16.7	**137**	**568**
01/05/10	SP-3	18 inches bgs	In-Situ	<0.0012	<0.0024	<0.0012	0.003	<0.0012	0.003	0.003	26	137	<17.7	**163**	**2,240**
01/05/10	SP-4	18 inches bgs	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0011	<0.0023	116	414	47.9	**578**	229
01/05/10	SP-5	18 inches bgs	In-Situ	<0.0011	0.0105	0.0293	0.0885	0.0092	0.0977	0.1375	185	602	<16.9	**787**	**2,280**
01/05/10	SP-5A	3 feet bgs	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0011	<0.0022	81	149	31.1	**261**	**1,850**
01/05/10	SP-6	18 inches bgs	In-Situ	<0.0011	0.0071	0.011	0.0244	0.0202	0.0446	0.0627	218	910	121	**1,249**	**561**
01/05/10	SP-6A	3.5 feet bgs	In-Situ	<0.0011	<0.0023	0.0037	0.0072	0.006	0.0132	0.0169	240	470	22.1	**732**	**829**
01/05/10	SP-7	18 inches bgs	In-Situ	<0.0011	<0.0022	<0.0011	<0.0022	<0.0011	<0.0011	<0.0022	229	262	29.6	**521**	**1,480**
01/05/10	SP-8	3 feet bgs	In-Situ	<0.0011	<0.0023	<0.0011	<0.0023	<0.0011	<0.0011	<0.0023	238	496	24.2	**758**	**1,060**
01/05/10	SP-8A	4 feet bgs	In-Situ	<0.0013	<0.0026	<0.0013	<0.0026	<0.0011	<0.0013	<0.0026	45.1	303	22.1	**370**	**1,320**
01/05/10	SP-9	1 foot bgs	In-Situ	<0.0013	<0.0027	<0.0013	<0.0027	<0.0013	<0.0013	<0.0027	44.3	334	<19.9	**378**	15.5
01/05/10	SP-10	2 feet bgs	In-Situ	<0.0011	0.0023	0.0168	0.0523	0.0096	0.0619	0.081	279	519	29.3	**827**	**1,300**
01/05/10	SP-10A	3.5 feet bgs	In-Situ	<0.0011	<0.0022	0.0011	0.0035	<0.0011	0.0035	0.0046	208	324	19.5	**552**	**935**
01/05/10	SP-11	3 feet bgs	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0011	<0.0021	139	238	28.3	**405**	98.5
01/05/10	SP-12	2 feet bgs	In-Situ	<0.0011	<0.0022	0.0078	0.0281	0.0108	0.0389	0.0467	269	653	22.1	**944**	**473**
01/05/10	SP-12A	3 feet bgs	In-Situ	<0.0011	<0.0021	0.0024	0.0083	0.0022	0.0105	0.0129	40.2	106	<16.1	**146**	**275**
01/05/10	SP-13	2.5 feet bgs	In-Situ	<0.0011	<0.0022	<0.0011	0.0024	<0.0011	0.0024	0.0024	38.9	495	24.9	**559**	79
01/05/10	SP-14	2 feet bgs	In-Situ	<0.0011	0.0028	0.0084	0.0281	0.0084	0.0365	0.0477	134	270	20.6	**425**	**257**
01/05/10	SP-15	3 feet bgs	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0011	<0.0021	<15.9	35.4	<15.9	35.4	**732**
01/05/10	SP-16	2.5 feet bgs	In-Situ	<0.0011	<0.0021	<0.0011	<0.0021	<0.0011	<0.0011	<0.0021	<16.0	<16.0	<16.0	<16.0	164
01/05/10	SP-17	4 feet bgs	In-Situ	<0.0013	0.0189	0.0312	0.0794	0.0308	0.1102	0.1603	45.8	90.7	<19.8	**136.5**	70.2
01/05/10	SP-18	4 feet bgs	In-Situ	<0.0011	<0.0021	<0.0011	0.0032	0.0012	0.0044	0.0044	22.6	80.5	<15.9	**103.1**	**607**
01/05/10	SP-19	3 feet bgs	In-Situ	0.2386	1.143	1.478	3.484	1.186	4.67	7.53	417	969	87.6	**1,474**	131
01/05/10	SP-19A	4 feet bgs	In-Situ	<0.0011	<0.0021	0.0015	0.0033	0.0012	0.0045	0.006	<15.8	18.3	<15.8	18.3	<17.7
01/05/10	SP-20	2 feet bgs	In-Situ	<0.0010	<0.0021	0.0012	<0.0021	<0.0010	<0.0010	0.0012	<15.5	<15.5	<15.5	<15.5	<4.34
01/05/10	SP-21	3 feet bgs	In-Situ	0.0013	<0.0022	<0.0011	<0.0022	<0.0011	<0.0011	0.0013	<16.8	343	42.4	**385**	**650**
NMOCD REGULATORY STANDARD				**10**						**50**				**100**	**250**

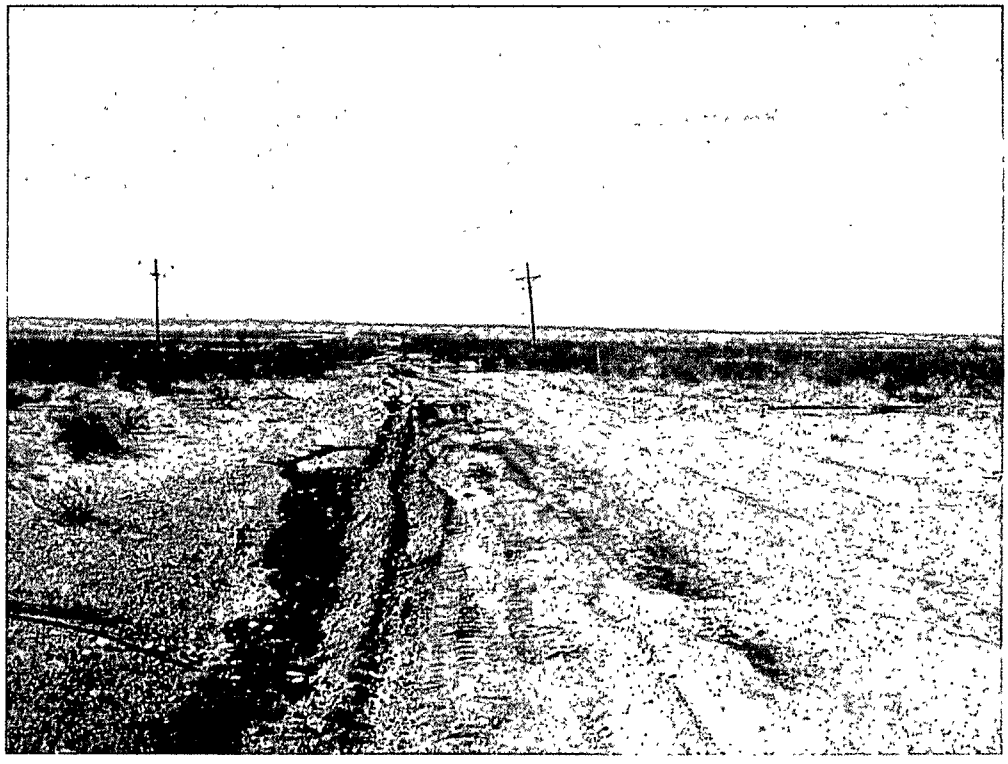
BOLD indicates concentration exceeding NMOCD amended regulatory standards.

Appendices

Appendix A
Photographs



Initial Response at Federal Littlefield "BO" Tank Battery release, looking east toward tank battery



Initial Response at Federal Littlefield "BO" Tank Battery release, looking west along Eddy County road flowpath

Initial Response at Federal Littlefield "BO" Tank Battery release, looking west along Eddy County road flowpath

Initial Response at Federal Littlefield "BO" Tank Battery release, looking east along flowpath toward tank battery

Initial Response at Federal Littlefield "BO" Tank Battery release, looking west along Eddy County road flowpath

Initial Response at Federal Littlefield "BO" Tank Battery release, looking north along Eddy County road flowpath

Initial Response at Federal Littlefield "BO" Tank Battery release, looking west along pipeline right-of-way

Initial Response at Federal Littlefield "BO" Tank Battery release, looking west along pipeline right-of-way

Appendix B
Laboratory Analytical Reports

Analytical Report 357602

for

GP II Energy

Project Manager: Curt Stanley

Littlefield "BO" Fed # 2

GP II Energy

12-JAN-10

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)

12-JAN-10

Project Manager: **Curt Stanley**
GP II Energy
P.O. Box 50682
Midland, TX 79710

Reference: XENCO Report No: **357602**
Littlefield "BO" Fed # 2
Project Address: Eddy County, New Mexico

Curt Stanley:

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 357602. 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. 357602 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 357602

GP II Energy, Midland, TX

Littlefield "BO" Fed # 2

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
SP-1	S	Jan-05-10 10:20		357602-001
SP-2	S	Jan-05-10 10:35		357602-002
SP-3	S	Jan-05-10 10:50		357602-003
SP-4	S	Jan-05-10 11:05		357602-004
SP-5	S	Jan-05-10 11:20		357602-005
SP-5 A	S	Jan-05-10 11:30		357602-006
SP-6	S	Jan-05-10 11:45		357602-007
SP-6 A	S	Jan-05-10 11:55		357602-008
SP-7	S	Jan-05-10 12:05		357602-009
SP-8	S	Jan-05-10 12:20		357602-010
SP-8 A	S	Jan-05-10 12:25		357602-011
SP-9	S	Jan-05-10 12:35		357602-012
SP-10	S	Jan-05-10 12:50		357602-013
SP-10 A	S	Jan-05-10 12:55		357602-014
SP-11	S	Jan-05-10 13:05		357602-015
SP-12	S	Jan-05-10 13:20		357602-016
SP-12 A	S	Jan-05-10 13:30		357602-017
SP-13	S	Jan-05-10 13:45		357602-018
SP-14	S	Jan-05-10 14:00		357602-019
SP-15	S	Jan-05-10 14:15		357602-020
SP-16	S	Jan-05-10 14:30		357602-021
SP-17	S	Jan-05-10 14:45		357602-022
SP-18	S	Jan-05-10 15:00		357602-023
SP-19	S	Jan-05-10 15:15		357602-024
SP-19 A	S	Jan-05-10 15:25		357602-025
SP-20	S	Jan-05-10 15:50		357602-026
SP-21	S	Jan-05-10 16:15		357602-027

CASE NARRATIVE

Client Name: GP II Energy
Project Name: Littlefield "BO" Fed # 2

Project ID:	*GP II Energy*	*Report Date:*	*12-JAN-10*
Work Order Number:	*357602*	*Date Received:*	*01/06/2010*

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-788416 Percent Moisture
None

Batch: LBA-788419 Percent Moisture
None

Batch: LBA-788427 Anions by E300
None

Batch: LBA-788428 Anions by E300
None

Batch: LBA-788467 BTEX by EPA 8021B
SW8021BM

Batch 788467, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 357602-013,357602-019,357602-017,357602-014.

Batch: LBA-788765 BTEX by EPA 8021B
SW8021BM

Batch 788765, 4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data not confirmed by re-analysis
Samples affected are: 357602-022.

CASE NARRATIVE

Client Name: GP II Energy
Project Name: Littlefield "BO" Fed # 2

Project ID: GP II Energy
Work Order Number: 357602

Report Date: 12-JAN-10
Date Received: 01/06/2010

Batch: LBA-788785 BTEX by EPA 8021B
SW8021BM

Batch 788785, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 357602-007.
4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 357602-005,357602-016,357602-008,357602-007.

SW8021BM

Batch 788785, Ethylbenzene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Benzene, Toluene recovered below QC limits in the Matrix Spike Duplicate.
Samples affected are: 357602-005, -007, -008, -016.
The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene is within laboratory Control Limits

Batch: LBA-788825 TPH By SW8015 Mod
SW8015MOD_NM

Batch 788825, C12-C28 Diesel Range Hydrocarbons recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 357602-017, -005, -009, -011, -014, -001, -003, -020, -002, -004, -006, -007, -008, -013, -015, -018, -010, -012, -016, -019.
The Laboratory Control Sample for C12-C28 Diesel Range Hydrocarbons is within laboratory Control Limits

CASE NARRATIVE

Client Name: GP II Energy
Project Name: Littlefield "BO" Fed # 2

Project ID:	*GP II Energy*	*Report Date:*	*12-JAN-10*
Work Order Number:	*357602*	*Date Received:*	*01/06/2010*

Batch: LBA-788827 BTEX by EPA 8021B
SW8021BM

Batch 788827, 1,4-Difluorobenzene recovered below QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 357602-024.
4-Bromofluorobenzene recovered above QC limits . Matrix interferences is suspected; data confirmed by re-analysis
Samples affected are: 357602-024.

SW8021BM

Batch 788827, Benzene, Ethylbenzene, Toluene, m,p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.
Samples affected are: 357602-024.
The Laboratory Control Sample for Toluene, m,p-Xylenes , Benzene, Ethylbenzene, o-Xylene is within laboratory Control Limits

Batch: LBA-788838 TPH By SW8015 Mod
None

Certificate of Analysis Summary 357602

GP II Energy, Midland, TX

Project Name: Littlefield "BO" Fed # 2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Jan-06-10 09:53 am
Report Date: 12-JAN-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	357602-001		357602-002		357602-003		357602-004		357602-005		357602-006	
	Field Id:	SP-1		SP-2		SP-3		SP-4		SP-5		SP-5 A	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-05-10 10:20		Jan-05-10 10:35		Jan-05-10 10:50		Jan-05-10 11:05		Jan-05-10 11:20		Jan-05-10 11:30	
Anions by E300	*Extracted:*												
	Analyzed:	Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20.25		Jan-07-10 20.25		Jan-07-10 20.25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chlonde		548	26.2	568	23.3	2240	49.7	229	9.47	2280	47.0	1850	23.5
BTEX by EPA 8021B	*Extracted:*	Jan-06-10 15:00		Jan-06-10 15:00		Jan-06-10 15.00		Jan-06-10 15:00		Jan-07-10 15:45		Jan-06-10 15:00	
	Analyzed:	Jan-06-10 15:48		Jan-06-10 16:11		Jan-06-10 16 33		Jan-06-10 16:57		Jan-08-10 05:55		Jan-06-10 18:07	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0012	ND	0.0011	ND	0.0012	ND	0 0011	ND	0.0011	ND	0.0011
Toluene		ND	0.0025	ND	0.0022	ND	0.0024	ND	0.0023	0.0105	0 0022	ND	0 0022
Ethylbenzene		0.0038	0.0012	ND	0.0011	ND	0.0012	ND	0.0011	0.0293	0.0011	ND	0.0011
m,p-Xylenes		0.0098	0.0025	ND	0.0022	0.0030	0.0024	ND	0.0023	0 0885	0.0022	ND	0.0022
o-Xylene		0.0055	0.0012	ND	0.0011	ND	0.0012	ND	0 0011	0.0092	0.0011	ND	0 0011
Total Xylenes		0.0153	0.0012	ND	0.0011	0.0030	0.0012	ND	0.0011	0 0977	0.0011	ND	0 0011
Total BTEX		0.0191	0 0012	ND	0 0011	0.0030	0.0012	ND	0.0011	0 1375	0.0011	ND	0.0011
Percent Moisture	*Extracted:*												
	Analyzed:	Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17.00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		19.8	1.00	9.79	1.00	15.5	1 00	11.3	1 00	10.7	1.00	10.6	1.00
TPH By SW8015 Mod	*Extracted:*	Jan-07-10 12:30		Jan-07-10 12.30		Jan-07-10 12.30		Jan-07-10 12.30		Jan-07-10 12.30		Jan-07-10 12:30	
	Analyzed:	Jan-08-10 12:11		Jan-08-10 12:38		Jan-08-10 13:04		Jan-08-10 13:30		Jan-08-10 13.56		Jan-08-10 14.23	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		39.0	18.8	ND	16.7	26.0	17 7	116	16.9	185	16 9	81.0	16.8
C12-C28 Diesel Range Hydrocarbons		278	18.8	137	16.7	137	17 7	414	16.9	602	16.9	149	16.8
C28-C35 Oil Range Hydrocarbons		29.0	18.8	ND	16.7	ND	17.7	47.9	16.9	ND	16.9	31.1	16.8
Total TPH		346	18.8	137	16.7	163	17.7	578	16.9	787	16.9	261	16.8

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 357602

GP II Energy, Midland, TX

Project Name: Littlefield "BO" Fed # 2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Jan-06-10 09:53 am
Report Date: 12-JAN-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	357602-007		357602-008		357602-009		357602-010		357602-011		357602-012	
	Field Id:	SP-6		SP-6 A		SP-7		SP-8		SP-8 A		SP-9	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-05-10 11:45		Jan-05-10 11:55		Jan-05-10 12:05		Jan-05-10 12:20		Jan-05-10 12:25		Jan-05-10 12:35	
Anions by E300	*Extracted:*												
	Analyzed:	Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 20:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chlonde		561	9.24	829	9.49	1480	23.6	1060	48.2	1320	55.4	15.5	5.56
BTEX by EPA 8021B	*Extracted:*	Jan-07-10 15:45		Jan-07-10 15.45		Jan-06-10 15:00		Jan-06-10 15:00		Jan-06-10 15:00		Jan-06-10 15:00	
	Analyzed:	Jan-08-10 06.17		Jan-08-10 06:39		Jan-06-10 19:16		Jan-06-10 19:39		Jan-06-10 20:47		Jan-06-10 21:10	
	Units/RL:	mg/kg	RL	mg/kg	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	ND	0.0013	ND	0.0013
Toluene		0 0071	0.0022	ND	0.0023	ND	0 0022	ND	0.0023	ND	0.0026	ND	0 0027
Ethylbenzene		0.0110	0.0011	0.0037	0.0011	ND	0 0011	ND	0.0011	ND	0 0013	ND	0.0013
m,p-Xylenes		0.0244	0.0022	0.0072	0.0023	ND	0 0022	ND	0.0023	ND	0.0026	ND	0.0027
o-Xylene		0 0202	0.0011	0.0060	0.0011	ND	0.0011	ND	0.0011	ND	0 0013	ND	0 0013
Total Xylenes		0.0446	0.0011	0 0132	0.0011	ND	0.0011	ND	0.0011	ND	0 0013	ND	0 0013
Total BTEX		0.0627	0.0011	0.0169	0.0011	ND	0.0011	ND	0.0011	ND	0.0013	ND	0.0013
Percent Moisture	*Extracted:*												
	Analyzed:	Jan-06-10 17:00		Jan-06-10 17.00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17.00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		9.09	1.00	11.5	1.00	11.0	1.00	12.8	1.00	24.2	1.00	24.5	1 00
TPH By SW8015 Mod	*Extracted:*	Jan-07-10 12.30		Jan-07-10 12.30		Jan-07-10 12:30		Jan-07-10 12.30		Jan-07-10 12:30		Jan-07-10 12:30	
	Analyzed:	Jan-08-10 14.49		Jan-08-10 15:15		Jan-08-10 15:42		Jan-08-10 16:08		Jan-08-10 17:00		Jan-08-10 17:27	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		218	16.5	240	16.9	229	16.8	238	17.2	45.1	19.8	44.3	19.9
C12-C28 Diesel Range Hydrocarbons		910	16.5	470	16.9	262	16.8	496	17.2	303	19.8	334	19.9
C28-C35 Oil Range Hydrocarbons		121	16.5	22.1	16.9	29.6	16.8	24.2	17.2	22.1	19.8	ND	19.9
Total TPH		1249	16.5	732	16.9	521	16.8	758	17.2	370	19.8	378	19.9

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 357602

GP II Energy, Midland, TX

Project Name: Littlefield "BO" Fed # 2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Jan-06-10 09:53 am
Report Date: 12-JAN-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	357602-013		357602-014		357602-015		357602-016		357602-017		357602-018	
	Field Id:	SP-10		SP-10 A		SP-11		SP-12		SP-12 A		SP-13	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-05-10 12:50		Jan-05-10 12:55		Jan-05-10 13:05		Jan-05-10 13:20		Jan-05-10 13:30		Jan-05-10 13:45	
Anions by E300	*Extracted:*												
	Analyzed:	Jan-07-10 20.25		Jan-07-10 20:25		Jan-07-10 20.25		Jan-07-10 20:25		Jan-07-10 20.25		Jan-07-10 20:25	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		1300	18.3	935	18.3	98.5	8.97	473	9.30	275	9.02	79.0	4.60
BTEX by EPA 8021B	*Extracted:*	Jan-06-10 15.00		Jan-06-10 15:00		Jan-06-10 15:00		Jan-07-10 15:45		Jan-06-10 15.00		Jan-06-10 15:00	
	Analyzed:	Jan-06-10 21:33		Jan-06-10 21:56		Jan-06-10 22:19		Jan-08-10 07.01		Jan-06-10 23.04		Jan-06-10 23:27	
	Units/RL:	mg/kg	RL	mg/kg	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	ND	0.0011	ND	0.0011
Toluene		0.0023	0.0022	ND	0.0022	ND	0.0021	ND	0.0022	ND	0.0021	ND	0 0022
Ethylbenzene		0.0168	0.0011	0.0011	0.0011	ND	0.0011	0.0078	0.0011	0.0024	0.0011	ND	0.0011
m,p-Xylenes		0.0523	0.0022	0 0035	0.0022	ND	0.0021	0.0281	0.0022	0.0083	0.0021	0.0024	0 0022
o-Xylene		0.0096	0.0011	ND	0.0011	ND	0.0011	0.0108	0.0011	0.0022	0.0011	ND	0.0011
Total Xylenes		0.0619	0.0011	0.0035	0.0011	ND	0.0011	0.0389	0.0011	0.0105	0.0011	0.0024	0.0011
Total BTEX		0.0810	0.0011	0.0046	0.0011	ND	0.0011	0.0467	0 0011	0.0129	0.0011	0.0024	0 0011
Percent Moisture	*Extracted:*												
	Analyzed:	Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17.00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17.00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		8.44	1.00	7.98	1 00	6.31	1.00	9.65	1.00	6.92	1.00	8.77	1.00
TPH By SW8015 Mod	*Extracted:*	Jan-07-10 12.30		Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 12.30	
	Analyzed:	Jan-08-10 17.53		Jan-08-10 18.19		Jan-08-10 18:45		Jan-08-10 19:11		Jan-08-10 19:37		Jan-08-10 20:03	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		279	16.4	208	16 3	139	16.0	269	16.6	40 2	16.1	38 9	16.4
C12-C28 Diesel Range Hydrocarbons		519	16.4	324	16.3	238	16.0	653	16.6	106	16.1	495	16 4
C28-C35 Oil Range Hydrocarbons		29.3	16.4	19 5	16.3	28.3	16.0	22.1	16.6	ND	16.1	24.9	16.4
Total TPH		827	16.4	552	16.3	405	16.0	944	16.6	146	16.1	559	16.4

Brent Barron, II
Odessa Laboratory Manager

Final Ver. 1.000

Certificate of Analysis Summary 357602

GP II Energy, Midland, TX

Project Name: Littlefield "BO" Fed # 2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Jan-06-10 09:53 am
Report Date: 12-JAN-10
Project Manager: Brent Barron, II

Analysis Requested													
	Lab Id:	357602-019		357602-020		357602-021		357602-022		357602-023		357602-024	
	Field Id:	SP-14		SP-15		SP-16		SP-17		SP-18		SP-19	
	Depth:												
	Matrix:	SOIL		SOIL		SOIL		SOIL		SOIL		SOIL	
	Sampled:	Jan-05-10 14:00		Jan-05-10 14:15		Jan-05-10 14:30		Jan-05-10 14:45		Jan-05-10 15:00		Jan-05-10 15:15	
Anions by E300	*Extracted:*												
	Analyzed:	Jan-07-10 20:25		Jan-07-10 20:25		Jan-07-10 01:42		Jan-07-10 01.42		Jan-07-10 01:42		Jan-07-10 01:42	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Chloride		257	9.07	732	8.90	164	4.47	70.2	5.55	607	8.93	131	10.6
BTEX by EPA 8021B	*Extracted:*	Jan-06-10 15:00		Jan-06-10 15:00		Jan-06-10 15:30		Jan-06-10 15:30		Jan-06-10 15.30		Jan-07-10 09.55	
	Analyzed:	Jan-06-10 23.49		Jan-07-10 00:12		Jan-07-10 08:19		Jan-07-10 08:41		Jan-07-10 09 03		Jan-09-10 04:37	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
Benzene		ND	0.0011	ND	0.0011	ND	0.0011	ND	0.0013	ND	0.0011	0.2386	0.0314
Toluene		0.0028	0.0022	ND	0.0021	ND	0.0021	0.0189	0.0026	ND	0.0021	1.143	0 0628
Ethylbenzene		0 0084	0.0011	ND	0.0011	ND	0.0011	0.0312	0.0013	ND	0.0011	1 478	0 0314
m,p-Xylenes		0 0281	0.0022	ND	0.0021	ND	0.0021	0.0794	0.0026	0.0032	0.0021	3.484	0.0628
o-Xylene		0.0084	0.0011	ND	0.0011	ND	0.0011	0.0308	0.0013	0.0012	0.0011	1.186	0.0314
Total Xylenes		0.0365	0.0011	ND	0.0011	ND	0.0011	0.1102	0.0013	0.0044	0.0011	4.670	0.0314
Total BTEX		0 0477	0.0011	ND	0.0011	ND	0.0011	0.1603	0.0013	0.0044	0.0011	7.530	0.0314
Percent Moisture	*Extracted:*												
	Analyzed:	Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00		Jan-06-10 17:00	
	Units/RL:	%	RL	%	RL	%	RL	%	RL	%	RL	%	RL
Percent Moisture		7.38	1.00	5.64	1.00	5.99	1 00	24.3	1.00	5.95	1 00	20.7	1 00
TPH By SW8015 Mod	*Extracted:*	Jan-07-10 12:30		Jan-07-10 12:30		Jan-07-10 13:00		Jan-07-10 13.00		Jan-07-10 13.00		Jan-07-10 13.00	
	Analyzed:	Jan-08-10 20:29		Jan-08-10 20:55		Jan-09-10 15:08		Jan-09-10 15.34		Jan-09-10 16:01		Jan-09-10 16:28	
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL	mg/kg	RL
C6-C12 Gasoline Range Hydrocarbons		134	16.2	ND	15.9	ND	16.0	45.8	19.8	22.6	15.9	417	18.9
C12-C28 Diesel Range Hydrocarbons		270	16.2	35.4	15.9	ND	16.0	90.7	19.8	80.5	15.9	969	18.9
C28-C35 Oil Range Hydrocarbons		20.6	16.2	ND	15.9	ND	16.0	ND	19.8	ND	15.9	87.6	18.9
Total TPH		425	16.2	35.4	15.9	ND	16.0	136 5	19.8	103.1	15.9	1474	18.9

Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 357602

GP II Energy, Midland, TX

Project Name: Littlefield "BO" Fed # 2

Project Id: GP II Energy
Contact: Curt Stanley
Project Location: Eddy County, New Mexico

Date Received in Lab: Wed Jan-06-10 09:53 am
Report Date: 12-JAN-10
Project Manager: Brent Barron, II

Analysis Requested											
	Lab Id:	357602-025		357602-026		357602-027					
	Field Id:	SP-19 A		SP-20		SP-21					
	Depth:										
	Matrix:	SOIL		SOIL		SOIL					
	Sampled:	Jan-05-10 15:25		Jan-05-10 15:50		Jan-05-10 16:15					
Anions by E300	*Extracted:*										
	Analyzed:	Jan-07-10 01:42		Jan-07-10 01:42		Jan-07-10 01:42					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Chloride		ND	17 7	ND	4.34	650	23.6				
BTEX by EPA 8021B	*Extracted:*	Jan-06-10 15:30		Jan-06-10 15.30		Jan-06-10 15:30					
	Analyzed:	Jan-07-10 09:47		Jan-07-10 10:10		Jan-07-10 10:32					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
Benzene		ND	0.0011	ND	0.0010	0.0013	0.0011				
Toluene		ND	0.0021	ND	0.0021	ND	0 0022				
Ethylbenzene		0.0015	0.0011	0.0012	0.0010	ND	0 0011				
m,p-Xylenes		0.0033	0.0021	ND	0.0021	ND	0.0022				
o-Xylene		0.0012	0.0011	ND	0.0010	ND	0 0011				
Total Xylenes		0.0045	0.0011	ND	0.0010	ND	0.0011				
Total BTEX		0.0060	0.0011	0.0012	0.0010	0.0013	0.0011				
Percent Moisture	*Extracted:*										
	Analyzed:	Jan-06-10 17:00		Jan-06-10 17.00		Jan-06-10 17:00					
	Units/RL:	%	RL	%	RL	%	RL				
Percent Moisture		5.06	1 00	3.13	1.00	10.9	1.00				
TPH By SW8015 Mod	*Extracted:*	Jan-07-10 13:00		Jan-07-10 13.00		Jan-07-10 13:00					
	Analyzed:	Jan-09-10 16:55		Jan-09-10 17 21		Jan-09-10 17:48					
	Units/RL:	mg/kg	RL	mg/kg	RL	mg/kg	RL				
C6-C12 Gasoline Range Hydrocarbons		ND	15.8	ND	15.5	ND	16.8				
C12-C28 Diesel Range Hydrocarbons		18.3	15.8	ND	15 5	343	16.8				
C28-C35 Oil Range Hydrocarbons		ND	15.8	ND	15.5	42.4	16.8				
Total TPH		18.3	15.8	ND	15.5	385	16 8				

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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788467 **Sample:** 547095-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/06/10 13:49

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0343	0.0300	114	80-120	
4-Bromofluorobenzene	0.0330	0.0300	110	80-120	

Lab Batch #: 788467 **Sample:** 547095-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/06/10 14:16

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0335	0.0300	112	80-120	
4-Bromofluorobenzene	0.0326	0 0300	109	80-120	

Lab Batch #: 788467 **Sample:** 547095-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/06/10 15:25

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0304	0.0300	101	80-120	

Lab Batch #: 788467 **Sample:** 357602-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 15:48

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0253	0.0300	84	80-120	
4-Bromofluorobenzene	0.0350	0.0300	117	80-120	

Lab Batch #: 788467 **Sample:** 357602-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 16:11

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0331	0.0300	110	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788467 **Sample:** 357602-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 16:33

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0260	0.0300	87	80-120	
4-Bromofluorobenzene	0.0340	0.0300	113	80-120	

Lab Batch #: 788467 **Sample:** 357602-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 16:57

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	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	0.0338	0.0300	113	80-120	

Lab Batch #: 788467 **Sample:** 357602-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 18:07

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	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	0.0319	0.0300	106	80-120	

Lab Batch #: 788467 **Sample:** 357602-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 19:16

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0266	0.0300	89	80-120	
4-Bromofluorobenzene	0.0360	0.0300	120	80-120	

Lab Batch #: 788467 **Sample:** 357602-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 19:39

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	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	0.0348	0.0300	116	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602, **Project ID:** GP II Energy

Lab Batch #: 788467 **Sample:** 357602-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 20:47

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0326	0.0300	109	80-120	

Lab Batch #: 788467 **Sample:** 357602-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 21:10

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	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	0.0307	0.0300	102	80-120	

Lab Batch #: 788467 **Sample:** 357602-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 21:33

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0242	0.0300	81	80-120	
4-Bromofluorobenzene	0.0497	0.0300	166	80-120	*

Lab Batch #: 788467 **Sample:** 357602-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 21:56

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0371	0.0300	124	80-120	*

Lab Batch #: 788467 **Sample:** 357602-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 22:19

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0262	0.0300	87	80-120	
4-Bromofluorobenzene	0.0345	0.0300	115	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788467 **Sample:** 357602-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 23:04

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0252	0.0300	84	80-120	
4-Bromofluorobenzene	0.0374	0.0300	125	80-120	*

Lab Batch #: 788467 **Sample:** 357602-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 23:27

BTEX by EPA 8021B 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	0.0338	0 0300	113	80-120	

Lab Batch #: 788467 **Sample:** 357602-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/06/10 23:49

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0255	0.0300	85	80-120	
4-Bromofluorobenzene	0.0424	0.0300	141	80-120	*

Lab Batch #: 788467 **Sample:** 357602-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 00:12

BTEX by EPA 8021B 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	0.0322	0.0300	107	80-120	

Lab Batch #: 788467 **Sample:** 357602-015 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 00:34

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0324	0.0300	108	80-120	
4-Bromofluorobenzene	0.0317	0.0300	106	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602, **Project ID:** GP II Energy

Lab Batch #: 788467 **Sample:** 357602-015 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 00:57

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0321	0.0300	107	80-120	
4-Bromofluorobenzene	0.0316	0.0300	105	80-120	

Lab Batch #: 788765 **Sample:** 547268-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/07/10 06:29

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0292	0.0300	97	80-120	

Lab Batch #: 788765 **Sample:** 547268-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/07/10 06:51

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0310	0.0300	103	80-120	
4-Bromofluorobenzene	0.0285	0.0300	95	80-120	

Lab Batch #: 788765 **Sample:** 547268-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/07/10 07:57

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 788765 **Sample:** 357602-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 08:19

BTEX by EPA 8021B 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	0.0299	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: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788765 **Sample:** 357602-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 08:41

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0256	0 0300	85	80-120	
4-Bromofluorobenzene	0.0459	0 0300	153	80-120	*

Lab Batch #: 788765 **Sample:** 357602-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 09:03

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	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	0.0328	0.0300	109	80-120	

Lab Batch #: 788765 **Sample:** 357602-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 09:47

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0253	0.0300	84	80-120	
4-Bromofluorobenzene	0.0295	0.0300	98	80-120	

Lab Batch #: 788765 **Sample:** 357602-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 10:10

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	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	0.0349	0.0300	116	80-120	

Lab Batch #: 788765 **Sample:** 357602-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 10:32

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0241	0.0300	80	80-120	
4-Bromofluorobenzene	0.0285	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602, **Project ID:** GP II Energy

Lab Batch #: 788765 **Sample:** 357602-021 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 12:03

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0309	0.0300	103	80-120	
4-Bromofluorobenzene	0.0310	0.0300	103	80-120	

Lab Batch #: 788765 **Sample:** 357602-021 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/07/10 12:25

BTEX by EPA 8021B	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	0.0300	0.0300	100	80-120	

Lab Batch #: 788785 **Sample:** 547277-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 02:16

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	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	0.0296	0.0300	99	80-120	

Lab Batch #: 788785 **Sample:** 547277-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 03:00

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0277	0.0300	92	80-120	
4-Bromofluorobenzene	0 0305	0.0300	102	80-120	

Lab Batch #: 788785 **Sample:** 357602-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 05:55

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0253	0.0300	84	80-120	
4-Bromofluorobenzene	0.0683	0.0300	228	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788785 **Sample:** 357602-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 06:17

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0232	0.0300	77	80-120	**
4-Bromofluorobenzene	0.0396	0.0300	132	80-120	**

Lab Batch #: 788785 **Sample:** 357602-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 06:39

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0268	0.0300	89	80-120	
4-Bromofluorobenzene	0.0368	0.0300	123	80-120	**

Lab Batch #: 788785 **Sample:** 357602-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 07:01

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0 0270	0.0300	90	80-120	
4-Bromofluorobenzene	0.0441	0.0300	147	80-120	**

Lab Batch #: 788785 **Sample:** 357700-001 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 07:23

BTEX by EPA 8021B	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	0.0358	0.0300	119	80-120	

Lab Batch #: 788785 **Sample:** 357700-001 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 07:45

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0305	0.0300	102	80-120	
4-Bromofluorobenzene	0.0322	0.0300	107	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: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788827 **Sample:** 547316-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 20:33

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0320	0.0300	107	80-120	
4-Bromofluorobenzene	0.0297	0.0300	99	80-120	

Lab Batch #: 788827 **Sample:** 547316-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 20:56

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0316	0.0300	105	80-120	
4-Bromofluorobenzene	0.0303	0.0300	101	80-120	

Lab Batch #: 788827 **Sample:** 547316-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 21:41

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	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	0.0292	0.0300	97	80-120	

Lab Batch #: 788827 **Sample:** 357602-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 04:37

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0205	0.0300	68	80-120	**
4-Bromofluorobenzene	0.0362	0.0300	121	80-120	**

Lab Batch #: 788827 **Sample:** 357767-004 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 05:43

BTEX by EPA 8021B	SURROGATE RECOVERY STUDY				
Analytes	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	0.0297	0.0300	99	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788827 **Sample:** 357767-004 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 06:05

BTEX by EPA 8021B Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0288	0.0300	96	80-120	
4-Bromofluorobenzene	0.0293	0.0300	98	80-120	

Lab Batch #: 788825 **Sample:** 547315-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 10:53

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	105	99.8	105	70-135	
o-Terphenyl	47.8	49.9	96	70-135	

Lab Batch #: 788825 **Sample:** 547315-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 11:19

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	93.7	100	94	70-135	
o-Terphenyl	43.8	50.1	87	70-135	

Lab Batch #: 788825 **Sample:** 547315-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/08/10 11:45

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.2	99.7	86	70-135	
o-Terphenyl	49.4	49.9	99	70-135	

Lab Batch #: 788825 **Sample:** 357602-001 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 12:11

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.3	101	89	70-135	
o-Terphenyl	51 6	50.3	103	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788825 **Sample:** 357602-002 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 12:38

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.5	100	89	70-135	
o-Terphenyl	50.5	50.1	101	70-135	

Lab Batch #: 788825 **Sample:** 357602-003 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 13:04

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.8	99.6	93	70-135	
o-Terphenyl	52.4	49.8	105	70-135	

Lab Batch #: 788825 **Sample:** 357602-004 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 13:30

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.9	100	92	70-135	
o-Terphenyl	50.6	50.1	101	70-135	

Lab Batch #: 788825 **Sample:** 357602-005 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 13:56

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.2	101	87	70-135	
o-Terphenyl	49.8	50.3	99	70-135	

Lab Batch #: 788825 **Sample:** 357602-006 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 14:23

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.6	100	87	70-135	
o-Terphenyl	49.8	50.1	99	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788825 **Sample:** 357602-007 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 14:49

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.9	100	92	70-135	
o-Terphenyl	50.0	50.0	100	70-135	

Lab Batch #: 788825 **Sample:** 357602-008 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 15:15

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.1	100	92	70-135	
o-Terphenyl	52.4	50.0	105	70-135	

Lab Batch #: 788825 **Sample:** 357602-009 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 15:42

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	86.1	99.6	86	70-135	
o-Terphenyl	49.7	49.8	100	70-135	

Lab Batch #: 788825 **Sample:** 357602-010 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 16:08

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.1	100	85	70-135	
o-Terphenyl	50.4	50.0	101	70-135	

Lab Batch #: 788825 **Sample:** 357602-011 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 17:00

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.3	100	91	70-135	
o-Terphenyl	52.2	50.0	104	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.

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Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788825 **Sample:** 357602-012 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 17:27

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.2	100	88	70-135	
o-Terphenyl	51.3	50.0	103	70-135	

Lab Batch #: 788825 **Sample:** 357602-013 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 17:53

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.6	100	97	70-135	
o-Terphenyl	52.7	50.0	105	70-135	

Lab Batch #: 788825 **Sample:** 357602-014 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 18:19

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.9	100	91	70-135	
o-Terphenyl	50.0	50.0	100	70-135	

Lab Batch #: 788825 **Sample:** 357602-015 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 18:45

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	85.1	99.7	85	70-135	
o-Terphenyl	48.7	49.9	98	70-135	

Lab Batch #: 788825 **Sample:** 357602-016 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 19:11

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.1	100	94	70-135	
o-Terphenyl	54.7	50.0	109	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788825 **Sample:** 357602-017 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 19:37

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	92.2	100	92	70-135	
o-Terphenyl	51.8	50.0	104	70-135	

Lab Batch #: 788825 **Sample:** 357602-018 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 20:03

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.0	100	88	70-135	
o-Terphenyl	50.3	50.0	101	70-135	

Lab Batch #: 788825 **Sample:** 357602-019 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 20:29

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.2	100	88	70-135	
o-Terphenyl	50.0	50.0	100	70-135	

Lab Batch #: 788825 **Sample:** 357602-020 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 20:55

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	88.7	100	89	70-135	
o-Terphenyl	50.4	50.0	101	70-135	

Lab Batch #: 788825 **Sample:** 357602-006 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 21:21

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.9	99.5	99	70-135	
o-Terphenyl	46.1	49.8	93	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602, **Project ID:** GP II Energy

Lab Batch #: 788825 **Sample:** 357602-006 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/08/10 21:47

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.8	99.7	99	70-135	
o-Terphenyl	45.7	49 9	92	70-135	

Lab Batch #: 788838 **Sample:** 547321-1-BKS / BKS **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/10 13:47

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	102	99.5	103	70-135	
o-Terphenyl	46.8	49.8	94	70-135	

Lab Batch #: 788838 **Sample:** 547321-1-BSD / BSD **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/10 14:14

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	101	99.9	101	70-135	
o-Terphenyl	46.7	50.0	93	70-135	

Lab Batch #: 788838 **Sample:** 547321-1-BLK / BLK **Batch:** 1 **Matrix:** Solid

Units: mg/kg **Date Analyzed:** 01/09/10 14:41

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	90.4	101	90	70-135	
o-Terphenyl	50.7	50.3	101	70-135	

Lab Batch #: 788838 **Sample:** 357602-021 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 15:08

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	96.0	100	96	70-135	
o-Terphenyl	53.6	50.0	107	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602, **Project ID:** GP II Energy

Lab Batch #: 788838 **Sample:** 357602-022 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 15:34

TPH By SW8015 Mod 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	62.0	50.0	124	70-135	

Lab Batch #: 788838 **Sample:** 357602-023 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 16:01

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	94.0	100	94	70-135	
o-Terphenyl	52.6	50.0	105	70-135	

Lab Batch #: 788838 **Sample:** 357602-024 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 16:28

TPH By SW8015 Mod 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	55.1	50.1	110	70-135	

Lab Batch #: 788838 **Sample:** 357602-025 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 16:55

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	91.1	100	91	70-135	
o-Terphenyl	51.5	50.0	103	70-135	

Lab Batch #: 788838 **Sample:** 357602-026 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 17:21

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	97.0	100	97	70-135	
o-Terphenyl	53.6	50.0	107	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.

Form 2 - Surrogate Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Orders : 357602,

Project ID: GP II Energy

Lab Batch #: 788838 **Sample:** 357602-027 / SMP **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/09/10 17:48

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	113	100	113	70-135	
o-Terphenyl	62.5	50.0	125	70-135	

Lab Batch #: 788838 **Sample:** 357602-021 S / MS **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/10/10 00:18

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	98.0	99.9	98	70-135	
o-Terphenyl	45.0	50.0	90	70-135	

Lab Batch #: 788838 **Sample:** 357602-021 SD / MSD **Batch:** 1 **Matrix:** Soil

Units: mg/kg **Date Analyzed:** 01/10/10 00:44

TPH By SW8015 Mod Analytes	SURROGATE RECOVERY STUDY Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	100	99.9	100	70-135	
o-Terphenyl	46.1	50.0	92	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: Littlefield "BO" Fed # 2

Work Order #: 357602 **Project ID:** GP II Energy

Lab Batch #: 788785 **Sample:** 547277-1-BKS **Matrix:** Solid
Date Analyzed: 01/08/2010 **Date Prepared:** 01/07/2010 **Analyst:** ASA
Reporting Units: mg/kg **Batch #:** 1

BTEX by EPA 8021B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Benzene	ND	0.1000	0.0892	89	70-130	
Toluene	ND	0.1000	0.0907	91	70-130	
Ethylbenzene	ND	0.1000	0.0913	91	71-129	
m,p-Xylenes	ND	0.2000	0.1875	94	70-135	
o-Xylene	ND	0.1000	0.0987	99	71-133	

Lab Batch #: 788427 **Sample:** 788427-1-BKS **Matrix:** Solid
Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR
Reporting Units: mg/kg **Batch #:** 1

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Chloride	ND	10.0	10.6	106	75-125	

Lab Batch #: 788428 **Sample:** 788428-1-BKS **Matrix:** Solid
Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR
Reporting Units: mg/kg **Batch #:** 1

Anions by E300 Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
		BLANK /BLANK SPIKE RECOVERY STUDY				
Chloride	ND	10.0	10.7	107	75-125	

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

BS / BSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order #: 357602 **Project ID:** GP II Energy

Analyst: ASA **Date Prepared:** 01/06/2010 **Date Analyzed:** 01/06/2010

Lab Batch ID: 788467 **Sample:** 547095-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B 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	0.1029	103	0.1	0.1010	101	2	70-130	35	
Toluene	ND	0.1000	0.1055	106	0.1	0.1037	104	2	70-130	35	
Ethylbenzene	ND	0.1000	0.1053	105	0.1	0.1035	104	2	71-129	35	
m,p-Xylenes	ND	0.2000	0.2167	108	0.2	0.2126	106	2	70-135	35	
o-Xylene	ND	0.1000	0.1127	113	0 1	0.1108	111	2	71-133	35	

Analyst: ASA **Date Prepared:** 01/06/2010 **Date Analyzed:** 01/07/2010

Lab Batch ID: 788765 **Sample:** 547268-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B 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	0.0941	94	0.1	0.0932	93	1	70-130	35	
Toluene	ND	0.1000	0.0893	89	0.1	0.0912	91	2	70-130	35	
Ethylbenzene	ND	0.1000	0.0869	87	0.1	0.0892	89	3	71-129	35	
m,p-Xylenes	ND	0.2000	0.1780	89	0.2	0.1829	91	3	70-135	35	
o-Xylene	ND	0.1000	0.0940	94	0.1	0.0964	96	3	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

BS / BSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order #: 357602 **Project ID:** GP II Energy

Analyst: ASA **Date Prepared:** 01/07/2010 **Date Analyzed:** 01/08/2010

Lab Batch ID: 788827 **Sample:** 547316-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

BTEX by EPA 8021B	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
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	0.0939	94	0.1	0.0928	93	1	70-130	35	
Toluene	ND	0.1000	0 0951	95	0.1	0.0944	94	1	70-130	35	
Ethylbenzene	ND	0.1000	0.0939	94	0.1	0.0938	94	0	71-129	35	
m,p-Xylenes	ND	0.2000	0.1910	96	0.2	0.1913	96	0	70-135	35	
o-Xylene	ND	0.1000	0.1006	101	0.1	0.1011	101	0	71-133	35	

Analyst: BEV **Date Prepared:** 01/07/2010 **Date Analyzed:** 01/08/2010

Lab Batch ID: 788825 **Sample:** 547315-1-BKS **Batch #:** 1 **Matrix:** Solid

Units: mg/kg

TPH By SW8015 Mod	BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY										
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-C12 Gasoline Range Hydrocarbons	ND	998	915	92	1000	849	85	7	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	998	945	95	1000	783	78	19	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

BS / BSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order #: 357602
Analyst: BEV
Lab Batch ID: 788838
Sample: 547321-1-BKS
Units: mg/kg

Date Prepared: 01/07/2010
Batch #: 1

Project ID: GP II Energy
Date Analyzed: 01/09/2010
Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TPH By SW8015 Mod 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-C12 Gasoline Range Hydrocarbons	ND	995	890	89	999	877	88	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	995	846	85	999	844	84	0	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: Littlefield "BO" Fed # 2

Work Order #: 357602

Lab Batch #: 788427 **Project ID:** GP II Energy

Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR

QC- Sample ID: 357602-001 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	548	748	1300	101	75-125	

Lab Batch #: 788428

Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR

QC- Sample ID: 357602-021 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	164	160	323	99	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

Form 3 - MS / MSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order # : 357602 **Project ID:** GP II Energy

Lab Batch ID: 788467 **QC- Sample ID:** 357602-015 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/07/2010 **Date Prepared:** 01/06/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B 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	ND	0.1067	0.0936	88	0.1067	0 0905	85	3	70-130	35	
Toluene	ND	0.1067	0.0942	88	0.1067	0.0914	86	3	70-130	35	
Ethylbenzene	ND	0.1067	0.0907	85	0.1067	0.0883	83	3	71-129	35	
m,p-Xylenes	ND	0.2135	0.1857	87	0.2135	0.1813	85	2	70-135	35	
o-Xylene	ND	0.1067	0.0965	90	0.1067	0.0935	88	3	71-133	35	

Lab Batch ID: 788765 **QC- Sample ID:** 357602-021 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/07/2010 **Date Prepared:** 01/06/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B 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	ND	0.1064	0.0928	87	0.1064	0.0889	84	4	70-130	35	
Toluene	ND	0.1064	0.0952	89	0.1064	0.0902	85	5	70-130	35	
Ethylbenzene	ND	0.1064	0.0917	86	0.1064	0.0866	81	6	71-129	35	
m,p-Xylenes	ND	0.2127	0.1889	89	0.2127	0 1781	84	6	70-135	35	
o-Xylene	ND	0.1064	0 0965	91	0.1064	0.0910	86	6	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

Form 3 - MS / MSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order # : 357602 **Project ID:** GP II Energy

Lab Batch ID: 788785 **QC- Sample ID:** 357700-001 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/08/2010 **Date Prepared:** 01/07/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B 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	ND	0.1045	0 0749	72	0.1045	0.0699	67	7	70-130	35	X
Toluene	ND	0.1045	0.0750	72	0.1045	0 0719	69	4	70-130	35	X
Ethylbenzene	ND	0.1045	0.0731	70	0.1045	0.0727	70	1	71-129	35	X
m,p-Xylenes	ND	0.2090	0.1497	72	0.2090	0.1499	72	0	70-135	35	
o-Xylene	ND	0.1045	0.0775	74	0.1045	0.0767	73	1	71-133	35	

Lab Batch ID: 788827 **QC- Sample ID:** 357767-004 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/09/2010 **Date Prepared:** 01/07/2010 **Analyst:** ASA

Reporting Units: mg/kg

BTEX by EPA 8021B 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	ND	0.1237	0.0161	13	0 1232	0.0181	15	12	70-130	35	X
Toluene	ND	0.1237	0.0104	8	0 1232	0.0131	11	23	70-130	35	X
Ethylbenzene	ND	0.1237	0.0139	11	0.1232	0.0160	13	14	71-129	35	X
m,p-Xylenes	ND	0.2474	0.0284	11	0.2464	0.0313	13	10	70-135	35	X
o-Xylene	ND	0.1237	0.0162	13	0.1232	0.0183	15	12	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

Form 3 - MS / MSD Recoveries

Project Name: Littlefield "BO" Fed # 2

Work Order # : 357602 **Project ID:** GP II Energy

Lab Batch ID: 788825 **QC- Sample ID:** 357602-006 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/08/2010 **Date Prepared:** 01/07/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod 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-C12 Gasoline Range Hydrocarbons	81.0	1110	973	80	1120	977	80	0	70-135	35	
C12-C28 Diesel Range Hydrocarbons	149	1110	901	68	1120	919	69	2	70-135	35	X

Lab Batch ID: 788838 **QC- Sample ID:** 357602-021 S **Batch #:** 1 **Matrix:** Soil

Date Analyzed: 01/10/2010 **Date Prepared:** 01/07/2010 **Analyst:** BEV

Reporting Units: mg/kg

TPH By SW8015 Mod 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-C12 Gasoline Range Hydrocarbons	ND	1060	931	88	1060	921	87	1	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1060	872	82	1060	861	81	1	70-135	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

Sample Duplicate Recovery

Project Name: Littlefield "BO" Fed # 2

Work Order #: 357602

Lab Batch #: 788427 **Project ID:** GP II Energy

Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR

QC- Sample ID: 357602-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300 / Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	548	547	0	20	

Lab Batch #: 788428

Date Analyzed: 01/07/2010 **Date Prepared:** 01/07/2010 **Analyst:** LATCOR

QC- Sample ID: 357602-021 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: mg/kg

Anions by E300 / Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Chloride	164	160	2	20	

Lab Batch #: 788416

Date Analyzed: 01/06/2010 **Date Prepared:** 01/06/2010 **Analyst:** MOV

QC- Sample ID: 357602-001 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture / Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	19.8	20.7	5	20	

Lab Batch #: 788419

Date Analyzed: 01/06/2010 **Date Prepared:** 01/06/2010 **Analyst:** MOV

QC- Sample ID: 357602-021 D **Batch #:** 1 **Matrix:** Soil

Reporting Units: %

Percent Moisture / Analyte	SAMPLE / SAMPLE DUPLICATE RECOVERY				
	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Percent Moisture	5.99	5.83	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

Environmental Lab of Texas

A Xenco Laboratories Company

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: Curt Stanley (Page 1 of 3)

Company Name: GP II Energy

Company Address: P.O. Box 50682

City/State/Zip: Midland, Texas 79710

Telephone No: 575-441-2244 Fax No: 575-396-1429

Sampler Signature:

e-mail: cdstanley@basin-consulting.com

Project Name: Littlefield "BO" Fed #2

Project #: GP II Energy

Project Loc: Eddy County, New Mexico

PO #:

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

(lab use only)

ORDER #: 357602

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: TPH: 418.1 / 8015M	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 EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
01	SP-1			1/5/2010	1020		1	X								Soil	X								X			X			X
02	SP-2			1/5/2010	1035		1	X								Soil	X								X			X			X
03	SP-3			1/5/2010	1050		1	X								Soil	X								X			X			X
04	SP-4			1/5/2010	1105		1	X								Soil	X								X			X			X
05	SP-5			1/5/2010	1120		1	X								Soil	X								X			X			X
06	SP-5A			1/5/2010	1130		1	X								Soil	X								X			X			X
07	SP-6			1/5/2010	1145		1	X								Soil	X								X			X			X
08	SP-6A			1/5/2010	1155		1	X								Soil	X								X			X			X
09	SP-7			1/5/2010	1205		1	X								Soil	X								X			X			X
10	SP-8			1/5/2010	1220		1	X								Soil	X								X			X			X

Special Instructions:

BILL TO GP II ENERGY

Relinquished by:	Date	Time	Received by:	Date	Time
	1/6/10	0953			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Lam	1-6-10	9:53

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

4 oz glass

Temperature Upon Receipt: 3.4 °C

Environmental Lab of Texas

A Xenco Laboratories Company

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: Curt Stanley (Page 2 of 3)

Company Name: GP II Energy

Company Address: P.O. Box 50682

City/State/Zip: Midland, Texas 79710

Telephone No: 575-441-2244 Fax No: 575-396-1429

Sampler Signature:

Project Name: Littlefield "BO" Fed #2

Project #: GP II Energy

Project Loc: Eddy County, New Mexico

PO #:

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

e-mail: cdstanley@basin-consulting.com

(lab use only) ORDER #: 357602

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	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.	Chloride EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
11	SP-8A			1/5/2010	1225		1	X								Soil	X										X			X			X
12	SP-9			1/5/2010	1235		1	X								Soil	X										X			X			X
13	SP-10			1/5/2010	1250		1	X								Soil	X										X			X			X
14	SP-10A			1/5/2010	1255		1	X								Soil	X										X			X			X
15	SP-11			1/5/2010	1305		1	X								Soil	X										X			X			X
16	SP-12			1/5/2010	1320		1	X								Soil	X										X			X			X
17	SP-12A			1/5/2010	1330		1	X								Soil	X										X			X			X
18	SP-13			1/5/2010	1345		1	X								Soil	X										X			X			X
19	SP-14			1/5/2010	1400		1	X								Soil	X										X			X			X
20	SP-15			1/5/2010	1415		1	X								Soil	X										X			X			X

Special Instructions:

BILL TO GP II ENERGY

Relinquished by:	Date	Time	Received by:	Date	Time
	1/6/10	0953			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Sam	1.6.10	9:53

Laboratory Comments:

Sample Containers Intact? Y N

VOCs Free of Headspace? N

Labels on container(s) Y N

Custody seals on container(s) N

Custody seals on cooler(s) N/A

Sample Hand Delivered Y N

by Sampler/Client Rep. ? Y N

by Courier? UPS DHL FedEx Lone Star

4 oz glass

Temperature Upon Receipt: 3.6 °C

Environmental Lab of Texas

A Xenco Laboratories Company

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: Curt Stanley (Page 3 of 3)
Company Name: GP II Energy
Company Address: P.O. Box 50682
City/State/Zip: Midland, Texas 79710
Telephone No: 575-441-2244 Fax No: 575-396-1429
Sampler Signature:

Project Name: Littlefield "BO" Fed #2
Project #: GP II Energy
Project Loc: Eddy County, New Mexico
PO #:
Report Format: [X] Standard [ ] TRRP [ ] NPDES
e-mail: cdstanley@basin-consulting.com

(lab use only)
ORDER #: 357602

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	TPH: TX 1005	TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	BAR / ESP / CEC	Metals As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	TOTAL: BTEX 8021B/5030 or 8TEX 8260	RCI	N.O.R.M.	Chloride EPA 300	HOLD	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT
12	SP-16			1/5/2010	1430		1	X								Soil	X										X			X			X
13	SP-17			1/5/2010	1445		1	X								Soil	X										X			X			X
14	SP-18			1/5/2010	1500		1	X								Soil	X										X			X			X
15	SP-19			1/5/2010	1515		1	X								Soil	X										X			X			X
16	SP-19A			1/5/2010	1525		1	X								Soil	X										X			X			X
17	SP-20			1/5/2010	1550		1	X								Soil	X										X			X			X
18	SP-21			1/5/2010	1615		1	X								Soil	X										X			X			X

Special Instructions:
BILL TO GP II ENERGY

Relinquished by:	Date	Time	Received by:	Date	Time
	1/6/10	0953			
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			Andrea Sam	1.6.10	9:53

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
4029155
Temperature Upon Receipt: 3.6 °C

Environmental Lab of Texas

Variance/ Corrective Action Report- Sample Log-In

Client: GP II Energy

Date/ Time: 1.6.10 9:53

Lab ID # : 357602

Initials: AL

Sample Receipt Checklist

					Client Initials
#1	Temperature of container/ cooler?	(Yes)	No	3.6 °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

Appendix C
Release Notification and Corrective Action
(Form C-141)

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

NMOCD ARTESIA

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	GP II Energy, Inc. 8359	Contact	Joe Compton
Address	PO Box 50682	Telephone No.	432-684-4748
Facility Name	Federal Littlefield "BO" Tank Battery	Facility Type	Tank Battery - Oil and Produced Water Storage

Surface Owner	Federal	Mineral Owner	Federal	Lease No.	LC-065928A

LITTLEFIELD BO FEDERAL 002
30-015-24529

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	34	26S	29E	~710 724	N	~750 660	E	Eddy

Latitude N 32 0' 12.10" **Longitude** W -103 57' 59.06"

NATURE OF RELEASE

night of Dec. 7, 2009 ~11:00am Dec.8, 2009

Type of Release	Produced Oil	Volume of Release ~92.5 Bbls.	Volume Recovered 20 Bbls.
Source of Release	Oil Storage Tank	Date and Hour of Occurrence	Date and Hour of Discovery
Was Immediate Notice Given? ☐ Yes ☒ No ☐ Not Required		If YES, To Whom? **Bureau of Land Management notified GP II Energy** that a spill had been reported by New Mexico OCD field inspector at the Federal Littlefield "BO" tank battery.	
By Whom?		Date and Hour Check with BLM	
Was a Watercourse Reached? ☐ Yes ☒ No		If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Worked over Federal "BO" #6. Well flowed during night and pushed water from the gun barrel into oil storage tank. Equalizer was unable to accommodate flow and oil ran over the storage tank. We are going to install a larger gun barrel capable of handling production surges of this volume.

Describe Area Affected and Cleanup Action Taken.* Please refer to attached google earth map. The green line marks the length and path of the spill. We are currently removing contaminated soil and cleaning up the road under the direct supervision of a BLM field agent. We will have the cut areas sampled and analyzed for contamination prior to backfilling with approved soil or road material.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: Joe L Compton

Printed Name: Joe L Compton

Title: Agent

E-mail Address: compton@gp2energy.com

Date: 12-11-2009 Phone: 432-684-4748

* Attach Additional Sheets If Necessary

OIL CONSERVATION DIVISION

Approved by District Supervisor: Signed by

Approval Date: 12-16-09 Expiration Date: 02-16-2010

Conditions of Approval: Within 30 days, on or before 01-21-2010 completion of a remediation work plan based on delineation should be finalized and submitted for approval to the Division summarizing all actions taken and/or to be taken to mitigate environmental damage.

The plan must include general site characteristics, site ranking score, soil remediation action levels, soil remediation methods, and planned analytical testing for TPH, B-TEX, Chlorides or any other COCs as applicable. Please use the "Guidelines for Remediation of Leaks, Spills, & Releases" as your guide. This document may be found at the following link:

Remediation Actions to be completed and Final C-141 submitted with confirmation analyses/documentation on or before the Expiration Date.

NMOCD approval shall be obtained prior to any backfilling activities.

Notify OCD 48 hours prior to obtaining samples where analyses are to be presented to OCD

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