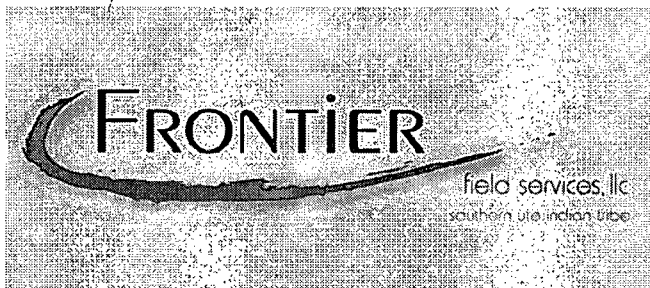


GW-020

**Annual Analysis
Conoco Playa Lake**

**DATE:
Oct. 19, 2011**



David J Feather
Environmental Technician

Phone: 575-677-5140
Fax: 575-677-5152
Cell: 575-706-5287
dfeather@akaenergy.com

CERTIFIED MAIL:

No. 7006 0100 0004 2382 0324
RETURN RECEIPT REQUESTED

October 19, 2011

State of New Mexico
Attn: Mr. Wayne Price
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RE: **Annual Discharge Permit for Conoco Playa Lake
Discharge Plan #GW-020
Frontier Field Services, LLC
Maljamar Gas Plant, Lea County**

RECEIVED OCD
2011 OCT 24 PM 2:52

Dear Mr. Price:

Attached is the water analysis and monthly discharged water meter readings for the Frontier Field Services Maljamar Gas Plant disposal of "Reverse Osmosis" wastewater into Conoco Phillips' Playa Lake. OCD Discharge Permit #GW-020 requires metering of the discharged water to be recorded monthly and a laboratory analysis of a water sample from this stream on an annual basis.

Please contact me at one of the numbers indicated above with any questions or comments.

Sincerely,

David J. Feather

Attachments (2)

4200 E. Skelly Drive, Suite 700, Tulsa, OK 74135
Phone (918) 493-4450 ~ Fax (918) 492-4701

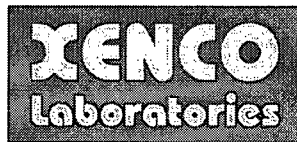
Analytical Report 428923

for Frontier Field Services

Project Manager: Steve Maker
Playa Lake Discharge

14-OCT-11

Collected By: Client



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12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AAL11), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

Xenco-Miami (EPA Lab code: FL01152): Florida (E86678), Maryland (330)

Xenco-Tampa Mobile (EPA Lab code: FL01212): Florida (E84900)

Xenco-Odessa (EPA Lab code: TX00158): Texas (T104704400-TX)

Xenco-Dallas (EPA Lab code: TX01468): Texas (T104704295-TX)

Xenco Phoenix (EPA Lab Code: AZ00901): Arizona (AZ0757)

Xenco-Phoenix Mobile (EPA Lab code: AZ00901): Arizona (AZM757)

Xenco Tucson (EPA Lab code: AZ000989): Arizona (AZ0758)



14-OCT-11

Project Manager: **Steve Maker**
Frontier Field Services
1001 Conoco Road

Maljamar, NM 88264

Reference: XENCO Report No: **428923**
Playa Lake Discharge
Project Address: Maljamar, NM

Steve Maker:

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 428923. 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. 428923 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron II

Odessa Laboratory Manager

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Sample Cross Reference 428923



Frontier Field Services, Maljamar, NM

Playa Lake Discharge

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Playa Lake Discharge	W	10-04-11 12:20		428923-001



CASE NARRATIVE

Client Name: Frontier Field Services

Project Name: Playa Lake Discharge



Project ID:

Work Order Number: 428923

Report Date: 14-OCT-11

Date Received: 10/04/2011

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non conformances and comments:

Batch: LBA-872283 VOAs by SW-846 8260B

SW8260B

Batch 872283, Chloromethane recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate. Vinyl Chloride recovered below QC limits in the Matrix Spike Duplicate.

Samples affected are: 428923-001.

The Laboratory Control Sample for Chloromethane, Vinyl Chloride is within laboratory Control Limits



Certificate of Analysis Summary 428923

Frontier Field Services, Maljamar, NM

Project Name: Playa Lake Discharge



Project Id:

Contact: Steve Maker

Project Location: Maljamar, NM

Date Received in Lab: Tue Oct-04-11 03:40 pm

Report Date: 14-OCT-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id: 428923-001 Field Id: Playa Lake Discharge Depth: Matrix: WATER Sampled: Oct-04-11 12:20					
TCLP Mercury by SW 7470A SUB: E87429	Extracted: Oct-11-11 09:08 Analyzed: Oct-12-11 11:27 Units/RL: mg/L RL					
Mercury	ND 0.0100					
TCLP RCRA Metals by SW-846 1311/6010C SUB: E87429	Extracted: Oct-10-11 10:44 Analyzed: Oct-10-11 16:53 Units/RL: mg/L RL					
Arsenic	ND 0.500					
Barium	ND 0.500					
Cadmium	ND 0.500					
Chromium	ND 0.500					
Lead	ND 0.500					
Selenium	ND 0.500					
Silver	ND 0.500					

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

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Brent Barron II
Odessa Laboratory Manager



Certificate of Analysis Summary 428923

Frontier Field Services, Maljamar, NM

Project Name: Playa Lake Discharge



Project Id:

Contact: Steve Maker

Project Location: Maljamar, NM

Date Received in Lab: Tue Oct-04-11 03:40 pm

Report Date: 14-OCT-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	428923-001				
	Field Id:	Playa Lake Discharge				
	Depth:					
	Matrix:	WATER				
	Sampled:	Oct-04-11 12:20				
VOAs by SW-846 8260B SUB: E871002	Extracted:	Oct-12-11 11:21				
	Analyzed:	Oct-12-11 12:58				
	Units/RL:	mg/L RL				
1,1,1,2-Tetrachloroethane		ND 0.00500				
1,1,1-Trichloroethane		ND 0.00500				
1,1,2,2-Tetrachloroethane		ND 0.00500				
1,1,2-Trichloroethane		ND 0.00500				
1,1-Dichloroethane		ND 0.00500				
1,1-Dichloroethene		ND 0.00500				
1,1-Dichloropropene		ND 0.00500				
1,2,3-Trichlorobenzene		ND 0.00500				
1,2,3-Trichloropropane		ND 0.00500				
1,2,4-Trichlorobenzene		ND 0.00500				
1,2,4-Trimethylbenzene		ND 0.00500				
1,2-Dibromo-3-Chloropropane		ND 0.00500				
1,2-Dibromoethane		ND 0.00500				
1,2-Dichlorobenzene		ND 0.00500				
1,2-Dichloroethane		ND 0.00500				
1,2-Dichloropropane		ND 0.00500				
1,3,5-Trimethylbenzene		ND 0.00500				
1,3-Dichlorobenzene		ND 0.00500				
1,3-Dichloropropane		ND 0.00500				
1,4-Dichlorobenzene		ND 0.00500				
2,2-Dichloropropane		ND 0.00500				
2-Chlorotoluene		ND 0.00500				
4-Chlorotoluene		ND 0.00500				
Benzene		ND 0.00500				
Bromobenzene		ND 0.00500				

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Brent Barron II
Odessa Laboratory Manager



Certificate of Analysis Summary 428923

Frontier Field Services, Maljamar, NM

Project Name: Playa Lake Discharge

Project Id:

Contact: Steve Maker

Project Location: Maljamar, NM

Date Received in Lab: Tue Oct-04-11 03:40 pm

Report Date: 14-OCT-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	428923-001				
	Field Id:	Playa Lake Discharge				
	Depth:					
	Matrix:	WATER				
VOAs by SW-846 8260B SUB: E871002	Sampled:	Oct-04-11 12:20				
	Extracted:	Oct-12-11 11:21				
	Analyzed:	Oct-12-11 12:58				
	Units/RL:	mg/L RL				
Bromochloromethane		ND 0.00500				
Bromodichloromethane		ND 0.00500				
Bromoform		0.00534 0.00500				
Bromomethane		ND 0.00500				
Carbon Tetrachloride		ND 0.00500				
Chlorobenzene		ND 0.00500				
Chloroethane		ND 0.0100				
Chloroform		ND 0.00500				
Chloromethane		ND 0.0100				
cis-1,2-Dichloroethene		ND 0.00500				
cis-1,3-Dichloropropene		ND 0.00500				
Dibromochloromethane		ND 0.00500				
Dibromomethane		ND 0.00500				
Dichlorodifluoromethane		ND 0.00500				
Ethylbenzene		ND 0.00500				
Hexachlorobutadiene		ND 0.00500				
isopropylbenzene		ND 0.00500				
m,p-Xylenes		ND 0.0100				
Methylene Chloride		ND 0.00500				
MTBE		ND 0.00500				
Naphthalene		ND 0.0100				
n-Butylbenzene		ND 0.00500				
n-Propylbenzene		ND 0.00500				
o-Xylene		ND 0.00500				
p-Cymene (p-Isopropyltoluene)		ND 0.00500				

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Brent Barron II
Odessa Laboratory Manager



Certificate of Analysis Summary 428923

Frontier Field Services, Maljamar, NM

Project Name: Playa Lake Discharge



Project Id:

Contact: Steve Maker

Project Location: Maljamar, NM

Date Received in Lab: Tue Oct-04-11 03:40 pm

Report Date: 14-OCT-11

Project Manager: Brent Barron II

Analysis Requested	Lab Id:	428923-001					
	Field Id:	Playa Lake Discharge					
	Depth:						
	Matrix:	WATER					
	Sampled:	Oct-04-11 12:20					
VOAs by SW-846 8260B SUB: E871002	Extracted:	Oct-12-11 11:21					
	Analyzed:	Oct-12-11 12:58					
	Units/RL:	mg/L RL					
Sec-Butylbenzene		ND 0.00500					
Styrene		ND 0.00500					
tert-Butylbenzene		ND 0.00500					
Tetrachloroethylene		ND 0.00500					
Toluene		ND 0.00500					
trans-1,2-dichloroethene		ND 0.00500					
trans-1,3-dichloropropene		ND 0.00500					
Trichloroethene		ND 0.00500					
Trichlorofluoromethane		ND 0.00500					
Vinyl Chloride		ND 0.00200					

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Brent Barron II
Odessa Laboratory Manager



Flagging Criteria

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

BRL Below Reporting Limit.

RL Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation.

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(432) 563-1800	(432) 563-1713
(770) 449-8800	(770) 449-5477
(602) 437-0330	



Form 2 - Surrogate Recoveries

Project Name: Playa Lake Discharge

Work Orders : 428923,

Project ID:

Lab Batch #: 872283

Sample: 428923-001 / SMP

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/12/11 12:58

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0477	0.0500	95	74-124	
Dibromofluoromethane	0.0440	0.0500	88	75-131	
1,2-Dichloroethane-D4	0.0470	0.0500	94	63-144	
Toluene-D8	0.0483	0.0500	97	80-117	

Lab Batch #: 872283

Sample: 612648-1-BLK / BLK

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/12/11 12:14

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0475	0.0500	95	74-124	
Dibromofluoromethane	0.0453	0.0500	91	75-131	
1,2-Dichloroethane-D4	0.0485	0.0500	97	63-144	
Toluene-D8	0.0484	0.0500	97	80-117	

Lab Batch #: 872283

Sample: 612648-1-BKS / BKS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/12/11 18:27

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0454	0.0500	91	74-124	
Dibromofluoromethane	0.0475	0.0500	95	75-131	
1,2-Dichloroethane-D4	0.0448	0.0500	90	63-144	
Toluene-D8	0.0478	0.0500	96	80-117	

Lab Batch #: 872283

Sample: 428923-001 S / MS

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/12/11 13:20

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0466	0.0500	93	74-124	
Dibromofluoromethane	0.0472	0.0500	94	75-131	
1,2-Dichloroethane-D4	0.0465	0.0500	93	63-144	
Toluene-D8	0.0478	0.0500	96	80-117	

* 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: Playa Lake Discharge

Work Orders : 428923,

Lab Batch #: 872283

Sample: 428923-001 SD / MSD

Project ID:

Batch: 1 Matrix: Water

Units: mg/L

Date Analyzed: 10/12/11 13:42

SURROGATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
4-Bromofluorobenzene	0.0467	0.0500	93	74-124	
Dibromofluoromethane	0.0483	0.0500	97	75-131	
1,2-Dichloroethane-D4	0.0477	0.0500	95	63-144	
Toluene-D8	0.0486	0.0500	97	80-117	

* 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: Playa Lake Discharge

Work Order #: 428923

Project ID:

Lab Batch #: 872283

Sample: 612648-1-BKS

Matrix: Water

Date Analyzed: 10/12/2011

Date Prepared: 10/12/2011

Analyst: CYE

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
1,1,1,2-Tetrachloroethane	<0.00500	0.0500	0.0576	115	75-125	
1,1,1-Trichloroethane	<0.00500	0.0500	0.0512	102	75-125	
1,1,2,2-Tetrachloroethane	<0.00500	0.0500	0.0425	85	50-130	
1,1,2-Trichloroethane	<0.00500	0.0500	0.0476	95	75-127	
1,1-Dichloroethane	<0.00500	0.0500	0.0473	95	60-130	
1,1-Dichloroethene	<0.00500	0.0500	0.0528	106	59-172	
1,1-Dichloropropene	<0.00500	0.0500	0.0492	98	75-125	
1,2,3-Trichlorobenzene	<0.00500	0.0500	0.0515	103	75-137	
1,2,3-Trichloropropane	<0.00500	0.0500	0.0421	84	75-125	
1,2,4-Trichlorobenzene	<0.00500	0.0500	0.0529	106	75-135	
1,2,4-Trimethylbenzene	<0.00500	0.0500	0.0521	104	75-125	
1,2-Dibromo-3-Chloropropane	<0.00500	0.0500	0.0402	80	59-125	
1,2-Dibromoethane	<0.00500	0.0500	0.0475	95	73-125	
1,2-Dichlorobenzene	<0.00500	0.0500	0.0513	103	75-125	
1,2-Dichloroethane	<0.00500	0.0500	0.0477	95	68-127	
1,2-Dichloropropane	<0.00500	0.0500	0.0466	93	74-125	
1,3,5-Trimethylbenzene	<0.00500	0.0500	0.0535	107	70-125	
1,3-Dichlorobenzene	<0.00500	0.0500	0.0526	105	75-125	
1,3-Dichloropropane	<0.00500	0.0500	0.0472	94	75-125	
1,4-Dichlorobenzene	<0.00500	0.0500	0.0527	105	75-125	
2,2-Dichloropropane	<0.00500	0.0500	0.0536	107	60-140	
2-Chlorotoluene	<0.00500	0.0500	0.0524	105	73-125	
4-Chlorotoluene	<0.00500	0.0500	0.0496	99	74-125	
Benzene	<0.00500	0.0500	0.0489	98	66-142	
Bromobenzene	<0.00500	0.0500	0.0511	102	60-130	
Bromochloromethane	<0.00500	0.0500	0.0485	97	73-125	
Bromodichloromethane	<0.00500	0.0500	0.0506	101	75-125	
Bromoform	<0.00500	0.0500	0.0462	92	75-125	
Bromomethane	<0.00500	0.0500	0.0528	106	70-130	
Carbon Tetrachloride	<0.00500	0.0500	0.0535	107	62-125	
Chlorobenzene	<0.00500	0.0500	0.0527	105	60-133	
Chloroethane	<0.0100	0.0500	0.0475	95	70-130	
Chloroform	<0.00500	0.0500	0.0463	93	74-125	

Blank Spike Recovery [D] = $100 * [C] / [B]$

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

BRL - Below Reporting Limit



Blank Spike Recovery



Project Name: Playa Lake Discharge

Work Order #: 428923

Project ID:

Lab Batch #: 872283

Sample: 612648-1-BKS

Matrix: Water

Date Analyzed: 10/12/2011

Date Prepared: 10/12/2011

Analyst: CYE

Reporting Units: mg/L

Batch #: 1

BLANK /BLANK SPIKE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Blank Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Control Limits %R	Flags
Chloromethane	<0.0100	0.0500	0.0416	83	70-130	
cis-1,2-Dichloroethene	<0.00500	0.0500	0.0492	98	60-130	
cis-1,3-Dichloropropene	<0.00500	0.0500	0.0526	105	60-140	
Dibromochloromethane	<0.00500	0.0500	0.0523	105	60-130	
Dibromomethane	<0.00500	0.0500	0.0466	93	69-127	
Dichlorodifluoromethane	<0.00500	0.0500	0.0519	104	70-130	
Ethylbenzene	<0.00500	0.0500	0.0525	105	75-125	
Hexachlorobutadiene	<0.00500	0.0500	0.0517	103	75-125	
isopropylbenzene	<0.00500	0.0500	0.0544	109	75-125	
m,p-Xylenes	<0.0100	0.100	0.109	109	75-125	
Methylene Chloride	0.00650	0.0500	0.0461	92	75-125	
MTBE	<0.00500	0.0500	0.0500	100	75-125	
Naphthalene	<0.0100	0.0500	0.0519	104	65-135	
n-Butylbenzene	<0.00500	0.0500	0.0514	103	75-125	
n-Propylbenzene	<0.00500	0.0500	0.0542	108	75-125	
o-Xylene	<0.00500	0.0500	0.0549	110	75-125	
p-Cymene (p-Isopropyltoluene)	<0.00500	0.0500	0.0546	109	75-125	
Sec-Butylbenzene	<0.00500	0.0500	0.0525	105	75-125	
Styrene	<0.00500	0.0500	0.0554	111	60-130	
tert-Butylbenzene	<0.00500	0.0500	0.0535	107	75-125	
Tetrachloroethylene	<0.00500	0.0500	0.0567	113	60-130	
Toluene	<0.00500	0.0500	0.0514	103	59-139	
trans-1,2-dichloroethene	<0.00500	0.0500	0.0509	102	60-130	
trans-1,3-dichloropropene	<0.00500	0.0500	0.0502	100	66-125	
Trichloroethene	<0.00500	0.0500	0.0536	107	62-137	
Trichlorofluoromethane	<0.00500	0.0500	0.0527	105	67-125	
Vinyl Chloride	<0.00200	0.0500	0.0479	96	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: Playa Lake Discharge

Work Order #: 428923

Analyst: 4150

Date Prepared: 10/11/2011

Project ID:

Date Analyzed: 10/12/2011

Lab Batch ID: 872142

Sample: 612487-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP Mercury by SW 7470A	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
Mercury	<0.0100	0.0250	0.0256	102	0.0250	0.0256	102	0	75-125	20	

Analyst: 4150

Date Prepared: 10/10/2011

Date Analyzed: 10/10/2011

Lab Batch ID: 871973

Sample: 612449-1-BKS

Batch #: 1

Matrix: Water

Units: mg/L

BLANK / BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY

TCLP RCRA Metals by SW-846 1311/6010C	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
Arsenic	<0.0200	2.00	2.09	105	2.00	2.10	105	0	80-120	20	
Barium	<0.100	2.00	1.90	95	2.00	1.90	95	0	80-120	20	
Cadmium	<0.0100	2.00	1.96	98	2.00	1.95	98	1	80-120	20	
Chromium	<0.100	2.00	1.91	96	2.00	1.90	95	1	80-120	20	
Lead	<0.0200	2.00	1.91	96	2.00	1.91	96	0	80-120	20	
Selenium	<0.0200	2.00	2.13	107	2.00	2.10	105	1	80-120	20	
Silver	<0.100	2.00	1.88	94	2.00	1.88	94	0	80-120	20	

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 / MSD Recoveries

Project Name: Playa Lake Discharge

Work Order #: 428923

Project ID:

Lab Batch ID: 872142

QC- Sample ID: 428923-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 10/12/2011

Date Prepared: 10/11/2011

Analyst: 4150

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP Mercury by SW 7470A Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Mercury	<0.0100	0.0250	0.0262	105	0.0250	0.0258	103	2	75-125	20	

Lab Batch ID: 871973

QC- Sample ID: 428133-001 S

Batch #: 1 Matrix: Sludge

Date Analyzed: 10/10/2011

Date Prepared: 10/10/2011

Analyst: 4150

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

TCLP RCRA Metals by SW-846 1311/6010C Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Arsenic	<0.0200	2.00	2.07	104	2.00	2.09	105	1	80-120	20	
Barium	2.00	2.00	3.85	93	2.00	3.91	96	2	80-120	20	
Cadmium	<0.0100	2.00	1.91	96	2.00	1.91	96	0	80-120	20	
Chromium	<0.100	2.00	1.89	95	2.00	1.89	95	0	80-120	20	
Lead	<0.0200	2.00	1.88	94	2.00	1.87	94	1	80-120	20	
Selenium	<0.0200	2.00	2.06	103	2.00	2.08	104	1	80-120	20	
Silver	<0.100	2.00	1.88	94	2.00	1.89	95	1	80-120	20	

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 Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: Playa Lake Discharge

Work Order #: 428923

Project ID:

Lab Batch ID: 872283

QC- Sample ID: 428923-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 10/12/2011

Date Prepared: 10/12/2011

Analyst: CYE

Reporting Units: mg/L

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
1,1,1,2-Tetrachloroethane	<0.00500	0.0500	0.0605	121	0.0500	0.0619	124	2	75-125	20	
1,1,1-Trichloroethane	<0.00500	0.0500	0.0543	109	0.0500	0.0547	109	1	75-125	20	
1,1,2,2-Tetrachloroethane	<0.00500	0.0500	0.0480	96	0.0500	0.0520	104	8	50-130	31	
1,1,2-Trichloroethane	<0.00500	0.0500	0.0513	103	0.0500	0.0536	107	4	75-127	20	
1,1-Dichloroethane	<0.00500	0.0500	0.0528	106	0.0500	0.0527	105	0	60-130	20	
1,1-Dichloroethene	<0.00500	0.0500	0.0519	104	0.0500	0.0532	106	2	59-172	22	
1,1-Dichloropropene	<0.00500	0.0500	0.0518	104	0.0500	0.0522	104	1	75-125	20	
1,2,3-Trichlorobenzene	<0.00500	0.0500	0.0564	113	0.0500	0.0576	115	2	75-137	20	
1,2,3-Trichloropropane	<0.00500	0.0500	0.0488	98	0.0500	0.0519	104	6	75-125	20	
1,2,4-Trichlorobenzene	<0.00500	0.0500	0.0570	114	0.0500	0.0568	114	0	75-135	20	
1,2,4-Trimethylbenzene	<0.00500	0.0500	0.0564	113	0.0500	0.0558	112	1	75-125	20	
1,2-Dibromo-3-Chloropropane	<0.00500	0.0500	0.0473	95	0.0500	0.0543	109	14	59-125	28	
1,2-Dibromoethane	<0.00500	0.0500	0.0510	102	0.0500	0.0560	112	9	73-125	20	
1,2-Dichlorobenzene	<0.00500	0.0500	0.0552	110	0.0500	0.0553	111	0	75-125	20	
1,2-Dichloroethane	<0.00500	0.0500	0.0520	104	0.0500	0.0533	107	2	68-127	20	
1,2-Dichloropropane	<0.00500	0.0500	0.0501	100	0.0500	0.0479	96	4	74-125	20	
1,3,5-Trimethylbenzene	<0.00500	0.0500	0.0573	115	0.0500	0.0565	113	1	70-125	20	
1,3-Dichlorobenzene	<0.00500	0.0500	0.0563	113	0.0500	0.0564	113	0	75-125	20	
1,3-Dichloropropane	<0.00500	0.0500	0.0526	105	0.0500	0.0539	108	2	75-125	20	
1,4-Dichlorobenzene	<0.00500	0.0500	0.0566	113	0.0500	0.0564	113	0	75-125	20	
2,2-Dichloropropane	<0.00500	0.0500	0.0548	110	0.0500	0.0573	115	4	60-140	20	
2-Chlorotoluene	<0.00500	0.0500	0.0567	113	0.0500	0.0555	111	2	73-125	20	
4-Chlorotoluene	<0.00500	0.0500	0.0529	106	0.0500	0.0524	105	1	74-125	20	

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

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

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

ND = Not Detected, J = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not

ApplicableN = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: Playa Lake Discharge

Work Order #: 428923

Project ID:

Lab Batch ID: 872283

QC- Sample ID: 428923-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 10/12/2011

Date Prepared: 10/12/2011

Analyst: CYE

Reporting Units: mg/L

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Benzene	<0.00500	0.0500	0.0514	103	0.0500	0.0508	102	1	66-142	21	
Bromobenzene	<0.00500	0.0500	0.0533	107	0.0500	0.0548	110	3	60-130	20	
Bromochloromethane	<0.00500	0.0500	0.0527	105	0.0500	0.0556	111	5	73-125	20	
Bromodichloromethane	<0.00500	0.0500	0.0569	114	0.0500	0.0569	114	0	75-125	20	
Bromoform	0.00534	0.0500	0.0599	109	0.0500	0.0654	120	9	75-125	20	
Bromomethane	<0.00500	0.0500	0.0421	84	0.0500	0.0415	83	1	70-130	20	
Carbon Tetrachloride	<0.00500	0.0500	0.0565	113	0.0500	0.0576	115	2	62-125	20	
Chlorobenzene	<0.00500	0.0500	0.0554	111	0.0500	0.0552	110	0	60-133	21	
Chloroethane	<0.0100	0.0500	0.0382	76	0.0500	0.0377	75	1	70-130	20	
Chloroform	<0.00500	0.0500	0.0508	102	0.0500	0.0505	101	1	74-125	20	
Chloromethane	<0.0100	0.0500	0.0308	62	0.0500	0.0299	60	3	70-130	20	X
cis-1,2-Dichloroethene	<0.00500	0.0500	0.0527	105	0.0500	0.0533	107	1	60-130	20	
cis-1,3-Dichloropropene	<0.00500	0.0500	0.0575	115	0.0500	0.0579	116	1	60-140	20	
Dibromochloromethane	<0.00500	0.0500	0.0591	118	0.0500	0.0625	125	6	60-130	20	
Dibromomethane	<0.00500	0.0500	0.0528	106	0.0500	0.0541	108	2	69-127	23	
Dichlorodifluoromethane	<0.00500	0.0500	0.0370	74	0.0500	0.0348	70	6	70-130	23	
Ethylbenzene	<0.00500	0.0500	0.0540	108	0.0500	0.0533	107	1	75-125	20	
Hexachlorobutadiene	<0.00500	0.0500	0.0572	114	0.0500	0.0551	110	4	75-125	20	
isopropylbenzene	<0.00500	0.0500	0.0552	110	0.0500	0.0552	110	0	75-125	20	
m,p-Xylenes	<0.0100	0.100	0.113	113	0.100	0.113	113	0	75-125	20	
Methylene Chloride	<0.00500	0.0500	0.0489	98	0.0500	0.0502	100	3	75-125	35	
MTBE	<0.00500	0.0500	0.0588	118	0.0500	0.0626	125	6	75-125	20	
Naphthalene	<0.0100	0.0500	0.0584	117	0.0500	0.0615	123	5	65-135	20	

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 Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Form 3 - MS / MSD Recoveries

Project Name: Playa Lake Discharge

Work Order #: 428923

Project ID:

Lab Batch ID: 872283

QC- Sample ID: 428923-001 S

Batch #: 1 Matrix: Water

Date Analyzed: 10/12/2011

Date Prepared: 10/12/2011

Analyst: CYE

Reporting Units: mg/L

VOAs by SW-846 8260B Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	Spiked Sample %R [D]	Spike Added [E]	Duplicate Spiked Sample Result [F]	Spiked Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
n-Butylbenzene	<0.00500	0.0500	0.0554	111	0.0500	0.0532	106	4	75-125	20	
n-Propylbenzene	<0.00500	0.0500	0.0577	115	0.0500	0.0568	114	2	75-125	20	
o-Xylene	<0.00500	0.0500	0.0582	116	0.0500	0.0585	117	1	75-125	20	
p-Cymene (p-Isopropyltoluene)	<0.00500	0.0500	0.0583	117	0.0500	0.0575	115	1	75-125	20	
Sec-Butylbenzene	<0.00500	0.0500	0.0570	114	0.0500	0.0554	111	3	75-125	20	
Styrene	<0.00500	0.0500	0.0564	113	0.0500	0.0571	114	1	60-130	51	
tert-Butylbenzene	<0.00500	0.0500	0.0575	115	0.0500	0.0568	114	1	75-125	20	
Tetrachloroethylene	<0.00500	0.0500	0.0576	115	0.0500	0.0576	115	0	60-130	20	
Toluene	<0.00500	0.0500	0.0541	108	0.0500	0.0530	106	2	59-139	21	
trans-1,2-dichloroethene	<0.00500	0.0500	0.0516	103	0.0500	0.0520	104	1	60-130	20	
trans-1,3-dichloropropene	<0.00500	0.0500	0.0545	109	0.0500	0.0580	116	6	66-125	20	
Trichloroethene	<0.00500	0.0500	0.0554	111	0.0500	0.0536	107	3	62-137	24	
Trichlorofluoromethane	<0.00500	0.0500	0.0460	92	0.0500	0.0442	88	4	67-125	20	
Vinyl Chloride	<0.00200	0.0500	0.0376	75	0.0500	0.0366	73	3	75-125	20	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, I = Present Below Reporting Limit, B = Present in Blank, NR = Not Requested, I = Interference, NA = Not Applicable
N = See Narrative, EQL = Estimated Quantitation Limit



Sample Duplicate Recovery



Project Name: Playa Lake Discharge

Work Order #: 428923

Lab Batch #: 872142

Date Analyzed: 10/12/2011 11:30

Date Prepared: 10/11/2011

Project ID:

Analyst: 4150

QC- Sample ID: 428923-001 D

Batch #: 1

Matrix: Water

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TCLP Mercury by SW 7470A	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Mercury	<0.0100	<0.0100	0	20	U

Lab Batch #: 871973

Date Analyzed: 10/10/2011 16:21

Date Prepared: 10/10/2011

Analyst: 4150

QC- Sample ID: 428133-001 D

Batch #: 1

Matrix: Sludge

Reporting Units: mg/L

SAMPLE / SAMPLE DUPLICATE RECOVERY					
TCLP RCRA Metals by SW-846 1311/6010C	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Arsenic	<0.0200	<0.0200	0	20	U
Barium	2.00	2.08	4	20	
Cadmium	<0.0100	<0.0100	0	20	U
Chromium	<0.100	<0.100	0	20	U
Lead	<0.0200	<0.0200	0	20	U
Selenium	<0.0200	<0.0200	0	20	U
Silver	<0.100	<0.100	0	20	U

Spike Relative Difference RPD $200 * |(B-A)/(B+A)|$

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

BRL - Below Reporting Limit



XENCO Laboratories
Atlanta, Boca Raton, Corpus Christi, Dallas
Houston, Miami, Odessa, Philadelphia
Phoenix, San Antonio, Tampa

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

Prelogin / Nonconformance Report - Sample Log-In

Client: Frontier Field
Date/Time: 10-4-11 15:40
Lab ID #: 428923
Initials: AE

Sample Receipt Checklist

1. Samples on ice?	Blue	<u>Water</u>	No	
2. Shipping container in good condition?	<u>Yes</u>	No	None	
3. Custody seals intact on shipping container (cooler) and bottles?	Yes	No	<u>N/A</u>	
4. Chain of Custody present?	<u>Yes</u>	No		
5. Sample instructions complete on chain of custody?	<u>Yes</u>	No		
6. Any missing / extra samples?	Yes	<u>No</u>		
7. Chain of custody signed when relinquished / received?	<u>Yes</u>	No		
8. Chain of custody agrees with sample label(s)?	<u>Yes</u>	No		
9. Container labels legible and intact?	<u>Yes</u>	No		
10. Sample matrix / properties agree with chain of custody?	<u>Yes</u>	No		
11. Samples in proper container / bottle?	<u>Yes</u>	No		
12. Samples properly preserved?	<u>Yes</u>	No	N/A	
13. Sample container intact?	<u>Yes</u>	No		
14. Sufficient sample amount for indicated test(s)?	<u>Yes</u>	No		
15. All samples received within sufficient hold time?	<u>Yes</u>	No		
16. Subcontract of sample(s)?	<u>Yes</u>	No	N/A	
17. VOC sample have zero head space?	<u>Yes</u>	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs 1.6 °C	lbs °C	lbs °C	lbs °C	lbs °C

Nonconformance Documentation

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

Regarding: _____

Corrective Action Taken: _____

Check all that apply: ☐ Cooling process has begun shortly after sampling event and out of temperature condition acceptable by NELAC 5.5.8.3.1.a.1.
☐ Initial and Backup Temperature confirm out of temperature conditions
☐ Client understands and would like to proceed with analysis



Maljamar Gas Plant

Monthly R.O. Discharge to Playa Lake

Date	Meter Reading	Gallons per Month	Barrels per Month	Cumulative BBL
	2,020,150			
January 1, 2011	2,052,140	31,990	762	762
February 1, 2011	2,104,790	52,650	1,254	2,015
March 1, 2011	2,115,510	10,720	255	2,270
April 1, 2011	2,144,630	29,120	693	2,964
May 1, 2011	2,172,210	27,580	657	3,620
June 1, 2011	2,214,040	41,830	996	4,616
July 1, 2011	2,230,290	16,250	387	5,003
August 1, 2011	2,251,590	21,300	507	5,510
September 1, 2011	2,272,080	20,490	488	5,998
October 1, 2011	2,292,130	20,050	477	6,476
November 1, 2011		-2,292,130	-54,575	-48,099
December 1, 2011		0	0	-48,099
January 1, 2012		0	0	-48,099
February 1, 2012		0	0	-48,099
March 1, 2012		0	0	-48,099
April 1, 2012		0	0	-48,099
May 1, 2012		0	0	-48,099
June 1, 2012		0	0	-48,099
July 1, 2012		0	0	-48,099
August 1, 2012		0	0	-48,099
September 1, 2012		0	0	-48,099
October 1, 2012		0	0	-48,099
November 1, 2012		0	0	-48,099
December 1, 2012		0	0	-48,099
January 1, 2013		0	0	-48,099
February 1, 2013		0	0	-48,099
March 1, 2013		0	0	-48,099
April 1, 2013		0	0	-48,099
May 1, 2013		0	0	-48,099
June 1, 2013		0	0	-48,099
July 1, 2013		0	0	-48,099
August 1, 2013		0	0	-48,099
September 1, 2013		0	0	-48,099
October 1, 2013		0	0	-48,099
November 1, 2013		0	0	-48,099
December 1, 2013		0	0	-48,099

[illegible]



Maljamar Gas Plant

Monthly R.O. Discharge to Playa Lake

Date	Meter Reading	Gallons per Month	Barrels per Month	Cumulative BBL	Monthly Average BBL
	1,675,630				
January 1, 2008	1,692,520	16,890	402	402	402
February 1, 2008	1,706,260	13,740	327	729	365
March 1, 2008	1,717,150	10,890	259	989	330
April 1, 2008	1,728,120	10,970	261	1,250	312
May 1, 2008	1,738,570	10,450	249	1,499	300
June 1, 2008	1,749,340	10,770	256	1,755	293
July 1, 2008	1,757,990	8,650	206	1,961	280
August 1, 2008	1,767,130	9,140	218	2,179	272
September 1, 2008	1,775,220	8,090	193	2,371	263
October 1, 2008	1,783,210	7,990	190	2,561	256
November 1, 2008	1,792,890	9,680	230	2,792	216
December 1, 2008	1,802,190	9,300	221	3,013	251
January 1, 2009	1,811,620	9,430	225	3,238	249
February 1, 2009	1,820,000	8,380	200	3,437	246
March 1, 2009	1,828,090	8,090	193	3,630	242
April 1, 2009	1,836,620	8,530	203	3,833	240
May 1, 2009	1,843,990	7,370	175	4,009	236
June 1, 2009	1,851,580	7,590	181	4,189	233
July 1, 2009	1,858,420	6,840	163	4,352	229
August 1, 2009	1,865,690	7,270	173	4,525	226
September 1, 2009	1,873,070	7,380	176	4,701	224
October 1, 2008	1,879,520	6,450	154	4,855	221
November 1, 2009	1,886,990	7,470	178	5,032	219
December 1, 2009	1,895,650	8,660	206	5,239	218
January 1, 2010	1,903,990	8,340	199	5,437	217
February 1, 2010	1,914,384	10,394	247	5,685	219
March 1, 2010	1,921,680	7,296	174	5,858	217
April 1, 2010	1,929,840	8,160	194	6,053	216
May 1, 2010	1,940,500	10,660	254	6,306	217
June 1, 2010	1,948,150	7,650	182	6,489	216
July 1, 2010	1,955,840	7,690	183	6,672	215
August 1, 2010	1,968,006	12,166	290	6,961	218
September 1, 2010	1,980,240	12,234	291	7,253	220
October 1, 2010	1,990,010	9,770	233	7,485	220
November 1, 2010	2,000,940	10,930	260	7,745	221
December 1, 2010	2,020,154	19,214	457	8,203	228