

Analytical Report 395606

for
Conoco Phillips

Project Manager: Jet Brown

MCA # 480

03-NOV-10



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

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

Xenco-Atlanta (EPA Lab Code: GA00046):

Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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

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

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

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

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

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

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



03-NOV-10

Project Manager: **Jet Brown**
Conoco Phillips
4001 Penbrook
Odessa, TX 79762

Reference: XENCO Report No: **395606**
MCA # 480
Project Address: Lea County, NM

Jet Brown:

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 395606. 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. 395606 will be filed for 60 days, and after that time they will be properly disposed without further notice, unless otherwise arranged with you. We reserve the right to return to you any unused samples, extracts or solutions related to them if we consider so necessary (e.g., samples identified as hazardous waste, sample sizes exceeding analytical standard practices, controlled substances under regulated protocols, etc).

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

Respectfully,

Brent Barron, II
Odessa Laboratory Manager

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

Sample Cross Reference 395606**Conoco Phillips, Odessa, TX**

MCA # 480

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS3-003 5'	S	Nov-01-10 10:00	0 - 5 ft	395606-001
GS3-003 6'	S	Nov-01-10 10:05	0 - 6 ft	395606-002
GS3-003 7'	S	Nov-01-10 10:10	0 - 7 ft	395606-003
GS3-003 8'	S	Nov-01-10 10:15	0 - 8 ft	395606-004
GS5-003 5'	S	Nov-01-10 10:40	0 - 5 ft	395606-005
GS5-003 6'	S	Nov-01-10 10:45	0 - 6 ft	395606-006
GS5-003 7'	S	Nov-01-10 10:50	0 - 7 ft	395606-007
GS5-003 8'	S	Nov-01-10 10:55	0 - 8 ft	395606-008
GSP-001 2'	S	Nov-01-10 11:10	0 - 2 ft	395606-009
GSP-001 3'	S	Nov-01-10 11:15	0 - 3 ft	395606-010
GSP-001 4'	S	Nov-01-10 11:20	0 - 4 ft	395606-011
GSP-001 5'	S	Nov-01-10 11:25	0 - 5 ft	395606-012
GSP-001 6'	S	Nov-01-10 11:30	0 - 6 ft	395606-013
GSP-001 7'	S	Nov-01-10 11:35	0 - 7 ft	395606-014
GSP-001 8'	S	Nov-01-10 11:40	0 - 8 ft	395606-015



CASE NARRATIVE

Client Name: Conoco Phillips

Project Name: MCA # 480



Project ID:

Work Order Number: 395606

Report Date: 03-NOV-10

Date Received: 11/02/2010

Sample receipt non conformances and Comments:

None

Sample receipt Non Conformances and Comments per Sample:

None



Certificate of Analysis Summary 395606

Conoco Phillips, Odessa, TX
Project Name: MCA # 480



Project Id:

Contact: Jet Brown

Project Location: Lea County, NM

Date Received in Lab: Tue Nov-02-10 10:07 am

Report Date: 03-NOV-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	395606-001	395606-002	395606-003	395606-004	395606-005	395606-006
	Field Id:	GS3-003 5'	GS3-003 6'	GS3-003 7'	GS3-003 8'	GS3-003 5'	GS3-003 6'
	Depth:	0-5 ft	0-6 ft	0-7 ft	0-8 ft	0-5 ft	0-6 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Nov-01-10 10:00	Nov-01-10 10:05	Nov-01-10 10:10	Nov-01-10 10:15	Nov-01-10 10:40	Nov-01-10 10:45
Anions by E300	Extracted:						
	Analyzed:	Nov-02-10 19:50	Nov-02-10 19:50	Nov-02-10 19:50	Nov-02-10 19:50	Nov-02-10 19:50	Nov-02-10 19:50
	Units/RL:	mg/kg RL 4.41	mg/kg RL ND 4.37	mg/kg RL 10.6 4.36	mg/kg RL 25.2 4.40	mg/kg RL 641 9.13	mg/kg RL 756 9.31
Percent Moisture	Extracted:						
	Analyzed:	Nov-02-10 17:00	Nov-02-10 17:00	Nov-02-10 17:00	Nov-02-10 17:00	Nov-02-10 17:00	Nov-02-10 17:00
	Units/RL:	% RL 4.74 1.00	% RL 3.99 1.00	% RL 3.72 1.00	% RL 4.50 1.00	% RL 8.01 1.00	% RL 9.82 1.00
Percent Moisture							

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 395606

Conoco Phillips, Odessa, TX
Project Name: MCA # 480



Project Id:
Contact: Jet Brown
Project Location: Lea County, NM

Date Received in Lab: Tue Nov-02-10 10:07 am
Report Date: 03-NOV-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	395606-007	395606-008	395606-009	395606-010	395606-011	395606-012
	Field Id:	GSS-003 7'	GSS-003 8'	GSP-001 2'	GSP-001 3'	GSP-001 4'	GSP-001 5'
	Depth:	0-7 ft	0-8 ft	0-2 ft	0-3 ft	0-4 ft	0-5 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
Anions by E300	Sampled:	Nov-01-10 10:50	Nov-01-10 10:55	Nov-01-10 11:10	Nov-01-10 11:15	Nov-01-10 11:20	Nov-01-10 11:25
	Extracted:						
	Analyzed:	Nov-02-10 19:50	Nov-02-10 19:50	Nov-02-10 19:50	Nov-02-10 19:50	Nov-02-10 19:50	Nov-02-10 19:50
	Units/RL:	mg/kg RL 674 9.23	mg/kg RL 14.1 4.63	mg/kg RL ND 4.32	mg/kg RL ND 4.32	mg/kg RL ND 4.38	mg/kg RL ND 4.38
Percent Moisture	Extracted:						
	Analyzed:	Nov-02-10 17:00	Nov-02-10 17:00	Nov-02-10 17:00	Nov-02-10 17:00	Nov-02-10 17:00	Nov-02-10 17:00
	Units/RL:	% RL 9.02 1.00	% RL 9.38 1.00	% RL 2.70 1.00	% RL 2.75 1.00	% RL 4.03 1.00	% RL 4.11 1.00
	Percent Moisture						

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 395606

Conoco Phillips, Odessa, TX
Project Name: MCA # 480



Project Id:

Contact: Jet Brown

Project Location: Lea County, NM

Date Received in Lab: Tue Nov-02-10 10:07 am

Report Date: 03-NOV-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	395606-013	395606-014	395606-015	
	Field Id:	GSP-001 6'	GSP-001 7'	GSP-001 8'	
	Depth:	0-6 ft	0-7 ft	0-8 ft	
	Matrix:	SOIL	SOIL	SOIL	
	Sampled:	Nov-01-10 11:30	Nov-01-10 11:35	Nov-01-10 11:40	
Anions by E300	Extracted:				
	Analyzed:	Nov-02-10 19:50	Nov-02-10 19:50	Nov-02-10 19:50	
	Units/RL:	mg/kg RL 18.3 4.37	mg/kg RL 8.87 4.36	mg/kg RL 9.34 4.35	
Percent Moisture	Extracted:				
	Analyzed:	Nov-02-10 17:00	Nov-02-10 17:00	Nov-02-10 17:00	
	Units/RL:	% RL 3.97 1.00	% RL 3.61 1.00	% RL 3.34 1.00	
Percent Moisture					

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

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5332 Blackberry Drive, San Antonio TX 78238
2505 North Falkenburg Rd, Tampa, FL 33619
5757 NW 158th St, Miami Lakes, FL 33014
12600 West I-20 East, Odessa, TX 79765
842 Cantwell Lane, Corpus Christi, TX 78408

Phone	Fax
(281) 240-4200	(281) 240-4280
(214) 902 0300	(214) 351-9139
(210) 509-3334	(210) 509-3335
(813) 620-2000	(813) 620-2033
(305) 823-8500	(305) 823-8555
(432) 563-1800	(432) 563-1713
(361) 884-0371	(361) 884-9116



BS / BSD Recoveries



Project Name: MCA # 480

Work Order #: 395606

Analyst: LATCOR

Lab Batch ID: 830236

Sample: 830236-1-BKS

Units: mg/kg

Date Prepared: 11/02/2010

Batch #: 1

Project ID:

Date Analyzed: 11/02/2010

Matrix: Solid

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Analytes	Anions by E300										
	Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
	ND	10.0	10.2	102	10	10.2	102	0	75-125	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 Recoveries

Project Name: MCA # 480



Work Order #: 395606

Lab Batch #: 830236

Date Analyzed: 11/02/2010

Date Prepared: 11/02/2010

Project ID:

Analyst: LATCOR

QC- Sample ID: 395606-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	105	114	109	75-125	

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

BRL - Below Reporting Limit

Project Name: MCA # 480

Work Order #: 395606

Lab Batch #: 830236

Date Analyzed: 11/02/2010

QC- Sample ID: 395606-001 D

Reporting Units: mg/kg

Date Prepared: 11/02/2010

Batch #: 1

Project ID:

Analyst: LATCOR

Matrix: Soil

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

Lab Batch #: 830222

Date Analyzed: 11/02/2010

QC- Sample ID: 395575-002 D

Reporting Units: %

Date Prepared: 11/02/2010

Batch #: 1

Analyst: JLG

Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	1.48	1.55	5	20	

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

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

BRL - Below Reporting Limit

Xenco Laboratories

The Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Manager: Jet Brown

Company Name

Conoco Phillips

Company Address: 4001 Penbrook St.

City/State/Zip:

Odessa, TX 79762

Telephone No:

432-638-0509

Sampler Signature: [Signature]

Fax No:

e-mail: Kristi-brunette@yahoo.com
Jet.R.Brown@conocophillips.com

Project Name:

MCA # 480

Project #:

Project Loc:

Lea County, NM

PO #:

STAYLOK

Report Format:

☒ Standard

☐ TRRP

☐ NPDES

ORDER #

395606

LAB # (lab use only)		FIELD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Matrix	Preservation & # of Containers	Other (Specify)	DW=Drinking Water GW=Groundwater SL=Sludge	NP=Non-Potable Specify Other	TPH: 418.1 8015M 8015B	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (pre-schedule) 24, 48, 72 hrs
01	G53-003 5'	0	5'	11-1-10	10:00AM				Soil																
02	G53-003 6'	0	6'		10:05AM																				
03	G53-003 7'	0	7'		10:10AM																				
04	G53-003 8'	0	8'		10:15AM																				
05	G55-003 5'	0	5'		10:40AM																				
06	G55-003 6'	0	6'		10:45AM																				
07	G55-003 7'	0	7'		10:50AM																				
08	G55-003 8'	0	8'		10:55AM																				
09	GSP-001 2'	0	2'		11:10AM																				
10	GSP-001 3'	0	3'		11:15AM																				

Special Instructions:

Relinquished by:	<u>[Signature]</u>	Date	11-2-10	Time	10:07AM	Received by:		Date		Time	
Relinquished by:		Date		Time		Received by:		Date		Time	
Relinquished by:		Date		Time		Received by: ELLOT:	<u>Andrea Elam</u>	Date	11-2-10	Time	10:07

Laboratory Comments:	
Y	NAD
Quality seal on containers?	
Y	N
Sample Hand Delivered?	
Y	N
By courier?	
Y	N
Temperature Upon Receipt	
40.2 °C	1.0



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: Conoco Phillips
Date/Time: 11.2.10 10.07
Lab ID #: 3956006
Initials: AZE

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)?	Yes	No	<u>N/A</u>	
17. VOC sample have zero head space?	Yes	No	<u>N/A</u>	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No.	Cooler 5 No.
lbs <u>1.6</u> °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

10/19/10

Analytical Report 392818

for
Conoco Phillips

Project Manager: Jet Brown

MCA # 480

11-OCT-10



Celebrating 20 Years of commitment to excellence in Environmental Testing Services



12600 West I-20 East Odessa, Texas 79765

Xenco-Houston (EPA Lab code: TX00122):

Texas (T104704215-10-6-TX), Arizona (AZ0738), Arkansas (08-039-0), Connecticut (PH-0102), Florida (E871002)
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Rhode Island (LAO00312), USDA (S-44102)

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Florida (E87429), North Carolina (483), South Carolina (98015), Utah (AALI1), West Virginia (362), Kentucky (85)
Louisiana (04176), USDA (P330-07-00105)

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

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

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

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

Xenco-Corpus Christi (EPA Lab code: TX02613): Texas (T104704370)

Xenco-Boca Raton (EPA Lab Code: FL01273):

Florida(E86240),South Carolina(96031001), Louisiana(04154), Georgia(917)
North Carolina(444), Texas(T104704468-TX), Illinois(002295), Florida(E86349)

Xenco Phoenix (EPA Lab Code: AZ00901):

Arizona(AZ0757), California(06244CA), Texas(104704435-10-2), Nevada(NAC-445A), DoD(65816)

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

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



11-OCT-10

Project Manager: **Jet Brown**

Conoco Phillips

4001 Penbrook

Odessa, TX 79762

Reference: XENCO Report No: **392818**

MCA # 480

Project Address: Lea County, NM

Jet Brown:

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 392818. 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.

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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 392818**Conoco Phillips, Odessa, TX**

MCA # 480

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
GS1-001 2'	S	Oct-05-10 12:00	0 - 4 ft	392818-001
GS1-001 3'	S	Oct-05-10 12:05	0 - 4 ft	392818-002
GS1-001 4'	S	Oct-05-10 12:10	0 - 4 ft	392818-003
GS2-001 2'	S	Oct-05-10 12:30	0 - 4 ft	392818-004
GS2-001 3'	S	Oct-05-10 12:35	0 - 4 ft	392818-005
GS2-001 4'	S	Oct-05-10 12:40	0 - 4 ft	392818-006
GS3-001 2'	S	Oct-05-10 13:00	0 - 4 ft	392818-007
GS3-001 3'	S	Oct-05-10 13:05	0 - 4 ft	392818-008
GS3-001 4'	S	Oct-05-10 13:10	0 - 4 ft	392818-009
GS4-001 2'	S	Oct-05-10 15:00	0 - 4 ft	392818-010
GS4-001 3'	S	Oct-05-10 15:05	0 - 4 ft	392818-011
GS4-001 4'	S	Oct-05-10 15:10	0 - 4 ft	392818-012
GS5-001 2'	S	Oct-05-10 16:30	0 - 4 ft	392818-013
GS5-001 3'	S	Oct-05-10 16:35	0 - 4 ft	392818-014
GS5-001 4'	S	Oct-05-10 16:40	0 - 4 ft	392818-015



CASE NARRATIVE

Client Name: Conoco Phillips

Project Name: MCA # 480



Project ID:

Work Order Number: 392818

Report Date: 11-OCT-10

Date Received: 10/07/2010

Sample receipt non conformances and Comments:

None

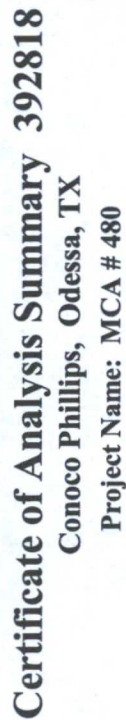
Sample receipt Non Conformances and Comments per Sample:

None

Analytical Non Conformances and Comments:

Batch: LBA-826738 BTEX by EPA 8021B
SW8021BM

Batch 826738, 4-Bromofluorobenzene recovered below QC limits Data not confirmed by re-analysis. Samples affected are: 575584-1-BLK.



Contact: Jet Brown

Date Received in Lab: Thu Oct-07-10 11:55 am

Project Location: Lea County, NM

Report Date: 11-OCT-10

Project Manager: Brent Barron, II

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Brent Barron, II
Odessa Laboratory Manager



Certificate of Analysis Summary 392818

Conoco Phillips, Odessa, TX
Project Name: MCA # 480



Project Id:

Contact: Jet Brown

Project Location: Lea County, NM

Date Received in Lab: Thu Oct-07-10 11:55 am

Report Date: 11-OCT-10

Project Manager: Brent Barron, II

Analysis Requested	Lab Id:	392818-007	392818-008	392818-009	392818-010	392818-011	392818-012
	Field Id:	GS3-001 2'	GS3-001 3'	GS3-001 4'	GS4-001 2'	GS4-001 3'	GS4-001 4'
	Depth:	0-4 ft	0-4 ft	0-4 ft	0-4 ft	0-4 ft	0-4 ft
	Matrix:	SOIL	SOIL	SOIL	SOIL	SOIL	SOIL
	Sampled:	Oct-05-10 13:00	Oct-05-10 13:05	Oct-05-10 13:10	Oct-05-10 15:00	Oct-05-10 15:05	Oct-05-10 15:10
Anions by E300	Extracted:						
	Analyzed:	Oct-07-10 13:58	Oct-07-10 13:58	Oct-07-10 13:58	Oct-07-10 13:58	Oct-07-10 13:58	Oct-07-10 13:58
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
		373 8.98	1350 22.7	1910 23.1	867 18.3	544 9.02	231 9.00
BTEX by EPA 8021B	Extracted:	Oct-07-10 16:00	Oct-07-10 16:00	Oct-07-10 16:00	Oct-07-10 16:00	Oct-07-10 16:00	Oct-07-10 16:00
	Analyzed:	Oct-08-10 06:37	Oct-08-10 07:00	Oct-08-10 07:23	Oct-08-10 07:46	Oct-08-10 09:43	Oct-08-10 10:05
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
		ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011	ND 0.0011
Percent Moisture	Extracted:						
	Analyzed:	Oct-07-10 17:00	Oct-07-10 17:00	Oct-07-10 17:00	Oct-07-10 17:00	Oct-07-10 17:00	Oct-07-10 17:00
	Units/RL:	% RL	% RL	% RL	% RL	% RL	% RL
		6.50 1.00	7.34 1.00	9.12 1.00	8.15 1.00	6.90 1.00	6.68 1.00
TPH By SW8015 Mod	Extracted:	Oct-07-10 13:45	Oct-07-10 13:45	Oct-07-10 13:45	Oct-07-10 13:45	Oct-07-10 13:45	Oct-07-10 13:45
	Analyzed:	Oct-08-10 02:42	Oct-08-10 03:02	Oct-08-10 03:23	Oct-08-10 03:43	Oct-08-10 04:25	Oct-08-10 04:44
	Units/RL:	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL	mg/kg RL
		ND 16.0	ND 16.1	ND 16.4	ND 16.2	ND 16.1	ND 16.0
C6-C12 Gasoline Range Hydrocarbons		ND 16.0	ND 16.1	ND 16.4	ND 16.2	ND 16.1	ND 16.0
C12-C28 Diesel Range Hydrocarbons		ND 16.0	ND 16.1	ND 16.4	ND 16.2	ND 16.1	ND 16.0
C28-C35 Oil Range Hydrocarbons		ND 16.0	ND 16.1	ND 16.4	ND 16.2	ND 16.1	ND 16.0
Total TPH		ND 16.0	ND 16.1	ND 16.4	ND 16.2	ND 16.1	ND 16.0

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Brent Barron, II
Odessa Laboratory Manager

Certificate of Analysis Summary 392818

Conoco Phillips, Odessa, TX

Project Name: MCA # 480



Project Id:
Contact: Jet Brown
Project Location: Lea County, NM

Date Received in Lab: Thu Oct-07-10 11:55 am
Report Date: 11-OCT-10
Project Manager: Brent Barron, II

<i>Analysis Requested</i>		Lab Id:	392818-013	392818-014	392818-015
		Field Id:	GS5-001 2'	GS5-001 3'	GS5-001 4'
		Depth:	0-4 ft	0-4 ft	0-4 ft
		Matrix:	SOIL	SOIL	SOIL
		Sampled:	Oct-05-10 16:30	Oct-05-10 16:35	Oct-05-10 16:40
Anions by E300		Extracted:			
		Analyzed:	Oct-07-10 13:58	Oct-07-10 13:58	Oct-07-10 13:58
		Units/RL:	mg/kg RL 4180 46.1	mg/kg RL 3300 47.8	mg/kg RL 1470 23.8
BTEX by EPA 8021B		Extracted:	Oct-07-10 16:00	Oct-07-10 16:00	Oct-07-10 16:00
		Analyzed:	Oct-08-10 10:29	Oct-08-10 10:52	Oct-08-10 11:15
		Units/RL:	mg/kg RL ND 0.0011	mg/kg RL ND 0.0011	mg/kg RL ND 0.0011
Benzene			ND 0.0011	ND 0.0011	ND 0.0011
Toluene			ND 0.0022	ND 0.0023	ND 0.0023
Ethylbenzene			ND 0.0011	ND 0.0011	ND 0.0011
m,p-Xylenes			ND 0.0022	ND 0.0023	ND 0.0023
o-Xylene			ND 0.0011	ND 0.0011	ND 0.0011
Total Xylenes			ND 0.0011	ND 0.0011	ND 0.0011
Total BTEX			ND 0.0011	ND 0.0011	ND 0.0011
Percent Moisture		Extracted:			
		Analyzed:	Oct-07-10 17:00	Oct-07-10 17:00	Oct-07-10 17:00
		Units/RL:	% RL 8.92 1.00	% RL 12.1 1.00	% RL 11.8 1.00
Percent Moisture					
TPH By SW8015 Mod		Extracted:	Oct-07-10 13:45	Oct-07-10 13:45	Oct-07-10 13:45
		Analyzed:	Oct-08-10 05:04	Oct-08-10 05:25	Oct-08-10 05:46
		Units/RL:	mg/kg RL ND 16.6	mg/kg RL ND 17.0	mg/kg RL ND 17.0
C6-C12 Gasoline Range Hydrocarbons			ND 16.6	ND 17.0	ND 17.0
C12-C28 Diesel Range Hydrocarbons			ND 16.6	ND 17.0	ND 17.0
C28-C35 Oil Range Hydrocarbons			ND 16.6	ND 17.0	ND 17.0
Total TPH			ND 16.6	ND 17.0	ND 17.0

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

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



Form 2 - Surrogate Recoveries

Project Name: MCA # 480

Work Orders : 392818,

Project ID:

Lab Batch #: 826695

Sample: 575551-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/08/10 02:22

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B 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	0.0321	0.0300	107	80-120	

Lab Batch #: 826695

Sample: 575551-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/08/10 02:45

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B 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	0.0303	0.0300	101	80-120	

Lab Batch #: 826695

Sample: 575551-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/08/10 03:55

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B 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	0.0287	0.0300	96	80-120	

Lab Batch #: 826695

Sample: 392818-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 04:41

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0282	0.0300	94	80-120	
4-Bromofluorobenzene	0.0311	0.0300	104	80-120	

Lab Batch #: 826695

Sample: 392818-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 05:27

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1,4-Difluorobenzene	0.0274	0.0300	91	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.

Form 2 - Surrogate Recoveries

Project Name: MCA # 480

Work Orders : 392818,

Project ID:

Lab Batch #: 826695

Sample: 392818-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 05:51

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0285	0.0300	95	80-120	
4-Bromofluorobenzene	0.0315	0.0300	105	80-120	

Lab Batch #: 826695

Sample: 392818-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 06:14

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0286	0.0300	95	80-120	
4-Bromofluorobenzene	0.0331	0.0300	110	80-120	

Lab Batch #: 826695

Sample: 392818-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 06:37

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0277	0.0300	92	80-120	
4-Bromofluorobenzene	0.0309	0.0300	103	80-120	

Lab Batch #: 826695

Sample: 392818-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 07:00

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0281	0.0300	94	80-120	
4-Bromofluorobenzene	0.0318	0.0300	106	80-120	

Lab Batch #: 826695

Sample: 392818-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 07:23

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes					
1,4-Difluorobenzene	0.0280	0.0300	93	80-120	
4-Bromofluorobenzene	0.0314	0.0300	105	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: MCA # 480

Work Orders : 392818,

Project ID:

Lab Batch #: 826695

Sample: 392818-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 07:46

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0276	0.0300	92	80-120	
4-Bromofluorobenzene		0.0307	0.0300	102	80-120	

Lab Batch #: 826695

Sample: 392818-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 09:43

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0281	0.0300	94	80-120	
4-Bromofluorobenzene		0.0328	0.0300	109	80-120	

Lab Batch #: 826695

Sample: 392818-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 10:05

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0280	0.0300	93	80-120	
4-Bromofluorobenzene		0.0320	0.0300	107	80-120	

Lab Batch #: 826695

Sample: 392818-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 10:29

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0278	0.0300	93	80-120	
4-Bromofluorobenzene		0.0308	0.0300	103	80-120	

Lab Batch #: 826695

Sample: 392818-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 10:52

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0280	0.0300	93	80-120	
4-Bromofluorobenzene		0.0315	0.0300	105	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: MCA # 480

Work Orders : 392818,

Project ID:

Lab Batch #: 826695

Sample: 392818-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 11:15

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0282	0.0300	94	80-120	
4-Bromofluorobenzene		0.0321	0.0300	107	80-120	

Lab Batch #: 826738

Sample: 575584-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/08/10 18:48

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0302	0.0300	101	80-120	
4-Bromofluorobenzene		0.0301	0.0300	100	80-120	

Lab Batch #: 826738

Sample: 575584-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/08/10 19:11

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0304	0.0300	101	80-120	
4-Bromofluorobenzene		0.0303	0.0300	101	80-120	

Lab Batch #: 826738

Sample: 575584-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/08/10 19:34

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0263	0.0300	88	80-120	
4-Bromofluorobenzene		0.0165	0.0300	55	80-120	*

Lab Batch #: 826738

Sample: 392818-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 19:58

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0275	0.0300	92	80-120	
4-Bromofluorobenzene		0.0279	0.0300	93	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: MCA # 480

Work Orders : 392818,

Project ID:

Lab Batch #: 826738

Sample: 392818-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 20:21

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0277	0.0300	92	80-120	
4-Bromofluorobenzene		0.0299	0.0300	100	80-120	

Lab Batch #: 826738

Sample: 392818-001 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 23:49

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0305	0.0300	102	80-120	
4-Bromofluorobenzene		0.0325	0.0300	108	80-120	

Lab Batch #: 826738

Sample: 392818-001 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/09/10 00:12

SURROGATE RECOVERY STUDY

BTEX by EPA 8021B		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1,4-Difluorobenzene		0.0302	0.0300	101	80-120	
4-Bromofluorobenzene		0.0316	0.0300	105	80-120	

Lab Batch #: 826580

Sample: 575500-1-BKS / BKS

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/07/10 23:38

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		73.4	101	73	70-135	
o-Terphenyl		41.1	50.3	82	70-135	

Lab Batch #: 826580

Sample: 575500-1-BSD / BSD

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/07/10 23:58

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod		Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
Analytes						
1-Chlorooctane		72.5	100	73	70-135	
o-Terphenyl		35.6	50.1	71	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: MCA # 480

Work Orders : 392818,

Project ID:

Lab Batch #: 826580

Sample: 575500-1-BLK / BLK

Batch: 1 Matrix: Solid

Units: mg/kg

Date Analyzed: 10/08/10 00:18

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.6	100	72	70-135	
o-Terphenyl	38.1	50.2	76	70-135	

Lab Batch #: 826580

Sample: 392818-001 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 00:39

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.1	99.5	73	70-135	
o-Terphenyl	36.4	49.8	73	70-135	

Lab Batch #: 826580

Sample: 392818-002 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 01:00

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.6	99.5	73	70-135	
o-Terphenyl	36.3	49.8	73	70-135	

Lab Batch #: 826580

Sample: 392818-003 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 01:20

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.5	99.5	74	70-135	
o-Terphenyl	38.5	49.8	77	70-135	

Lab Batch #: 826580

Sample: 392818-004 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 01:41

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	70.3	99.9	70	70-135	
o-Terphenyl	36.5	50.0	73	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: MCA # 480

Work Orders : 392818,

Project ID:

Lab Batch #: 826580

Sample: 392818-005 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 02:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.0	100	71	70-135	
o-Terphenyl	35.4	50.0	71	70-135	

Lab Batch #: 826580

Sample: 392818-006 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 02:21

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.1	100	76	70-135	
o-Terphenyl	39.0	50.1	78	70-135	

Lab Batch #: 826580

Sample: 392818-007 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 02:42

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.2	99.5	72	70-135	
o-Terphenyl	37.3	49.8	75	70-135	

Lab Batch #: 826580

Sample: 392818-008 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 03:02

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.1	99.6	71	70-135	
o-Terphenyl	36.5	49.8	73	70-135	

Lab Batch #: 826580

Sample: 392818-009 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 03:23

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	69.8	99.5	70	70-135	
o-Terphenyl	36.3	49.8	73	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: MCA # 480

Work Orders : 392818,

Project ID:

Lab Batch #: 826580

Sample: 392818-010 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 03:43

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.0	99.5	76	70-135	
o-Terphenyl	39.9	49.8	80	70-135	

Lab Batch #: 826580

Sample: 392818-011 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 04:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.9	100	72	70-135	
o-Terphenyl	37.8	50.0	76	70-135	

Lab Batch #: 826580

Sample: 392818-012 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 04:44

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	74.5	99.8	75	70-135	
o-Terphenyl	39.0	49.9	78	70-135	

Lab Batch #: 826580

Sample: 392818-013 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 05:04

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	76.2	101	75	70-135	
o-Terphenyl	40.1	50.3	80	70-135	

Lab Batch #: 826580

Sample: 392818-014 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 05:25

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	72.5	99.6	73	70-135	
o-Terphenyl	38.3	49.8	77	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: MCA # 480

Work Orders : 392818,

Project ID:

Lab Batch #: 826580

Sample: 392818-015 / SMP

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 05:46

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.3	99.9	71	70-135	
o-Terphenyl	37.6	50.0	75	70-135	

Lab Batch #: 826580

Sample: 392818-015 S / MS

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 06:06

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	71.7	100	72	70-135	
o-Terphenyl	40.8	50.1	81	70-135	

Lab Batch #: 826580

Sample: 392818-015 SD / MSD

Batch: 1 Matrix: Soil

Units: mg/kg

Date Analyzed: 10/08/10 06:27

SURROGATE RECOVERY STUDY

TPH By SW8015 Mod Analytes	Amount Found [A]	True Amount [B]	Recovery %R [D]	Control Limits %R	Flags
1-Chlorooctane	73.9	101	73	70-135	
o-Terphenyl	36.6	50.3	73	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.

Project Name: MCA # 480
Work Order #: 392818
Analyst: BRB
Lab Batch ID: 826695
Sample: 575551-1-BKS
Batch #: 1
Date Prepared: 10/07/2010
Project ID:
Date Analyzed: 10/08/2010
Matrix: Solid
Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY											
Units: mg/kg											
Analytes	BTEX by EPA 8021B										
	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	0.1144	114	0.1	0.1065	107	7	70-130	35
	Toluene	ND	0.1000	0.1165	117	0.1	0.1074	107	8	70-130	35
	Ethylbenzene	ND	0.1000	0.1131	113	0.1	0.1052	105	7	71-129	35
	m,p-Xylenes	ND	0.2000	0.2307	115	0.2	0.2149	107	7	70-135	35
	o-Xylene	ND	0.1000	0.1152	115	0.1	0.1071	107	7	71-133	35

Analyst: BRB
Date Prepared: 10/08/2010
Date Analyzed: 10/08/2010
Lab Batch ID: 826738
Sample: 575584-1-BKS
Batch #: 1
Matrix: Solid
Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY													
Units: mg/kg	BTEX by EPA 8021B	Analytes	Blank Sample Result	Spike Added	Blank Spike Result	Blank Spike %R	Spike Added	Blank Spike Duplicate Result	Blk. Spk Dup. %R	RPD %	Control Limits %R	Control Limits %RPD	Flag
			[A]	[B]	[C]	[D]	[E]	[F]	[G]				
			ND	0.1000	0.1159	116	0.1	0.1122	112	3	70-130	35	
			ND	0.1000	0.1178	118	0.1	0.1139	114	3	70-130	35	
			ND	0.1000	0.1176	118	0.1	0.1137	114	3	71-129	35	
			ND	0.2000	0.2406	120	0.2	0.2328	116	3	70-135	35	
			ND	0.1000	0.1151	115	0.1	0.1127	113	2	71-133	35	

$$\text{Relative Percent Difference RPD} = 200 * [(C-F)/(C+F)]$$

$$\text{Blank Spike Recovery [D]} = 100 * (C/[B])$$

$$\text{Blank Spike Duplicate Recovery [G]} = 100 * (F/[E])$$

All results are based on MDL and Validated for QC Purposes

Project Name: MCA # 480
Work Order #: 392818
Analyst: LATCOR
Lab Batch ID: 826555
Sample: 826555-1-BKS
Date Prepared: 10/07/2010
Batch #: 1
Project ID:
Date Analyzed: 10/07/2010
Matrix: Solid
Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY													
Units: mg/kg													
Analytes	Anions by E300		Blank Sample Result [A]	Spike Added [B]	Blank Spike Result [C]	Blank Spike %R [D]	Spike Added [E]	Blank Spike Duplicate Result [F]	Blk. Spk Dup. %R [G]	RPD %	Control Limits %R	Control Limits %RPD	Flag
Chloride			ND	10.0	11.0	110	10	10.9	109	1	75-125	20	

Analyst: BEV
Lab Batch ID: 826580
Sample: 575500-1-BKS
Date Prepared: 10/07/2010
Batch #: 1
Date Analyzed: 10/07/2010
Matrix: Solid
Units: mg/kg

BLANK /BLANK SPIKE / BLANK SPIKE DUPLICATE RECOVERY STUDY												
TPH By SW8015 Mod		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
Analytes		C6-C12 Gasoline Range Hydrocarbons	ND	1010	1040	103	1000	1040	104	0	70-135	35
		C12-C28 Diesel Range Hydrocarbons	ND	1010	1000	99	1000	951	95	5	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: MCA # 480



Work Order #: 392818

Lab Batch #: 826555

Date Analyzed: 10/07/2010

Date Prepared: 10/07/2010

Project ID:

Analyst: LATCOR

QC- Sample ID: 392818-001 S

Batch #: 1

Matrix: Soil

Reporting Units: mg/kg

MATRIX / MATRIX SPIKE RECOVERY STUDY

Inorganic Anions by EPA 300 Analytes	Parent Sample Result [A]	Spike Added [B]	Spiked Sample Result [C]	%R [D]	Control Limits %R	Flag
Chloride	ND	106	113	107	75-125	

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

BRL - Below Reporting Limit

Project Name: MCA # 480

Work Order #: 392818

Lab Batch ID: 826738

Date Analyzed: 10/08/2010

Reporting Units: mg/kg

Project ID:

QC- Sample ID: 392818-001 S Batch #: 1 Matrix: Soil

Date Prepared: 10/08/2010 Analyst: BRB

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

BTEX by EPA 8021B 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	ND	0.1063	0.1027	97	0.1063	0.1013	95	1	70-130	35	
Toluene	ND	0.1063	0.1027	97	0.1063	0.1008	95	2	70-130	35	
Ethylbenzene	ND	0.1063	0.1011	95	0.1063	0.0996	94	1	71-129	35	
m,p-Xylenes	ND	0.2125	0.2088	98	0.2125	0.2048	96	2	70-135	35	
o-Xylene	ND	0.1063	0.1037	98	0.1063	0.1018	96	2	71-133	35	

Lab Batch ID: 826580

Date Analyzed: 10/08/2010

Reporting Units: mg/kg

QC- Sample ID: 392818-015 S Batch #: 1 Matrix: Soil

Date Prepared: 10/07/2010 Analyst: BEV

MATRIX SPIKE / MATRIX SPIKE DUPLICATE RECOVERY STUDY

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	1140	1060	93	1140	1100	96	4	70-135	35	
C12-C28 Diesel Range Hydrocarbons	ND	1140	971	85	1140	1030	90	6	70-135	35	

Matrix Spike Percent Recovery $[D] = 100 \times (C-A)/B$
Relative Percent Difference $RPD = 200 \times |(C-F)/(C+F)|$

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

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

Project Name: MCA # 480
Work Order #: 392818
Lab Batch #: 826555
Date Analyzed: 10/07/2010
QC- Sample ID: 392818-001 D
Reporting Units: mg/kg
Date Prepared: 10/07/2010
Batch #: 1
Project ID:
Analyst: LATCOR
Matrix: Soil

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

Lab Batch #: 826553
Date Analyzed: 10/07/2010
QC- Sample ID: 392776-001 D
Reporting Units: %
Date Prepared: 10/07/2010
Batch #: 1
Analyst: WRU
Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	4.18	4.81	14	20	

Lab Batch #: 826554
Date Analyzed: 10/07/2010
QC- Sample ID: 392818-004 D
Reporting Units: %
Date Prepared: 10/07/2010
Batch #: 1
Analyst: WRU
Matrix: Soil

SAMPLE / SAMPLE DUPLICATE RECOVERY					
Percent Moisture	Parent Sample Result [A]	Sample Duplicate Result [B]	RPD	Control Limits %RPD	Flag
Analyte					
Percent Moisture	0.207	4.08	1	20	

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

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

BRL - Below Reporting Limit

Xenco Laboratories

The Environmental Lab of Texas

12600 West I-20 East
Odessa, Texas 79765

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

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

Project Manager:

Jet Brown

Company Name

ConocoPhillips

Company Address:

4001 Penbrook St.

City/State/Zip:

Odessa, TX 79762

Telephone No:

432-599-9384

Sampler Signature:

Kristi Brunette

Fax No:

e-mail: Kristi-brunette@yahoo.com

Report Format:

☒ Standard ☐ TRRP ☐ NPDES

Project Name:

MCA #480

Project #:

Lea County, NM

Project Loc:

STAYLOR

PO #:

STAYLOR

pg. 2 of 2

LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Preservation & # of Containers										Matrix	Analyze For:													
LAB # (lab use only)		FIELD CODE		Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers	Ice	HNO ₃	HCl	H ₂ SO ₄	NaOH	Na ₂ S ₂ O ₈	None	Other (Specify)	DW=Drinking Water SL=Sludge GW=Groundwater S=Soil/Solid	NP=Non-Potable Specify Other	TPH: 418.1 8015M	TPH: TX 1005 TX 1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO ₄ , Alkalinity)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/8030 or BTEX 8260	RCI	N.O.R.M.	RUSH TAT (Pre-Schedule) 24, 48, 72 hrs	Standard TAT		
11	GS4-001	3'	0	4"	10-5-10	3:05PM													Soil															
12	GS4-001	4'				3:10PM																												
13	GS5-001	2'				4:30PM																												
14	GS5-001	3'				4:35PM																												
15	GS5-001	4'				4:40PM																												

Special Instructions:			
Relinquished by:	Date	Time	Received by:
Kristi Brunette	10-7-10	11:55AM	
Relinquished by:	Date	Time	Received by:
Relinquished by:	Date	Time	Received by:

Laboratory Comments:	
YOC: 10-7-10	3.1
Sample Hand Delivered by Sampler/Client Rep?	
by Courier?	
Temperature Upon Receipt	3.1



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: Conoco Phillips
Date/Time: 10.7.10 11:55
Lab ID #: 392818
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	<u>Id written on lid</u>	
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)?	Yes	No	<u>N/A</u>	
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 3.1 °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