

Analytical/Report- 434596/& 434597	Sample Area	Sample:Date	Sample Type		BTEX	GRO	30.00	TOTAL	Chlorides
Comp-00.5	Release Area	1/5/2012	Comp/Shovel	6"	ND	ND	ND	ND	123

Site Ranking is Zero (0). Depth to Ground Water >100' (approx. 213', Section 24, T22S-R23E).

All results are ppm. Chlorides for documentation.  ${\bf X}$  - Sample Points

Released: 30 B/PW; Recovered: 15 B/PW. Release Date: 12/7/2011



Koonunga Hill BGX Federal #1 Water Line 30-015-26914

> Section 13, T22S-R25E Eddy County, NM

SAMPLE DIAGRAM (Not to Scale)

Prepared by Robert Asher Environmaental Regulatory Department

## **Analytical Report 434596**

for Yates Petroleum Corporation

Project Manager: Robert Asher
Koonunga Hill Water Line
30-015-34380

Collected By: Client

13-JAN-12



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

Xenco-Atlanta (EPA Lab Code: GA00046):

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

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





13-JAN-12

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 434596

Koonunga Hill Water Line Project Address: Eddy County

#### Robert Asher:

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 434596. 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. 434596 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 434596**



## Yates Petroleum Corporation, Artesia, NM

Koonunga Hill Water Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	01-05-12 10:44	6 - 6 In	434596-001

#### CASE NARRATIVE



Client Name: Yates Petroleum Corporation Project Name: Koonunga Hill Water Line



Project ID:

30-015-34380

Work Order Number: 434596

Report Date: 13-JAN-12 Date Received: 01/06/2012

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None

Analytical non nonformances and comments:

Batch: LBA-878739 BTEX by EPA 8021B

SW8021BM

Batch 878739, Benzene, Toluene RPD was outside QC limits.

Samples affected are: 434596-001

SW8021BM

Batch 878739, Benzene, Ethylbenzene, Toluene, m\_p-Xylenes, o-Xylene recovered below QC limits in the Matrix Spike and Matrix Spike Duplicate.

Samples affected are: 434596-001.

The Laboratory Control Sample for Toluene, Benzene, Ethylbenzene, m. p-Xylenes , o-Xylene is

within laboratory Control Limits

Batch: LBA-878929 TPH By SW8015B Mod

SW8015B NM

Batch 878929, o-Terphenyl recovered above QC limits Data confirmed by re-analysis. Samples

affected are: 616483-1-BKS,616483-1-BLK.



## Certificate of Analysis Summary 434596

#### Yates Petroleum Corporation, Artesia, NM



Project Id: 30-015-34380 Contact: Robert Asher

Project Location: Eddy County

Project Name: Koonunga Hill Water Line

Date Received in Lab: Fri Jan-06-12 09:40 am

Report Date: 13-JAN-12
Project Manager: Brent Barron II

Lab Id:	434596-001					
Field Id:	Comp-00.5					
Depth:	6-6 ln					
Matrix:	SOIL					
Sampled:	Jan-05-12 10.44					
Extracted:	Jan-09-12 10 01					
Analyzed:	Jan-09-12 12.52					
Units/RL:	mg/kg RL					
	ND 0 00113					
	ND 0 00226					
	ND 0 00113					
	ND 0.00226					
	ND 0 00113					
	ND 0.00113					
	ND 0.00113					
Extracted:						
Analyzed:	Jan-06-12 10:40					
Units/RL:	% RL					
	10.6 1.00					,
Extracted:	Jan-12-12 14.00					
Analyzed:	Jan-12-12 23.57					
Units/RL:	mg/kg RL					
	ND 168					
	ND 16.8					
	ND 16.8					
	Field Id: Depth: Matrix: Sampled: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Units/RL: Extracted: Analyzed: Analyzed:	Field Id: Comp-00.5  Depth: 6-6 ln  Matrix: SOIL  Sampled: Jan-05-12 10.44  Extracted: Jan-09-12 10 01  Analyzed: Jan-09-12 12.52  Units/RL: mg/kg RL  ND 0 00113  ND 0 00226  ND 0 00113  ND 0.00113  ND 0.00113  Extracted: Analyzed: Jan-06-12 10.40  Units/RL: % RL  10.6 1.00  Extracted: Jan-12-12 14.00  Analyzed: Jan-12-12 23.57  Units/RL: mg/kg RL  ND 16.8  ND 16.8	Field Id: Comp-00.5  Depth: 6-6 ln  Matrix: SOIL  Sampled: Jan-05-12 10.44  Extracted: Jan-09-12 10 01  Analyzed: Jan-09-12 12.52  Units/RL: mg/kg RL  ND 0 00113  ND 0 00226  ND 0 00113  ND 0.00126  ND 0.00113  ND 0.00113  Extracted: Analyzed: Jan-06-12 10·40  Units/RL: % RL  10.6 1.00  Extracted: Jan-12-12 14.00  Analyzed: Jan-12-12 23.57  Units/RL: mg/kg RL  ND 16.8  ND 16.8	Field Id: Comp-00.5  Depth: 6-6 ln  Matrix: SOIL  Sampled: Jan-05-12 10.44  Extracted: Jan-09-12 10 01  Analyzed: Jan-09-12 12.52  Units/RL: mg/kg RL  ND 0 00113  ND 0 00226  ND 0 00113  ND 0.00226  ND 0.00113  Extracted: Analyzed: Jan-06-12 10·40  Units/RL: % RL  10.6 1.00  Extracted: Jan-12-12 14.00  Analyzed: Jan-12-12 23.57  Units/RL: mg/kg RL  ND 16.8	Lab Id:       434596-001         Field Id:       Comp-00.5         Depth:       6-6 ln         Matrix:       SOIL         Sampled:       Jan-05-12 10.44         Extracted:       Jan-09-12 12.52         Units/RL:       mg/kg       RL         ND       0 00113       ND         ND       0 00226       ND         ND       0.0013       ND         ND       0.00113       ND         Extracted:       Analyzed:       Jan-06-12 10·40         Units/RL:       %       RL         10.6       1.00       Extracted:         Analyzed:       Jan-12-12 14.00       Analyzed:         Jan-12-12 23.57       Units/RL:       mg/kg       RL         ND       16.8       ND       16.8	Field Id:

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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Jobe The

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 quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \* Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation. ^ NELAC or State program does not offer Accreditation at this time.

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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
6017 Financial Drive, Norcross, GA 30071	(770) 449-8800	(770) 449-5477
3725 E Atlanta Ave, Phoenix, AZ 85040	(602) 437-0330	

Page 6 of 14 Final 1.000

## **Environmental Lab of Texas**

A Xenco Laboratories Company

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager: Robert Ashe	r			. <del> </del>												Pr	ojec	t Nai	ne:_	Ko	onu	ıng	а Н	iill '	Wa	ter	Lir	1e		!
	Company Name Yates Petrol	eum Corporat	ıon			<u> </u>												Pr	ojec	t #: _	30-0	15-3	3438	30							j
	Company Address: 105 South 4	th Street															1	Proje	ect L	oc: <u> </u>	Eddy	Cou	inty								
	City/State/Zip: Artesia, NM	88210				·													PC	) #: _	1056	32									
	Telephone No: <u>575-748-42</u> 1	17				Fax No:		575	-748	-466	2					F	Repo	t Fo	rmat	: [	× s	tand	lard			TR	RP	[	Ди	IPDES	S
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LAB # (lab use only)	FIELD CODE	2'-1	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	Field Filtered	Total # of Containers		HNO3			D <sub>3</sub>			r SL=Sludge	GW = Groundwater S=Soll/Solid NP=Non-Potable Specify Other	8015A	TPH TX 1005 TX 1006	Cations (Ca. Mg, Na, K)	Anions (Cl. SO4, Alkalınıty)	Cd Cr Pb Ho		Semivolatiles	BTEX 8021B/5030 or BTEX 8260	RCI	NORM	Chlorides		RUSH TAT (Pre-Schedule) 24, 48,	Standard TAT
<u></u>	Comp-00.5		6"	6"	1/5/2012	10:44 AM			х								s_	х							х		_	x	$\Box$		Х
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	ON SEPARATE REPORT  nstructions: TPH	8015R RT	EX 80°	21R &	Chlorides.	All results in	ma	/ka	Th	ank	VOL	上	Ь	L_	Ш	L		L_	Ч	Labo	orato	rv C	omn	ents	 s:					لل	Щ
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#### XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

## Prelogin / Nonconformance Report - Sample Log-In

Client: 445	Petroleur	1		•		
Date/Time:	12 9.	40				
Lab ID#:	434596/	434577				
Initials:	AC					
		Sample Receipt Cl	hecklist			
1. Samples on ice?			Blue	⊂Water	No	
2. Shipping container in	good condition?		Yes	No	None	
3. Custody seals intact o	n shipping container	(cooler) and bottles?	Yes	No	N/A	
4. Chain of Custody pres	ent?		< Yes	No		`
5. Sample instructions co	omplete on chain of	custody?	<b>∠Yeè</b>	No		
6. Any missing / extra sa	mples?		Yes	( No		
7. Chain of custody sign	ed when relinquished	d / received?	∕Yes	No		
8. Chain of custody agre	es with sample label	(s)?	Yes	No		
9. Container labels legib	le and intact?		, Yes	No		
10. Sample matrix / prop	erties agree with cha	in of custody?	(Yes)	No		
11. Samples in proper co	ontainer / bottle?		Yes)	No		
12. Samples properly pro	eserved?		Yes	No	N/A	
13. Sample container int	act?		(Yes)	No		
14. Sufficient sample am	ount for indicated te	st(s)?	Yes	No		
15. All samples received	within sufficient hole	d time?	(Yes)	No		
16. Subcontract of samp	le(s)?		Yes	No	(N/A')	
17. VOC sample have ze	ro head space?		(Yes)	No	N/A	
18. Cooler 1 No.	Cooler 2 No.	Cooler 3 No.	Cooler 4 No	).	Cooler 5 No.	
1bs 3.0 °C	lbs	°C lbs	°C lbs	0(	C lbs	°C
	No	onconformance Doc	umentation			
Contact:	Contacte	d by:		Date/Time:		
	Oonaca	u by	······································	Date: Time.		
Regarding:		ı				<del></del>
Corrective Action Taken	ı <b>:</b>					
					11	
						··········
Check all that apply:	Cooling process ha	s begun shortly after san	npling event and o	out of tempe	erature	
	congruon acc	eptable by NELAC 5.5.8.3	.T.a.T.			

□ Initial and Backup Temperature confirm out of temperature conditions

☐ Client understands and would like to proceed with analysis

## Analytical Report 434597

# for Yates Petroleum Corporation

Project Manager: Robert Asher Koonunga Hill Water Line 30-015-34380 13-JAN-12

Collected By: Client



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Xenco-Houston (EPA Lab code: TX00122):

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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)





13-JAN-12

Project Manager: Robert Asher Yates Petroleum Corporation 105 South Fourth St. Artesia, NM 88210

Reference: XENCO Report No: 434597

Koonunga Hill Water Line Project Address: Eddy County

#### Robert Asher:

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Odessa Laboratory Manager

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## **Sample Cross Reference 434597**



## Yates Petroleum Corporation, Artesia, NM

Koonunga Hill Water Line

Sample Id	Matrix	Date Collected	Sample Depth	Lab Sample Id
Comp-00.5	S	01-05-12 10:44	6 - 6 In	434597-001

#### CASE NARRATIVE

Client Name: Yates Petroleum Corporation

Project Name: Koonunga Hill Water Line



Project ID:

30-015-34380

Work Order Number: 434597

Report Date: 13-JAN-12

Date Received: 01/06/2012

**₹**727

Sample receipt non conformances and comments:

None

Sample receipt non conformances and comments per sample:

None



## Certificate of Analysis Summary 434597

#### Yates Petroleum Corporation, Artesia, NM



**Project Id:** 30-015-34380

Contact: Robert Asher

Project Location: Eddy County

Project Name: Koonunga Hill Water Line

Date Received in Lab: Fri Jan-06-12 09:40 am

Report Date: 13-JAN-12
Project Manager: Brent Barron II

				Project Manager:	Dient Banon ii	,
	Lab Id:	434597-001				
Analysis Paguastad	Field Id:	Comp-00 5				
Analysis Requested	Depth:	6-6 In				
	Matrix:	SOIL		}		
	Sampled:	Jan-05-12 10:44				
Anions by E300	Extracted:			,		
	Analyzed:	Jan-06-12 17:25				:
	Units/RL:	mg/kg RL				
Chlonde		123 4.70				
Percent Moisture	Extracted:					
	Analyzed:	Jan-06-12 10:40				
1	Units/RL:	% RL				·
Percent Moisture		10.6 1.00				

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## Flagging Criteria

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- J The target analyte was positively identified below the quantiation limit and above the detection limit.
- U Analyte was not detected.
- L The LCS data for this analytical batch was reported below the laboratory control limits for this analyte. The department supervisor and QA Director reviewed data. The samples were either reanalyzed or flagged as estimated concentrations.
- H The LCS data for this analytical batch was reported above the laboratory control limits. Supporting QC Data were reviewed by the Department Supervisor and QA Director. Data were determined to be valid for reporting.
- K Sample analyzed outside of recommended hold time.
- JN A combination of the "N" and the "J" qualifier. The analysis indicates that the analyte is "tentatively identified" and the associated numerical value may not be consistent with the amount actually present in the environmental sample.
- \* Surrogate recovered outside laboratory control limit.
- BRL Below Reporting Limit.
- **RL** Reporting Limit

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

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

DL Method Detection Limit

NC Non-Calculable

+ Outside XENCO's scope of NELAC Accreditation. ^ NELAC or State program does not offer Accreditation at this time.

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Final 1.000

## **Environmental Lab of Texas**

A Xenco Laboratories Company

#### CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

12600 West I-20 East Odessa, Texas 79765 Phone: 432-563-1800 Fax: 432-563-1713

	Project Manager:	Robert Asher				····-											Pı	ojec	t Na	me:	Ko	on	un	ga	Hill	Wa	ate	<u>r Li</u>	ne			
	Company Name	Yates Petroleum Corporati	on													-		Pı	ojec	t #: _	30-	015	-34:	380						<u>′</u>		
	Company Address:	105 South 4th Street														_		Proje	ect L	oc:	Edd	у Сс	ounty	<u>/</u>								
	City/State/Zip:	Artesia, NM 88210														_			PC	D #: _	105	632										
	Telephone No:	575-748-4217				Fax No:		575	-748	-466	32					F	Repo	rt Fo	rmal	::	х	Star	ndaro	d		TF	RRP			NPD	ES	
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LAB # (lab use only)	FIFE	LD CODE	Beginning Depth	Ending Depth	Date Sampled	Time Sampled	ield Filtered	Total # of Containers	lce	HNO <sub>3</sub>	- F	H <sub>2</sub> SO <sub>4</sub>	NaOH	Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> None	Other (Specify)		GW = Groundwater S=Soil/Solid	8015M	TX 1005	Cations (Ca. Mg, Na, K)	Anions (Cl, SO4, Alkalinity)	SAR / ESP / CEC	s Ag Ba Cd Cr Pb	Volatiles	Semivolatiles BTEX 80218/5030 or BTEX 8	RCI	N.O.R.M	Chlorides			KUSH IAI (Pre-Schedule) 2	Standard JAT
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#### XENCO Laboratories

Atlanta, Boca Raton, Corpus Christi, Dallas Houston, Miami, Odessa, Philadelphia Phoenix, San Antonio, Tampa Document Title: Sample Receipt Checklist

Document No.: SYS-SRC

Revision/Date: No. 01, 5/27/2010

Effective Date: 6/1/2010 Page 1 of 1

### Prelogin / Nonconformance Report - Sample Log-In

Client: 14ts	Petrolea	m				٠	•	
Date/Time:   (g)	12 9	.40	)					
Lab ID # :	4345961	42	4597					
Initials:	AC							
		Sa	ample Receipt C	hecki	list			
1. Samples on ice?					Blue	Water_	No	
2. Shipping container in	good condition?				Yes	No	None	
3. Custody seals intact o		ner (co	oler) and bottles?		(Yes)	No	N/A	
4. Chain of Custody pres	ent?				< Yes	No		
5. Sample instructions co	omplete on chain c	of cust	ody?		∠Yeè	No		
6. Any missing / extra sa	mples?				Yes	√ No		
7. Chain of custody sign	ed when relinquist	hed / re	eceived?		∕Yeş⁄	No		
8. Chain of custody agre	es with sample lab	ei(s)?	-		Yes	No		
9. Container labels legible	e and intact?				Yes	No _		
10. Sample matrix / prop	erties agree with c	hain of	f custody?		Yes	No		
11. Samples in proper co	ontainer / bottle?				Yes)	No		
12. Samples properly pre	served?				Yes	No	N/A	
13. Sample container int	act?				Yes	No		
14. Sufficient sample am	ount for indicated	test(s)	?		Yes	No		
15. All samples received	within sufficient h	old tin	ne?		(Yes)	No		
16. Subcontract of samp	le(s)?				Yes	No	(N/A)	
17. VOC sample have ze	ro head space?		·		Yes	No	N/A	
18. Cooler 1 No.	Cooler 2 No.		Cooler 3 No.		Cooler 4 No	)	Cooler 5 No.	
lbs 3.0 °c	lbs	°C	lbs	°c	ibs	°(	lbs	°C
	ł	Nonce	onformance Do	cume	ntation			
Contact:	Contac	ted by	*			Date/Time:		
		,a by	•			Date/ fille.		
Regarding:			<del></del>					
Corrective Action Taken	:							
Check all that apply:	Cooling process I	has be	gun shortly after sa ble by NELAC 5.5.8	mpling .3.1.a.1.	event and o	ut of tempe	rature	

□ Initial and Backup Temperature confirm out of temperature conditions

☐ Client understands and would like to proceed with analysis