Mountain States ACCUTEST LABORATORIES

03/05/12

Technical Report for

XTO Energy

FRU 297-32A

1108-12A

Accutest Job Number: D32210

Sampling Date: 02/24/12

Report to:

dknudson@krwconsulting.com

Total number of pages in report: **26**

ACCREDITED IN ACCORDANCE WITH nelac

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Brad Madadian
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO, ID, NE, NM, ND (R-027) (PW) UT (NELAP CO00049)

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Sample Summary

XTO Energy

Job No: D32210

FRU 297-32A
Project No: 1108-12A

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
D32210-1	02/24/12	09:30	CH	02/27/12	SO	Soil	CUT #1 M/B:DAYS 8&10(2/24)
D32210-2	02/24/12	09:40	CH	02/27/12	SO	Soil	CUT #1 M/B:DAY 9(2/23)

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

CASE NARRATIVE / CONFORMANCE SUMMARY

Client:	XTO Energy	**Job No**	D32210
Site:	FRU 297-32A	**Report Date**	3/1/2012 1:47:20 PM

On 02/27/2012, 2 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 4.5 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D32210 was assigned to the project. The lab sample IDs, client sample IDs, and date of sample collection are detailed in the report's Results Summary.

Specified quality control criteria were achieved for this job except as noted below. For more information, please refer to the analytical results and QC summary pages.

Volatiles by GCMS By Method SW846 8260B

Matrix AQ **Batch ID:** V5V1180

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.

Matrix SO **Batch ID:** V5V1180

- Sample(s) D32186-2MS, D32186-2MSD were used as the QC samples indicated.
- Sample(s) D32210-1 have surrogates outside control limits. Probable cause due to matrix interference.
- D32210-1 for 1,2-Dichloroethane-D4: Outside control limits. Since the bias is high and the sample is ND, no further action is required.

Volatiles by GC By Method SW846 8015B

Matrix SO **Batch ID:** GGB848

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D32208-1MS, D32208-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO **Batch ID:** OP5440

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D32208-1MS, D32208-1MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO **Batch ID:** GN13861

- The data for SM19 2540B M meets quality control requirements.

AMS certifies that data reported for samples received, listed on the associated custody chain or analytical task order, were produced to specifications meeting AMS's Quality System precision, accuracy and completeness objectives except as noted.

Estimated non-standard method measurement uncertainty data is available on request, based on quality control bias and implicit for standard methods. Acceptable uncertainty requires tested parameter quality control data to meet method criteria.

AMS is not responsible for data quality assumptions if partial reports are used and recommends that this report be used in its entirety. This report is authorized by AMS indicated via signature on the report cover.

Mountain States ACCUTEST LABORATORIES

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	CUT #1 M/B:DAYS 8&10(2/24)		
Lab Sample ID:	D32210-1	**Date Sampled:**	02/24/12
Matrix:	SO - Soil	**Date Received:**	02/27/12
Method:	SW846 8260B	**Percent Solids:**	86.9
Project:	FRU 297-32A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V19658.D	1	02/27/12	KV	n/a	n/a	V5V1180
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.01 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.065	0.029	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	96%		61-130%
460-00-4	4-Bromofluorobenzene	102%		53-131%
17060-07-0	1,2-Dichloroethane-D4	133% [a]		62-130%

(a) Outside control limits. Since the bias is high and the sample is ND, no further action is required.

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CUT #1 M/B:DAYS 8&10(2/24)		
Lab Sample ID:	D32210-1	**Date Sampled:**	02/24/12
Matrix:	SO - Soil	**Date Received:**	02/27/12
Method:	SW846 8015B	**Percent Solids:**	86.9
Project:	FRU 297-32A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB15098.D	1	02/27/12	SK	n/a	n/a	GGB848
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	9.39	13	6.5	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	98%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID: CUT #1 M/B:DAYS 8&10(2/24)
Lab Sample ID: D32210-1
Matrix: SO - Soil
Method: SW846-8015B SW846 3546
Project: FRU 297-32A

Date Sampled: 02/24/12
Date Received: 02/27/12
Percent Solids: 86.9

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH001749.D	1	02/28/12	TR	02/27/12	OP5440	GFH90
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	178	15	10	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	68%		43-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CUT #1 M/B:DAY 9(2/23)		
Lab Sample ID:	D32210-2	**Date Sampled:**	02/24/12
Matrix:	SO - Soil	**Date Received:**	02/27/12
Method:	SW846 8260B	**Percent Solids:**	91.5
Project:	FRU 297-32A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V19659.D	1	02/27/12	KV	n/a	n/a	V5V1180
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.01 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.059	0.026	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	89%		61-130%
460-00-4	4-Bromofluorobenzene	96%		53-131%
17060-07-0	1,2-Dichloroethane-D4	126%		62-130%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CUT #1 M/B:DAY 9(2/23)		
Lab Sample ID:	D32210-2	**Date Sampled:**	02/24/12
Matrix:	SO - Soil	**Date Received:**	02/27/12
Method:	SW846 8015B	**Percent Solids:**	91.5
Project:	FRU 297-32A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB15099.D	1	02/27/12	SK	n/a	n/a	GGB848
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.0 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	10.3	12	5.9	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	97%		60-140%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	CUT #1 M/B:DAY 9(2/23)		
Lab Sample ID:	D32210-2	**Date Sampled:**	02/24/12
Matrix:	SO - Soil	**Date Received:**	02/27/12
Method:	SW846-8015B SW846 3546	**Percent Solids:**	91.5
Project:	FRU 297-32A		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH001751.D	1	02/28/12	TR	02/27/12	OP5440	GFH90
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	2.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	169	15	9.5	mg/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
84-15-1	o-Terphenyl	73%		43-136%

ND = Not detected MDL - Method Detection Limit
RL = Reporting Limit
E = Indicates value exceeds calibration range
J = Indicates an estimated value
B = Indicates analyte found in associated method blank
N = Indicates presumptive evidence of a compound

Mountain States ACCUTEST LABORATORIES

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

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ACCUTEST LABORATORIES

Accutest Laboratories Mountain States
4036 Youngfield Street Wheat Ridge, Co 80033
TEL. 303-425-6021 877-737-4521
FAX 303-425-6021

FED-EX Tracking # | Bottle Order Control #
Accutest Quote # | Accutest Job # D32210

Client / Reporting Information

Company Name: KRW Consulting
Street Address: 8000 W. 14th Ave. Ste. 200
City / State / Zip: Lakewood, Co 80214
Project Contact / Email: Dwayne Knudson
Phone # / Fax #: 970-488-1098
Sampler(s) Name(s) / Phone #: C. Hollister 303.565-9365

Project Information

Project Name: XTO - FRU-297-32A
Street:
City:
Project #: 1108-12A
Client PO#:
Project Manager: Joe Hess

Billing Information (If different from Report to)

Company Name: XTO Energy
Street Address: 21459 CR5
City / State / Zip: Rifle, Co 81650
Attention: Jessica Doolin
PO#:

Requested Analysis (see TEST CODE sheet)

TPH (GRO+DRO)
Benzene

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL- Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB-Field Blank
EB- Equipment Blank
RB- Rinse Blank
TB-Trip Blank

Accutest Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	Bisulfate	LAB USE ONLY
	Cut #1 m/b: Days 8&10 (2/24)		2/24/12	9:30	CH	SO	3					X					01
	Cut #1 m/b: Day 9 (2/23)		2/24/12	9:40	CH	SO	3					X					02

Data Deliverable Information

- Commercial "A" (Level 1)
- Commercial "B" (Level 2)
- Commercial "B" +Narrative
- FULLT1 (Level 3+4)
- State Forms
- EDD Format
- [X] PDF

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary

Turnaround Time (Business days)

- Std. 10 Business Days
- Std. 5 Business Days (By Contract only)
- 5 Day RUSH
- [X] 3 Day EMERGENCY
- 2 Day EMERGENCY
- 1 Day EMERGENCY

Emergency & Rush T/A data available VIA Lablink

Approved By (Accutest PM): / Date:

Comments / Special Instructions

Please email results to KRW Piceance Creek Team

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1	C. Hollister	2/24/12	1 Jacobson	2/27/12 1200		2
3			3	4		4
5			5			

Custody Seal # EX — [X] Intact [ ] Not intact — Preserved where applicable: X — On Ice: X — Cooler Temp. 4.5

D32210: Chain of Custody
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Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D32210 **Client:** KRW CONSULTING **Immediate Client Services Action Required:** No

Date / Time Received: 2/27/2012 12:00:00 PM **No. Coolers:** 1 **Client Service Action Required at Login:** No

Project: XTO FRU 297-32A **Airbill #'s:** Fedex

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	Infared gun		
3. Cooler media:	Ice (bag)		

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	
2. Trip Blank listed on COC:	☐		☐	
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume rec'd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Comments

Accutest Laboratories
V:(303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www/accutest.com

D32210: Chain of Custody
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Mountain States ACCUTEST LABORATORIES

GC/MS Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D32210
Account: XTOKRWR XTO Energy
Project: FRU 297-32A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V1180-MB	5V19649.D	1	02/27/12	KV	n/a	n/a	V5V1180

The QC reported here applies to the following samples: **Method:** SW846 8260B

D32210-1, D32210-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/l	

CAS No.	Surrogate Recoveries		Limits
17060-07-0	1,2-Dichloroethane-D4	128%	67-131%
2037-26-5	Toluene-D8	89%	65-130%
460-00-4	4-Bromofluorobenzene	84%	65-130%

Blank Spike Summary

Job Number: D32210
Account: XTOKRWR XTO Energy
Project: FRU 297-32A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V1180-BS	5V19650.D	1	02/27/12	KV	n/a	n/a	V5V1180

The QC reported here applies to the following samples: **Method:** SW846 8260B

D32210-1, D32210-2

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	50	55.0	110	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
17060-07-0	1,2-Dichloroethane-D4	129%	67-131%
2037-26-5	Toluene-D8	93%	65-130%
460-00-4	4-Bromofluorobenzene	106%	65-130%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D32210
Account: XTOKRWR XTO Energy
Project: FRU 297-32A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D32186-2MS	5V19655.D	1	02/27/12	KV	n/a	n/a	V5V1180
D32186-2MSD	5V19656.D	1	02/27/12	KV	n/a	n/a	V5V1180
D32186-2	5V19652.D	1	02/27/12	KV	n/a	n/a	V5V1180

The QC reported here applies to the following samples: **Method:** SW846 8260B

D32210-1, D32210-2

CAS No.	Compound	D32186-2 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		2960	3150	107	3250	110	3	70-134/30

CAS No.	Surrogate Recoveries	MS	MSD	D32186-2	Limits
2037-26-5	Toluene-D8	91%	90%	91%	61-130%
460-00-4	4-Bromofluorobenzene	112%	110%	97%	53-131%
17060-07-0	1,2-Dichloroethane-D4	121%	119%	128%	62-130%

Mountain States ACCUTEST LABORATORIES

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D32210
Account: XTOKRWR XTO Energy
Project: FRU 297-32A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB848-MB	GB15089.D	1	02/27/12	SK	n/a	n/a	GGB848

The QC reported here applies to the following samples: **Method:** SW846 8015B

D32210-1, D32210-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	10	5.0	mg/kg	

CAS No.	Surrogate Recoveries		Limits
120-82-1	1,2,4-Trichlorobenzene	101%	60-140%

Blank Spike Summary

Job Number: D32210
Account: XTOKRWR XTO Energy
Project: FRU 297-32A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB848-BS	GB15090.D	1	02/27/12	SK	n/a	n/a	GGB848

The QC reported here applies to the following samples: **Method:** SW846 8015B

D32210-1, D32210-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	108	98	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	110%	60-140%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D32210
Account: XTOKRWR XTO Energy
Project: FRU 297-32A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D32208-1MS	GB15092.D	1	02/27/12	SK	n/a	n/a	GGB848
D32208-1MSD	GB15093.D	1	02/27/12	SK	n/a	n/a	GGB848
D32208-1	GB15091.D	1	02/27/12	SK	n/a	n/a	GGB848

The QC reported here applies to the following samples: **Method:** SW846 8015B

D32210-1, D32210-2

CAS No.	Compound	D32208-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		142	139	98	141	99	1	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D32208-1	Limits
120-82-1	1,2,4-Trichlorobenzene	102%	106%	96%	60-140%

Mountain States ACCUTEST LABORATORIES

GC Semi-volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Method Blank Summary

Job Number: D32210
Account: XTOKRWR XTO Energy
Project: FRU 297-32A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5440-MB	FH001733.D	1	02/28/12	TR	02/27/12	OP5440	GFH90

The QC reported here applies to the following samples: **Method:** SW846-8015B

D32210-1, D32210-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	13	8.7	mg/kg	

CAS No.	Surrogate Recoveries		Limits
84-15-1	o-Terphenyl	81%	43-136%

Blank Spike Summary

Job Number: D32210
Account: XTOKRWR XTO Energy
Project: FRU 297-32A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5440-BS	FH001735.D	1	02/28/12	TR	02/27/12	OP5440	GFH90

The QC reported here applies to the following samples: **Method:** SW846-8015B

D32210-1, D32210-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	533	80	58-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	80%	43-136%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D32210
Account: XTOKRWR XTO Energy
Project: FRU 297-32A

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP5440-MS	FH001737.D	1	02/28/12	TR	02/27/12	OP5440	GFH90
OP5440-MSD	FH001739.D	1	02/28/12	TR	02/27/12	OP5440	GFH90
D32208-1	FH001741.D	1	02/28/12	TR	02/27/12	OP5440	GFH90

The QC reported here applies to the following samples: **Method:** SW846-8015B

D32210-1, D32210-2

CAS No.	Compound	D32208-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	29.4		765	432	53	495	61	14	20-183/43

CAS No.	Surrogate Recoveries	MS	MSD	D32208-1	Limits
84-15-1	o-Terphenyl	54%	60%	70%	43-136%