



12/21/10

## Technical Report for

**Williams Production RMT Company**

**SG 34-28 Cuttings Benzene**

**Accutest Job Number: T65169**

**Sampling Date: 12/08/10**

### Report to:

**Williams Production RMT Company  
1058 County Road 215  
Parachute, CO 81635  
karolina.blaney@williams.com**

**ATTN: Karolina Blaney**

**Total number of pages in report: 13**



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.

A handwritten signature in black ink that reads 'Paul K Canevaro'.

**Paul Canevaro  
Laboratory Director**

**Client Service contact: Sylvia Garza 713-271-4700**

Certifications: TX (T104704220-10-3) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004)  
OK (9103)

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Test results relate only to samples analyzed.

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Sample Summary

Williams Production RMT Company  
SG 34-28 Cuttings Benzene

Job No: T65169

Sample Number	Collected		Received	Matrix		Client Sample ID
	Date	Time By		Code	Type	
T65169-1	12/08/10	08:30	12/11/10	SO	Soil	SG 34-28

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

## Sample Results

## Report of Analysis

## Report of Analysis

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<b>Client Sample ID:</b>	SG 34-28	<b>Date Sampled:</b>	12/08/10
<b>Lab Sample ID:</b>	T65169-1	<b>Date Received:</b>	12/11/10
<b>Matrix:</b>	SO - Soil	<b>Percent Solids:</b>	82.2
<b>Method:</b>	SW846 8260B		
<b>Project:</b>	SG 34-28 Cuttings Benzene		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0044840.D	1	12/18/10	FI	n/a	n/a	VY2720
Run #2							

	Initial Weight	Final Volume
Run #1	5.80 g	5.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	103	4.2	0.73	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		70-121%
2037-26-5	Toluene-D8	119%		76-132%
460-00-4	4-Bromofluorobenzene	143%		73-165%
17060-07-0	1,2-Dichloroethane-D4	74%		57-122%

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

## Misc. Forms

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### Custody Documents and Other Forms

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Includes the following where applicable:

- Chain of Custody

10165 Harwin Dr, Ste 150 Houston, TX 77036  
TEL: 713-271-4700 FAX: 713-271-4770  
www.accutest.com

<b>Client / Reporting Information</b> Company Name: <u>Williams Production</u> Address: <u>258 Cty Rd 215</u> State: <u>CO</u> Zip: <u>81635</u> Contact: <u>Karolina Blaney@Williams.com</u> Phone: <u>683 2295 / 970 285 9573</u> (e) Name(s): _____ Phone #: _____		<b>Project Information</b> Project Name: <u>SG 34-28 cuttings benzene</u> Street: _____ City: _____ State: _____ Billing Information (If different from Report to) Company Name: _____ Street Address: _____ City: _____ State: _____ Zip: _____ Project #: _____ Client Purchase Order #: _____ Project Manager: <u>Karolina Blaney</u> Attention: _____		FED-EX Tracking #: _____ Accutest Quota #: _____ Bottle Order Control #: _____ Accutest Job #: <u>T65169</u>	
<b>Field ID / Point of Collection</b> <u>SG 34-28</u>		<b>Collection</b> Date: <u>12/8/10</u> Time: <u>8:30a</u> Sampled By: <u>FM</u> Matrix: <u>SO</u> Number of preservative bottles: _____ NO _____ MECH _____ ZINC _____ HNO3 _____ H2SO4 _____ HClO4 _____ DI Water _____ MECH _____ TSP _____ MIBK _____ BNCORE _____ OTHER _____		<b>Requested Analyses</b> Matrix Codes: DW - Drinking Water GW - Ground Water WW - Wastewater 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	
Turnaround Time (Business days): <input checked="" type="checkbox"/> Standard <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 4 Day RUSH <input type="checkbox"/> 3 Day RUSH <input type="checkbox"/> 2 Day RUSH <input type="checkbox"/> 1 Day EMERGENCY Emergency & Rush T/A data available VIA Lablink		<b>Approved By (Accutest PM): / Date:</b> _____ _____ _____ _____		<b>Data Deliverable Information</b> <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> TRRP <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> EDD Format <input type="checkbox"/> FULLT (Level 3+4) <input type="checkbox"/> Other _____ <input type="checkbox"/> REDT1 (Level 3+4) <input type="checkbox"/> Commercial "C" Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial "C" = Results + QC & Surrogate Summary	
<b>Comments / Special Instructions</b> _____ _____ _____ _____					
<b>Sample Custody must be documented below each time samples change possession, including courier delivery.</b>					
Shipped by Sampler: <u>Karolina Blaney</u> Shipped by Sampler: <u>FedEx</u>	Date Time: <u>12/10/10</u> Date Time: <u>12/11/10 09:50</u>	Received By: <u>1</u> Received By: <u>3</u> Received By: <u>5</u>	Relinquished By: <u>2</u> Relinquished By: <u>4</u> Relinquished By: <u>6</u>	Date Time: <u>2</u> Date Time: <u>4</u>	Received By: <u>2</u> Received By: <u>4</u>
Intact <input type="checkbox"/> Preserved where applicable <input type="checkbox"/> Office <input type="checkbox"/> Cooler Ymn. <input type="checkbox"/>		Custody Seal # _____			

T65169: Chain of Custody

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# SAMPLE INSPECTION FORM

Accutest Job Number: T65169 Client: Williams Production Date/Time Received: 12/11/10 0950  
 # of Coolers Received: 1 Thermometer #: IR Gun 04 Temperature Adjustment Factor: 0  
 Cooler Temperatures (initial/adjusted): #1: 4.0°C #2: \_\_\_\_\_ #3: \_\_\_\_\_ #4: \_\_\_\_\_ #5: \_\_\_\_\_  
 #6: \_\_\_\_\_ #7: \_\_\_\_\_ #8: \_\_\_\_\_ #9: \_\_\_\_\_ #10: \_\_\_\_\_ #11: \_\_\_\_\_ #12: \_\_\_\_\_

Method of Delivery: FEDEX UPS Accutest Courier Greyhound Delivery Other

## COOLER INFORMATION

- ☐ Custody seal missing or not intact
- ☐ Temperature criteria not met
- ☐ Wet ice received in cooler

## CHAIN OF CUSTODY

- ☐ Chain of Custody not received
- ☐ Sample D/T unclear or missing
- ☐ Analyses unclear or missing
- ☐ COC not properly executed

## SAMPLE INFORMATION

- ☐ Sample containers received broken
- ☐ VOC vials have headspace
- ☐ Sample labels missing or illegible
- ☐ ID on COC does not match label(s)
- ☐ D/T on COC does not match label(s)
- ☐ Sample/Bottles rcvd but no analysis on COC
- ☐ Sample listed on COC, but not received
- ☐ Bottles missing for requested analysis
- ☐ Insufficient volume for analysis
- ☐ Sample received improperly preserved

## TRIP BLANK INFORMATION

- ☐ Trip Blank on COC but not received
- ☐ Trip Blank received but not on COC
- ☐ Trip Blank not intact
- ☐ Received Water Trip Blank
- ☐ Received Soil TB

Number of Encores? \_\_\_\_\_  
 Number of 5035 kits? \_\_\_\_\_  
 Number of lab-filtered metals? \_\_\_\_\_

Summary of Discrepancies:

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

TECHNICIAN SIGNATURE/DATE: Daniel Huchette 12/11/10

INFORMATION AND SAMPLE LABELING VERIFIED BY: \_\_\_\_\_

## CORRECTIVE ACTIONS

Client Representative Notified: \_\_\_\_\_

Date: \_\_\_\_\_

By Accutest Representative: \_\_\_\_\_

Via: Phone Email

Client Instructions:

I:\mwalker\form\samplemanagement SM023 Revised 8/11/10

T65169: Chain of Custody

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## GC/MS Volatiles

### QC Data Summaries

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Includes the following where applicable:

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

Method Blank Summary

Job Number: T65169  
Account: WPRMTCOP Williams Production RMT Company  
Project: SG 34-28 Cuttings Benzene

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2720-MB	Y0044827.D	1	12/17/10	FI	n/a	n/a	VY2720

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

T65169-1

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	4.0	0.70	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	92% 70-121%
2037-26-5	Toluene-D8	103% 76-132%
460-00-4	4-Bromofluorobenzene	110% 73-165%
17060-07-0	1,2-Dichloroethane-D4	85% 57-122%

Blank Spike Summary

Job Number: T65169  
Account: WPRMTCOP Williams Production RMT Company  
Project: SG 34-28 Cuttings Benzene

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2720-BS	Y0044825.D	1	12/17/10	FI	n/a	n/a	VY2720

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

T65169-1

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	45.1	90	70-114

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	91%	70-121%
2037-26-5	Toluene-D8	103%	76-132%
460-00-4	4-Bromofluorobenzene	105%	73-165%
17060-07-0	1,2-Dichloroethane-D4	81%	57-122%

# Matrix Spike/Matrix Spike Duplicate Summary

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**Job Number:** T65169  
**Account:** WPRMTCOP Williams Production RMT Company  
**Project:** SG 34-28 Cuttings Benzene

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T65415-1MS	Y0044829.D	1	12/17/10	FI	n/a	n/a	VY2720
T65415-1MSD	Y0044830.D	1	12/17/10	FI	n/a	n/a	VY2720
T65415-1	Y0044828.D	1	12/17/10	FI	n/a	n/a	VY2720

The QC reported here applies to the following samples:

Method: SW846 8260B

T65169-1

CAS No.	Compound	T65415-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	4.3	U	56.1	48.9	87	48.3	82	1	70-114/38

CAS No.	Surrogate Recoveries	MS	MSD	T65415-1	Limits
1868-53-7	Dibromofluoromethane	90%	88%	89%	70-121%
2037-26-5	Toluene-D8	103%	104%	103%	76-132%
460-00-4	4-Bromofluorobenzene	103%	105%	109%	73-165%
17060-07-0	1,2-Dichloroethane-D4	81%	78%	82%	57-122%