

State of Colorado
Oil and Gas Conservation Commission

1120 Lincoln Street, Suite 801, Denver, Colorado 80203 Phone: (303)894-2100 Fax:(303)894-2109



DOCUMENT
#2232948

SUNDRY NOTICE

Submit original plus one copy. This form is to be used for general, technical and environmental sundry Information. For proposed or completed operations, describe in full on Technical Information Page (Page 2 of this form.) Identify well or other facility by API Number or by OGCC Facility ID. Operator shall send an informational copy of all sundry notices for wells located in High Density Areas to the Local Government Designee (Rule 603b.)

RECEIVED
5/13/2013

1. OGCC Operator Number: 96850		4. Contact Name		Complete the Attachment Checklist OP OGCC
2. Name of Operator: WPX Energy Rocky Mountain, LLC		Karolina Blaney		
3. Address: 1058 County Road 215		Phone: 970.683.2295		
City: Parachute State: CO Zip: 81635		Fax: 970.285.9573		
5. API Number 05- 045-06563		OGCC Facility ID Number 311560		Survey Plat
6. Well/Facility Name: MV 25-17		7. Well/Facility Number MV 25-17		Directional Survey
8. Location (Qtr/Qtr, Sec, Twp, Rng, Meridian): SESE, S17, T6S, R96W, 6th PM				Surface Eqpm Diagram
9. County: Garfield		10. Field Name: Grand Valley		Technical Info Page
11. Federal, Indian or State Lease Number: NA				Other

General Notice

☐ CHANGE OF LOCATION: Attach New Survey Plat (a change of surface qtr/qtr is substantive and requires a new permit)

Change of Surface Footage from Exterior Section Lines:

Change of Surface Footage to Exterior Section Lines:

Change of Bottomhole Footage from Exterior Section Lines:

Change of Bottomhole Footage to Exterior Section Lines:

Bottomhole location Qtr/Qtr, Sec, Twp, Rng, Mer

Latitude

Longitude

Ground Elevation

Distance to nearest property line

Distance to nearest lease line

Distance to nearest well same formation

Distance to nearest bldg, public rd, utility or RR

Is location in a High Density Area (rule 603b)?

Surface owner consultation date:

Yes/No

attach directional survey

GPS DATA:

Date of Measurement

PDOP Reading

Instrument Operator's Name

☐ CHANGE SPACING UNIT

Formation

Formation Code

Spacing order number

Unit Acreage

Unit configuration

☐ Remove from surface bond

Signed surface use agreement attached

☐ CHANGE OF OPERATOR (prior to drilling):

Effective Date:

Plugging Bond: Blanket Individual

☐ CHANGE WELL NAME

From:

To:

Effective Date:

NUMBER

☐ ABANDONED LOCATION:

Was location ever built?

Is site ready for Inspection?

Date Ready for Inspection:

☐ NOTICE OF CONTINUED SHUT IN STATUS

Date well shut in or temporarily abandoned:

Has Production Equipment been removed from site?

MIT required if shut in longer than two years. Date of last MIT

☐ SPUD DATE:

☐ REQUEST FOR CONFIDENTIAL STATUS (6 mos from date casing set)

☐ SUBSEQUENT REPORT OF STAGE, SQUEEZE OR REMEDIAL CEMENT WORK

Method used

Cementing tool setting/perf depth

Cement volume

Cement top

Cement bottom

Date

☐ RECLAMATION: Attach technical page describing final reclamation procedures per Rule 1004.

Final reclamation will commence on approximately

Final reclamation is completed and site is ready for inspection.

Technical Engineering/Environmental Notice

☐ Notice of Intent

Approximate Start Date:

☐ Report of Work Done

Date Work Completed:

Details of work must be described in full on Technical Information Page (Page 2 must be submitted.)

☐ Intent to Recomplete (submit form 2)

☐ Request to Vent or Flare

☐ E&P Waste Disposal

☐ Change Drilling Plans

☐ Repair Well

☐ Beneficial Reuse of E&P Waste

☐ Gross Interval Changed?

☐ Rule 502 variance requested

☒ Status Update/Change of Remediation Plans

☐ Casing/Cementing Program Change

☐ Other:

for Spills and Releases

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct and complete.

Signed: Karolina Blaney Date: 5/13/2013 Email: Karolina.Blaney@wpxenergy.com
Print Name: Karolina Blaney Title: Environmental Specialist

COGCC Approved: Title: Date:

CONDITIONS OF APPROVAL, IF ANY:

TECHNICAL INFORMATION PAGE



FOR OGCC USE ONLY

1. OGCC Operator Number: _____ API Number: _____

2. Name of Operator: _____ OGCC Facility ID # _____

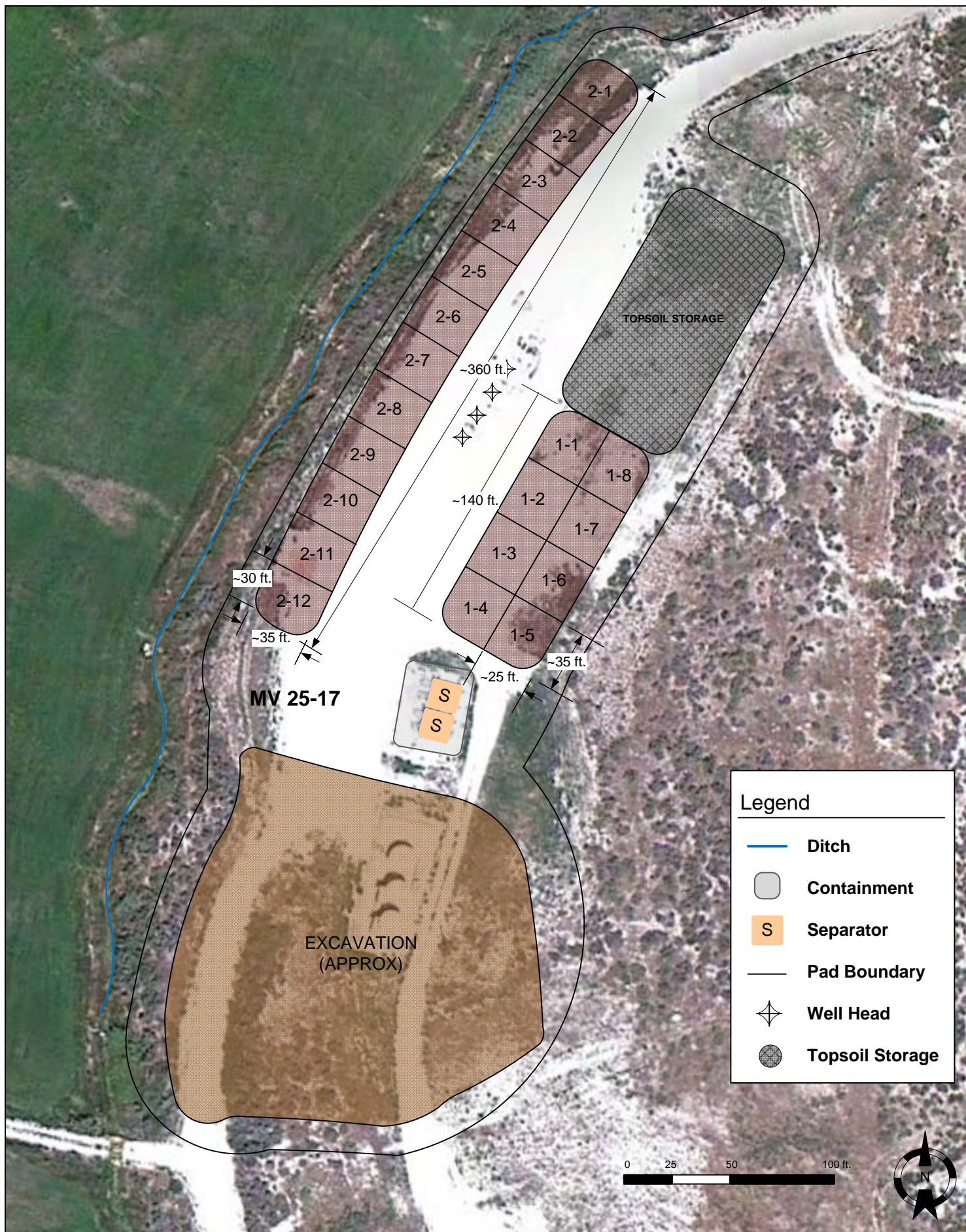
3. Well/Facility Name: _____ Well/Facility Number: _____

4. Location (QtrQtr, Sec, Twp, Rng, Meridian): _____

This form is to be completed whenever a Sundry Notice is submitted requiring detailed report of work to be performed or completed. This form shall be transmitted within 30 days of work completed as a "subsequent" report and must accompany Form 4, page 1.

5.

DESCRIBE PROPOSED OR COMPLETED OPERATIONS



PROJECT NO:	012-1538
DRAWN BY:	KJG
DATE:	5/10/13

Landfarm Sampling Diagram
Location: MV 25-17
WPX Energy Rocky Mountain, LLC


OLSSON
 ASSOCIATES

760 Horizon Drive, Suite 102
 Grand Junction, CO 81506
 TEL 970.263.7800
 FAX 970.263.7456

FIGURE
1



05/08/13

Technical Report for

WPX Energy Rocky Mountain, LLC

CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Accutest Job Number: D45890

Sampling Date: 05/04/13

Report to:

Olsson Associates
760 Horizon Drive Suite 102
Grand Junction, CO 81505
tdobransky@olssonassociates.com; karolina.blaney@wpxenergy.com
ATTN: Tim Dobransky

Total number of pages in report: 33



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, appearing to read 'Scott Heideman'.

Scott Heideman
Laboratory Director

Client Service contact: Renea Jackson 303-425-6021

Certifications: CO (CO00049), ID, NE (CO00049), ND (R-027), NJ (CO 0007), OK (D9942), UT (NELAP CO00049), TX (T104704511)

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.
Test results relate only to samples analyzed.

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Sample Summary

WPX Energy Rocky Mountain, LLC

Job No: D45890

CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample Number	Collected		Time By	Received	Matrix		Client Sample ID
	Date				Code	Type	
D45890-1	05/04/13	12:05	TPD	05/07/13	SO	Soil	MV 25-17 LF 1-1 (0-24 IN.)
D45890-2	05/04/13	12:15	TPD	05/07/13	SO	Soil	MV 25-17 LF 1-6 (0-24 IN.)

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



CASE NARRATIVE / CONFORMANCE SUMMARY

Client: WPX Energy Rocky Mountain, LLC

Job No D45890

Site: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Report Date 5/8/2013 4:46:58 PM

On 05/07/2013, 2 sample(s), 0 Trip Blank(s), and 0 Field Blank(s) were received at Accutest Mountain States (AMS) at a temperature of 3.9 °C. The samples were intact and properly preserved, unless noted below. An AMS Job Number of D45890 was assigned to the project. The lab sample ID, client sample ID, 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.

Extractables by GCMS By Method SW846 8270C BY SIM

Matrix SO

Batch ID: OP7816

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D45890-1MS, D45890-1MSD were used as the QC samples indicated.

Volatiles by GC By Method SW846 8015B

Matrix SO

Batch ID: GGB1114

- All samples were analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D45850-1MS, D45850-1MSD were used as the QC samples indicated.

Extractables by GC By Method SW846-8015B

Matrix SO

Batch ID: OP7817

- All samples were extracted and analyzed within the recommended method holding time.
- All method blanks for this batch meet method specific criteria.
- Sample(s) D45890-2MS, D45890-2MSD were used as the QC samples indicated.

Wet Chemistry By Method SM19 2540B M

Matrix SO

Batch ID: GN20056

- 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.

Summary of Hits

Page 1 of 1

Job Number: D45890
Account: WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING
Collected: 05/04/13



Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
D45890-1	MV 25-17 LF 1-1 (0-24 IN.)					
Toluene		176	130	63	ug/kg	SW846 8260B
Ethylbenzene		32.0 J	130	24	ug/kg	SW846 8260B
Xylene (total)		497	250	130	ug/kg	SW846 8260B
TPH-GRO (C6-C10)		9.91 J	13	6.3	mg/kg	SW846 8015B
TPH-DRO (C10-C28)		52.9	7.6	5.7	mg/kg	SW846-8015B
D45890-2	MV 25-17 LF 1-6 (0-24 IN.)					
TPH-DRO (C10-C28)		69.4	7.6	5.7	mg/kg	SW846-8015B

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MV 25-17 LF 1-1 (0-24 IN.)	Date Sampled:	05/04/13
Lab Sample ID:	D45890-1	Date Received:	05/07/13
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846 8260B		
Project:	CORCCOGJ: MV 25-17 LANDFARM SAMPLING		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V26830.D	1	05/07/13	BD	n/a	n/a	V5V1631
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.07 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	63	32	ug/kg	
108-88-3	Toluene	176	130	63	ug/kg	
100-41-4	Ethylbenzene	32.0	130	24	ug/kg	J
1330-20-7	Xylene (total)	497	250	130	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	103%		64-130%
460-00-4	4-Bromofluorobenzene	109%		62-131%
17060-07-0	1,2-Dichloroethane-D4	92%		70-130%

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:	MV 25-17 LF 1-1 (0-24 IN.)	Date Sampled:	05/04/13
Lab Sample ID:	D45890-1	Date Received:	05/07/13
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846 8270C BY SIM SW846 3546		
Project:	CORCCOGJ: MV 25-17 LANDFARM SAMPLING		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G14458.D	1	05/07/13	DC	05/07/13	OP7816	E3G705
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

COGCC Table 910-1 PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	9.5	4.9	ug/kg	
120-12-7	Anthracene	ND	9.5	4.9	ug/kg	
56-55-3	Benzo(a)anthracene	ND	9.5	4.9	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	9.5	4.9	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	9.5	4.9	ug/kg	
50-32-8	Benzo(a)pyrene	ND	9.5	4.9	ug/kg	
218-01-9	Chrysene	ND	9.5	4.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	9.5	4.9	ug/kg	
206-44-0	Fluoranthene	ND	9.5	4.9	ug/kg	
86-73-7	Fluorene	ND	9.5	5.7	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	9.5	4.9	ug/kg	
91-20-3	Naphthalene	ND	13	12	ug/kg	
129-00-0	Pyrene	ND	9.5	4.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	85%		10-159%
321-60-8	2-Fluorobiphenyl	86%		19-131%
1718-51-0	Terphenyl-d14	97%		18-150%

ND = Not detected MDL - Method Detection Limit

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N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MV 25-17 LF 1-1 (0-24 IN.)	Date Sampled:	05/04/13
Lab Sample ID:	D45890-1	Date Received:	05/07/13
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846 8015B		
Project:	CORCCOGJ: MV 25-17 LANDFARM SAMPLING		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB20367.D	1	05/07/13	BD	n/a	n/a	GGB1114
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.1 g	5.0 ml	100 ul
Run #2			

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	9.91	13	6.3	mg/kg	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
120-82-1	1,2,4-Trichlorobenzene	95%		60-140%

ND = Not detected MDL - Method Detection Limit
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 E = Indicates value exceeds calibration range

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 B = Indicates analyte found in associated method blank
 N = Indicates presumptive evidence of a compound

Report of Analysis

Page 1 of 1

Client Sample ID:	MV 25-17 LF 1-1 (0-24 IN.)	Date Sampled:	05/04/13
Lab Sample ID:	D45890-1	Date Received:	05/07/13
Matrix:	SO - Soil	Percent Solids:	87.8
Method:	SW846-8015B SW846 3546		
Project:	CORCCOGJ: MV 25-17 LANDFARM SAMPLING		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH010063.D	1	05/07/13	TU	05/07/13	OP7817	GFH564
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	52.9	7.6	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	75%		35-130%		

ND = Not detected MDL - Method Detection Limit
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 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:	MV 25-17 LF 1-6 (0-24 IN.)	Date Sampled:	05/04/13
Lab Sample ID:	D45890-2	Date Received:	05/07/13
Matrix:	SO - Soil	Percent Solids:	87.6
Method:	SW846 8260B		
Project:	CORCCOGJ: MV 25-17 LANDFARM SAMPLING		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V26833.D	1	05/07/13	BD	n/a	n/a	V5V1631
Run #2							

	Initial Weight	Final Volume	Methanol Aliquot
Run #1	5.04 g	5.0 ml	100 ul
Run #2			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	64	32	ug/kg	
108-88-3	Toluene	ND	130	64	ug/kg	
100-41-4	Ethylbenzene	ND	130	24	ug/kg	
1330-20-7	Xylene (total)	ND	260	130	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
2037-26-5	Toluene-D8	99%		64-130%
460-00-4	4-Bromofluorobenzene	109%		62-131%
17060-07-0	1,2-Dichloroethane-D4	95%		70-130%

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:	MV 25-17 LF 1-6 (0-24 IN.)	Date Sampled:	05/04/13
Lab Sample ID:	D45890-2	Date Received:	05/07/13
Matrix:	SO - Soil	Percent Solids:	87.6
Method:	SW846 8270C BY SIM SW846 3546		
Project:	CORCCOGJ: MV 25-17 LANDFARM SAMPLING		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	3G14461.D	1	05/07/13	DC	05/07/13	OP7816	E3G705
Run #2							

	Initial Weight	Final Volume
Run #1	30.1 g	1.0 ml
Run #2		

COGCC Table 910-1 PAH List

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	9.5	4.9	ug/kg	
120-12-7	Anthracene	ND	9.5	4.9	ug/kg	
56-55-3	Benzo(a)anthracene	ND	9.5	4.9	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	9.5	4.9	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	9.5	4.9	ug/kg	
50-32-8	Benzo(a)pyrene	ND	9.5	4.9	ug/kg	
218-01-9	Chrysene	ND	9.5	4.9	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	9.5	4.9	ug/kg	
206-44-0	Fluoranthene	ND	9.5	4.9	ug/kg	
86-73-7	Fluorene	ND	9.5	5.7	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	9.5	4.9	ug/kg	
91-20-3	Naphthalene	ND	13	12	ug/kg	
129-00-0	Pyrene	ND	9.5	4.9	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
4165-60-0	Nitrobenzene-d5	84%		10-159%
321-60-8	2-Fluorobiphenyl	85%		19-131%
1718-51-0	Terphenyl-d14	95%		18-150%

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Report of Analysis

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Client Sample ID:	MV 25-17 LF 1-6 (0-24 IN.)	Date Sampled:	05/04/13
Lab Sample ID:	D45890-2	Date Received:	05/07/13
Matrix:	SO - Soil	Percent Solids:	87.6
Method:	SW846 8015B		
Project:	CORCCOGJ: MV 25-17 LANDFARM SAMPLING		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GB20368.D	1	05/07/13	BD	n/a	n/a	GGB1114
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)	ND	13	6.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	92%		60-140%		

ND = Not detected MDL - Method Detection Limit
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Report of Analysis

Page 1 of 1

Client Sample ID:	MV 25-17 LF 1-6 (0-24 IN.)	Date Sampled:	05/04/13
Lab Sample ID:	D45890-2	Date Received:	05/07/13
Matrix:	SO - Soil	Percent Solids:	87.6
Method:	SW846-8015B SW846 3546		
Project:	CORCCOGJ: MV 25-17 LANDFARM SAMPLING		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FH010064.D	1	05/07/13	TU	05/07/13	OP7817	GFH564
Run #2							

	Initial Weight	Final Volume
Run #1	30.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	69.4	7.6	5.7	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	82%		35-130%		

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

Misc. Forms

5

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

Accutest Laboratories Sample Receipt Summary

Accutest Job Number: D45890

Client: OLSSON ASS.

Immediate Client Services Action Required: No

Date / Time Received: 5/7/2013 9:50:00 AM

No. Coolers: 1

Client Service Action Required at Login: No

Project: MV-17 LANDFARM SAMPLING

Airbill #'s: Fedex

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	3. COC Present:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Custody Seals Intact:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	4. Smpl Dates/Time OK	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Cooler temp verification:			Infrared gun
3. Cooler media:			Ice (bag)

Quality Control Preservation	Y	or	N	N/A
1. Trip Blank present / cooler:	<input type="checkbox"/>		<input type="checkbox"/>	
2. Trip Blank listed on COC:	<input type="checkbox"/>		<input type="checkbox"/>	
3. Samples preserved properly:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. VOCs headspace free:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. Container labeling complete:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Sample container label / COC agree:	<input checked="" type="checkbox"/>		<input type="checkbox"/>

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
2. All containers accounted for:	<input checked="" type="checkbox"/>		<input type="checkbox"/>
3. Condition of sample:			Intact

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
2. Bottles received for unspecified tests	<input type="checkbox"/>		<input checked="" type="checkbox"/>	
3. Sufficient volume rec'd for analysis:	<input checked="" type="checkbox"/>		<input type="checkbox"/>	
4. Compositing instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Filtering instructions clear:	<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>

Comments

Accutest Laboratories
V:(303) 425-6021

4036 Youngfield Street
F: (303) 425-6854

Wheat Ridge, CO
www.accutest.com

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

Page 1 of 1

Job Number: D45890

Account: WILLCOP WPX Energy Rocky Mountain, LLC

Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V1631-MB	5V26828.D	1	05/07/13	BD	n/a	n/a	V5V1631

The QC reported here applies to the following samples:

Method: SW846 8260B

D45890-1, D45890-2

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	25	ug/kg	
100-41-4	Ethylbenzene	ND	100	19	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
1330-20-7	Xylene (total)	ND	200	100	ug/kg	

CAS No.	Surrogate Recoveries	Limits
2037-26-5	Toluene-D8	99% 64-130%
460-00-4	4-Bromofluorobenzene	108% 62-131%
17060-07-0	1,2-Dichloroethane-D4	97% 70-130%

Blank Spike Summary

Page 1 of 1

Job Number: D45890

Account: WILLCOP WPX Energy Rocky Mountain, LLC

Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V1631-BS	5V26829.D	1	05/07/13	BD	n/a	n/a	V5V1631

The QC reported here applies to the following samples:

Method: SW846 8260B

D45890-1, D45890-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	2500	2530	101	70-130
100-41-4	Ethylbenzene	2500	2640	106	70-130
108-88-3	Toluene	2500	2460	98	70-130
1330-20-7	Xylene (total)	7500	7680	102	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
2037-26-5	Toluene-D8	101%	64-130%
460-00-4	4-Bromofluorobenzene	100%	62-131%
17060-07-0	1,2-Dichloroethane-D4	95%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D45890

Account: WILLCOP WPX Energy Rocky Mountain, LLC

Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D45890-1MS	5V26831.D	1	05/07/13	BD	n/a	n/a	V5V1631
D45890-1MSD	5V26832.D	1	05/07/13	BD	n/a	n/a	V5V1631
D45890-1	5V26830.D	1	05/07/13	BD	n/a	n/a	V5V1631

The QC reported here applies to the following samples:

Method: SW846 8260B

D45890-1, D45890-2

CAS No.	Compound	D45890-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		3160	3190	101	3300	105	3	64-139/30
100-41-4	Ethylbenzene	32.0	J	3160	3290	103	3270	103	1	68-136/30
108-88-3	Toluene	176		3160	3130	94	3130	94	0	60-130/30
1330-20-7	Xylene (total)	497		9470	9900	99	9860	99	0	58-142/30

CAS No.	Surrogate Recoveries	MS	MSD	D45890-1	Limits
2037-26-5	Toluene-D8	101%	99%	103%	64-130%
460-00-4	4-Bromofluorobenzene	111%	108%	109%	62-131%
17060-07-0	1,2-Dichloroethane-D4	94%	93%	92%	70-130%

* = Outside of Control Limits.

GC/MS Semi-volatiles

QC Data Summaries

Includes the following where applicable:

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

Method Blank Summary

Page 1 of 1

Job Number: D45890

Account: WILLCOP WPX Energy Rocky Mountain, LLC

Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7816-MB	3G14456.D	1	05/07/13	DC	05/07/13	OP7816	E3G705

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

D45890-1, D45890-2

CAS No.	Compound	Result	RL	MDL	Units	Q
83-32-9	Acenaphthene	ND	8.3	4.3	ug/kg	
120-12-7	Anthracene	ND	8.3	4.3	ug/kg	
56-55-3	Benzo(a)anthracene	ND	8.3	4.3	ug/kg	
205-99-2	Benzo(b)fluoranthene	ND	8.3	4.3	ug/kg	
207-08-9	Benzo(k)fluoranthene	ND	8.3	4.3	ug/kg	
50-32-8	Benzo(a)pyrene	ND	8.3	4.3	ug/kg	
218-01-9	Chrysene	ND	8.3	4.3	ug/kg	
53-70-3	Dibenzo(a,h)anthracene	ND	8.3	4.3	ug/kg	
206-44-0	Fluoranthene	ND	8.3	4.3	ug/kg	
86-73-7	Fluorene	ND	8.3	5.0	ug/kg	
193-39-5	Indeno(1,2,3-cd)pyrene	ND	8.3	4.3	ug/kg	
91-20-3	Naphthalene	ND	12	10	ug/kg	
129-00-0	Pyrene	ND	8.3	4.3	ug/kg	

CAS No.	Surrogate Recoveries	Limits
4165-60-0	Nitrobenzene-d5	87% 10-159%
321-60-8	2-Fluorobiphenyl	89% 19-131%
1718-51-0	Terphenyl-d14	120% 18-150%

Blank Spike Summary

Page 1 of 1

Job Number: D45890

Account: WILLCOP WPX Energy Rocky Mountain, LLC

Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7816-BS	3G14457.D	1	05/07/13	DC	05/07/13	OP7816	E3G705

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

D45890-1, D45890-2

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
83-32-9	Acenaphthene	83.3	80.9	97	68-130
120-12-7	Anthracene	83.3	81.1	97	67-130
56-55-3	Benzo(a)anthracene	83.3	77.3	93	65-130
205-99-2	Benzo(b)fluoranthene	83.3	64.4	77	44-130
207-08-9	Benzo(k)fluoranthene	83.3	85.7	103	56-131
50-32-8	Benzo(a)pyrene	83.3	74.3	89	62-130
218-01-9	Chrysene	83.3	83.8	101	70-130
53-70-3	Dibenzo(a,h)anthracene	83.3	85.2	102	55-130
206-44-0	Fluoranthene	83.3	72.6	87	70-130
86-73-7	Fluorene	83.3	81.5	98	70-130
193-39-5	Indeno(1,2,3-cd)pyrene	83.3	83.6	100	56-130
91-20-3	Naphthalene	83.3	86.8	104	70-130
129-00-0	Pyrene	83.3	91.5	110	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
4165-60-0	Nitrobenzene-d5	90%	10-159%
321-60-8	2-Fluorobiphenyl	93%	19-131%
1718-51-0	Terphenyl-d14	111%	18-150%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D45890

Account: WILLCOP WPX Energy Rocky Mountain, LLC

Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7816-MS	3G14459.D	1	05/07/13	DC	05/07/13	OP7816	E3G705
OP7816-MSD	3G14460.D	1	05/07/13	DC	05/07/13	OP7816	E3G705
D45890-1	3G14458.D	1	05/07/13	DC	05/07/13	OP7816	E3G705

The QC reported here applies to the following samples:

Method: SW846 8270C BY SIM

D45890-1, D45890-2

CAS No.	Compound	D45890-1 ug/kg	Q	Spike ug/kg	MS ug/kg	MS %	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
83-32-9	Acenaphthene	ND		94.8	86.7	91	97.0	102	11	25-151/30
120-12-7	Anthracene	ND		94.8	96.4	102	102	107	6	39-159/30
56-55-3	Benzo(a)anthracene	ND		94.8	99.0	104	104	110	5	39-168/30
205-99-2	Benzo(b)fluoranthene	ND		94.8	84.9	90	88.4	93	4	24-163/30
207-08-9	Benzo(k)fluoranthene	ND		94.8	80.3	85	88.5	93	10	10-188/30
50-32-8	Benzo(a)pyrene	ND		94.8	82.0	86	84.3	89	3	32-144/30
218-01-9	Chrysene	ND		94.8	92.7	98	96.8	102	4	43-150/30
53-70-3	Dibenzo(a,h)anthracene	ND		94.8	100	105	106	112	6	21-152/30
206-44-0	Fluoranthene	ND		94.8	90.4	95	93.8	99	4	36-157/30
86-73-7	Fluorene	ND		94.8	97.1	102	103	109	6	10-182/30
193-39-5	Indeno(1,2,3-cd)pyrene	ND		94.8	93.5	99	98.8	104	6	20-154/30
91-20-3	Naphthalene	ND		94.8	99.5	105	118	124	17	10-163/30
129-00-0	Pyrene	ND		94.8	102	108	107	113	5	25-180/30

CAS No.	Surrogate Recoveries	MS	MSD	D45890-1	Limits
4165-60-0	Nitrobenzene-d5	71%	83%	85%	10-159%
321-60-8	2-Fluorobiphenyl	74%	90%	86%	19-131%
1718-51-0	Terphenyl-d14	88%	93%	97%	18-150%

* = Outside of Control Limits.

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: D45890
Account: WILLCOP WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB1114-MB	GB20360.D	1	05/07/13	BD	n/a	n/a	GGB1114

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

D45890-1, D45890-2

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	99% 60-140%

Blank Spike Summary

Job Number: D45890
Account: WILLCOP WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGB1114-BS	GB20361.D	1	05/07/13	BD	n/a	n/a	GGB1114

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

D45890-1, D45890-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	110	115	105	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	108%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D45890
Account: WILLCOP WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D45850-1MS	GB20363.D	1	05/07/13	BD	n/a	n/a	GGB1114
D45850-1MSD	GB20364.D	1	05/07/13	BD	n/a	n/a	GGB1114
D45850-1	GB20362.D	1	05/07/13	BD	n/a	n/a	GGB1114

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

D45890-1, D45890-2

CAS No.	Compound	D45850-1 mg/kg	Spike Q	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND	138	145	105	145	105	0	70-130/30

CAS No.	Surrogate Recoveries	MS	MSD	D45850-1	Limits
120-82-1	1,2,4-Trichlorobenzene	110%	105%	100%	60-140%

* = Outside of Control Limits.

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: D45890
Account: WILLCOP WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7817-MB	FH010059.D	1	05/07/13	TU	05/07/13	OP7817	GFH564

The QC reported here applies to the following samples: Method: SW846-8015B
D45890-1, D45890-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	6.7	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	94% 35-130%

Blank Spike Summary

Job Number: D45890
Account: WILLCOP WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7817-BS	FH010060.D	1	05/07/13	TU	05/07/13	OP7817	GFH564

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

D45890-1, D45890-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	667	555	83	48-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	89%	35-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D45890
Account: WILLCOP WPX Energy Rocky Mountain, LLC
Project: CORCCOGJ: MV 25-17 LANDFARM SAMPLING

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP7817-MS	FH010061.D	1	05/07/13	TU	05/07/13	OP7817	GFH564
OP7817-MSD	FH010062.D	1	05/07/13	TU	05/07/13	OP7817	GFH564
D45890-2	FH010064.D	1	05/07/13	TU	05/07/13	OP7817	GFH564

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

D45890-1, D45890-2

CAS No.	Compound	D45890-2 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	69.4		761	589	68	672	79	13	20-168/30

CAS No.	Surrogate Recoveries	MS	MSD	D45890-2	Limits
84-15-1	o-Terphenyl	68%	83%	82%	35-130%

* = Outside of Control Limits.