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Automated Report

Technical Report for

Verdad Oil and Gas Corporation
Cervi 26 Confirmation

Spill# 448845
Complaint 200440955
Document 2495762

SGS Accutest Job Number: D93126

Sampling Date: 04/19/17

Report to:

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Total number of pages in report: 52



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

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Laboratory Director

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Certifications: CO (CO00049), ID (CO00049), NE (NE-OS-06-04), ND (R-027), NJ (CO007), OK (D9942)
UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L)

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Test results relate only to samples analyzed.



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Sample Summary

Verdad Oil and Gas Corporation

Job No: D93126

Cervi 26 Confirmation

Sample Number	Collected Date	Time By	Received	Matrix Code	Type	Client Sample ID
D93126-1	04/19/17	14:30 MC	04/19/17	SO	Soil	1
D93126-2	04/19/17	14:30 MC	04/19/17	SO	Soil	2
D93126-3	04/19/17	14:30 MC	04/19/17	SO	Soil	3
D93126-4	04/19/17	14:30 MC	04/19/17	SO	Soil	4
D93126-5	04/19/17	14:30 MC	04/19/17	SO	Soil	5
D93126-6	04/19/17	14:30 MC	04/19/17	SO	Soil	6
D93126-7	04/19/17	14:30 MC	04/19/17	SO	Soil	7
D93126-8	04/19/17	14:30 MC	04/19/17	SO	Soil	8

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

Summary of Hits

Job Number: D93126
Account: Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation
Collected: 04/19/17

Lab Sample ID	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
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D93126-1 1

No hits reported in this sample.

D93126-2 2

No hits reported in this sample.

D93126-3 3

No hits reported in this sample.

D93126-4 4

No hits reported in this sample.

D93126-5 5

No hits reported in this sample.

D93126-6 6

No hits reported in this sample.

D93126-7 7

No hits reported in this sample.

D93126-8 8

No hits reported in this sample.

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	1	Date Sampled:	04/19/17
Lab Sample ID:	D93126-1	Date Received:	04/19/17
Matrix:	SO - Soil	Percent Solids:	98.1
Method:	SW846 8260B		
Project:	Cervi 26 Confirmation		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41735.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	109%		70-130%
460-00-4	4-Bromofluorobenzene	103%		65-142%
17060-07-0	1,2-Dichloroethane-D4	109%		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:	1	
Lab Sample ID:	D93126-1	Date Sampled: 04/19/17
Matrix:	SO - Soil	Date Received: 04/19/17
Method:	SW846 8015B	Percent Solids: 98.1
Project:	Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37854.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	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)	ND	10	5.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	100%		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:	1	
Lab Sample ID:	D93126-1	Date Sampled: 04/19/17
Matrix:	SO - Soil	Date Received: 04/19/17
Method:	SW846-8015B SW846 3546	Percent Solids: 98.1
Project:	Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53310.D	1	04/26/17	GN	04/22/17	OP14904	GFI2240
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.9 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	9.8	8.8	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	90%		41-134%		

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:	2	Date Sampled:	04/19/17
Lab Sample ID:	D93126-2	Date Received:	04/19/17
Matrix:	SO - Soil	Percent Solids:	97.2
Method:	SW846 8260B		
Project:	Cervi 26 Confirmation		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41736.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	90%		70-130%
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	101%		65-142%
17060-07-0	1,2-Dichloroethane-D4	108%		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:	2	
Lab Sample ID:	D93126-2	Date Sampled: 04/19/17
Matrix:	SO - Soil	Date Received: 04/19/17
Method:	SW846 8015B	Percent Solids: 97.2
Project:	Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37855.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	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	11	5.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	103%		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:	2						
Lab Sample ID:	D93126-2					Date Sampled:	04/19/17
Matrix:	SO - Soil					Date Received:	04/19/17
Method:	SW846-8015B SW846 3546					Percent Solids:	97.2
Project:	Cervi 26 Confirmation						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53332.D	1	04/26/17	GN	04/22/17	OP14904	GFI2240
Run #2							

	Initial Weight	Final Volume
Run #1	20.5 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.0	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	83%		41-134%		

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:	3	Date Sampled:	04/19/17
Lab Sample ID:	D93126-3	Date Received:	04/19/17
Matrix:	SO - Soil	Percent Solids:	96.3
Method:	SW846 8260B		
Project:	Cervi 26 Confirmation		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41737.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

	Initial Weight	Final Volume
Run #1	5.02 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.52	ug/kg	
108-88-3	Toluene	ND	2.1	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.1	0.52	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		70-130%
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	101%		65-142%
17060-07-0	1,2-Dichloroethane-D4	108%		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:	3	Date Sampled:	04/19/17
Lab Sample ID:	D93126-3	Date Received:	04/19/17
Matrix:	SO - Soil	Percent Solids:	96.3
Method:	SW846 8015B		
Project:	Cervi 26 Confirmation		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37856.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	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	11	5.4	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	99%		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:	3	
Lab Sample ID:	D93126-3	Date Sampled: 04/19/17
Matrix:	SO - Soil	Date Received: 04/19/17
Method:	SW846-8015B SW846 3546	Percent Solids: 96.3
Project:	Cervi 26 Confirmation	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53395.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	100%		41-134%		

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:	4	Date Sampled:	04/19/17
Lab Sample ID:	D93126-4	Date Received:	04/19/17
Matrix:	SO - Soil	Percent Solids:	98.4
Method:	SW846 8260B		
Project:	Cervi 26 Confirmation		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41738.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

	Initial Weight	Final Volume
Run #1	4.98 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	110%		70-130%
460-00-4	4-Bromofluorobenzene	101%		65-142%
17060-07-0	1,2-Dichloroethane-D4	114%		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:	4						
Lab Sample ID:	D93126-4					Date Sampled:	04/19/17
Matrix:	SO - Soil					Date Received:	04/19/17
Method:	SW846 8015B					Percent Solids:	98.4
Project:	Cervi 26 Confirmation						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37859.D	1	04/26/17	MR	n/a	n/a	GGA1847
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	10	5.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	105%		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:	4						
Lab Sample ID:	D93126-4					Date Sampled:	04/19/17
Matrix:	SO - Soil					Date Received:	04/19/17
Method:	SW846-8015B SW846 3546					Percent Solids:	98.4
Project:	Cervi 26 Confirmation						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53383.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.1	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	93%		41-134%		

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:	5	Date Sampled:	04/19/17
Lab Sample ID:	D93126-5	Date Received:	04/19/17
Matrix:	SO - Soil	Percent Solids:	97.8
Method:	SW846 8260B		
Project:	Cervi 26 Confirmation		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41739.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

	Initial Weight	Final Volume
Run #1	5.05 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	101%		65-142%
17060-07-0	1,2-Dichloroethane-D4	108%		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:	5	Date Sampled:	04/19/17
Lab Sample ID:	D93126-5	Date Received:	04/19/17
Matrix:	SO - Soil	Percent Solids:	97.8
Method:	SW846 8015B		
Project:	Cervi 26 Confirmation		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37860.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	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	10	5.2	mg/kg	
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:	5						
Lab Sample ID:	D93126-5					Date Sampled:	04/19/17
Matrix:	SO - Soil					Date Received:	04/19/17
Method:	SW846-8015B SW846 3546					Percent Solids:	97.8
Project:	Cervi 26 Confirmation						

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53397.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	78%		41-134%		

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:	6	Date Sampled:	04/19/17
Lab Sample ID:	D93126-6	Date Received:	04/19/17
Matrix:	SO - Soil	Percent Solids:	97.8
Method:	SW846 8260B		
Project:	Cervi 26 Confirmation		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41740.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

	Initial Weight	Final Volume
Run #1	5.03 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		70-130%
2037-26-5	Toluene-D8	112%		70-130%
460-00-4	4-Bromofluorobenzene	104%		65-142%
17060-07-0	1,2-Dichloroethane-D4	113%		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:	6	
Lab Sample ID:	D93126-6	Date Sampled: 04/19/17
Matrix:	SO - Soil	Date Received: 04/19/17
Method:	SW846 8015B	Percent Solids: 97.8
Project:	Cervi 26 Confirmation	

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37861.D	1	04/26/17	MR	n/a	n/a	GGA1847
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	10	5.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	102%		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:	6	
Lab Sample ID:	D93126-6	Date Sampled: 04/19/17
Matrix:	SO - Soil	Date Received: 04/19/17
Method:	SW846-8015B SW846 3546	Percent Solids: 97.8
Project:	Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53399.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	107%		41-134%		

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:	7	Date Sampled:	04/19/17
Lab Sample ID:	D93126-7	Date Received:	04/19/17
Matrix:	SO - Soil	Percent Solids:	97.1
Method:	SW846 8260B		
Project:	Cervi 26 Confirmation		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41741.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

	Initial Weight	Final Volume
Run #1	5.06 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.51	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.51	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	111%		70-130%
460-00-4	4-Bromofluorobenzene	105%		65-142%
17060-07-0	1,2-Dichloroethane-D4	109%		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:	7	
Lab Sample ID:	D93126-7	Date Sampled: 04/19/17
Matrix:	SO - Soil	Date Received: 04/19/17
Method:	SW846 8015B	Percent Solids: 97.1
Project:	Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37862.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	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	11	5.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
120-82-1	1,2,4-Trichlorobenzene	100%		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:	7	
Lab Sample ID:	D93126-7	Date Sampled: 04/19/17
Matrix:	SO - Soil	Date Received: 04/19/17
Method:	SW846-8015B SW846 3546	Percent Solids: 97.1
Project:	Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53401.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.0 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.3	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	90%		41-134%		

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:	8	Date Sampled:	04/19/17
Lab Sample ID:	D93126-8	Date Received:	04/19/17
Matrix:	SO - Soil	Percent Solids:	96.9
Method:	SW846 8260B		
Project:	Cervi 26 Confirmation		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	5V41742.D	1	04/26/17	MB	n/a	n/a	V5V2339
Run #2							

	Initial Weight	Final Volume
Run #1	5.00 g	5.0 ml
Run #2		

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.52	ug/kg	
108-88-3	Toluene	ND	2.1	1.0	ug/kg	
100-41-4	Ethylbenzene	ND	2.1	0.52	ug/kg	
1330-20-7	Xylene (total)	ND	2.3	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%		70-130%
2037-26-5	Toluene-D8	112%		70-130%
460-00-4	4-Bromofluorobenzene	102%		65-142%
17060-07-0	1,2-Dichloroethane-D4	106%		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:	8	Date Sampled:	04/19/17
Lab Sample ID:	D93126-8	Date Received:	04/19/17
Matrix:	SO - Soil	Percent Solids:	96.9
Method:	SW846 8015B		
Project:	Cervi 26 Confirmation		

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	GA37863.D	1	04/26/17	MR	n/a	n/a	GGA1847
Run #2							

Run #	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	11	5.3	mg/kg	
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:	8	
Lab Sample ID:	D93126-8	Date Sampled: 04/19/17
Matrix:	SO - Soil	Date Received: 04/19/17
Method:	SW846-8015B SW846 3546	Percent Solids: 96.9
Project:	Cervi 26 Confirmation	

Run #	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	FI53403.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
Run #2							

Run #	Initial Weight	Final Volume
Run #1	20.1 g	1.0 ml
Run #2		

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.2	mg/kg	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
84-15-1	o-Terphenyl	87%		41-134%		

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**Custody Documents and Other Forms**

Includes the following where applicable:

- Chain of Custody



ACCUTEST

CHAIN OF CUSTODY

PAGE 1 OF 2

4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.accutest.com

FED-EX Tracking #	Route Order Control #
SGS Account Quote #	SGS Account Job # D93126

Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)												Matrix Codes		
Company Name Verdad	Project Name Cervical Confirmation	Billing Information (if different from Report to)														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 RD - Rinse Blank TB - Trip Blank		
Street Address 1401 17th St. Ste 925	Street Weld Co., CO	Company Name Verdad Oil and Gas																
City Denver	City, State Weld Co., CO	Street Address 5950 Cedar Springs Rd. #200																
Project Contact Mike Cagnetti	Project #	City, State ZIP Dallas, TX 75235																
Phone #	Client Purchase Order #	Attention: Deb Stokes																
Email mcagnetti@verdadoil.com	Project Manager																	
Sampler(s) Name(s) Mike Cagnetti																		
SGS Account Sample #	Field ID / Point of Collection	MEOH/CI Vial #	Collection		Number of preserved bottles												LAB USE ONLY	
			Date	Time	Sampled by	Matrix	# of bottles	H2O	MEOH	H2SO4	H2SO4	DI Water	MEOH	ENCO				
	1a		4/14/17	2:30pm	MSZ	SO	1									61		
	1b					SO										62		
	2a															63		
	2b															64		
	3a															65		
	3b															66		
	4a															67		
	4b															68		
	5a															69		
	5b															70		
	6a															71		
	6b															72		
Turnaround Time (Business days)		Approved By (SGS Account PM) / Date:		Data Deliverable Information		Comments / Special Instructions												
<input checked="" type="checkbox"/> Std. 15 Business Days <input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day Emergency <input type="checkbox"/> 2 Day Emergency <input type="checkbox"/> 1 Day Emergency		<input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> COMBIN <input type="checkbox"/> COMBIN+		<input type="checkbox"/> State Forms Required <input type="checkbox"/> Send Forms to State <input type="checkbox"/> Report by Fax <input type="checkbox"/> Report by PDF <input type="checkbox"/> EDD Format														
Emergency & Rush T/A data available via LabLink		Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial B/C = Results/QC/Narrative (+ = chromatograms)																
Sample Custody must be documented below each time samples change possession, including courier delivery.																		
Requisitioned by: Mike Cagnetti	Date/Time: 4/14/17 1:50	Received By: MSZ	Requisitioned By: 2	Date/Time: 2	Received By: 2													
Requisitioned by: 3	Date/Time: 3	Received By: 3	Requisitioned By: 4	Date/Time: 4	Received By: 4													
Requisitioned by: 5	Date/Time: 5	Received By: 5	Custody Seal # ADP	Intact <input checked="" type="checkbox"/> Not Intact <input type="checkbox"/>	Preserved where applicable <input checked="" type="checkbox"/>	On Ice <input checked="" type="checkbox"/>	Cooler Temp. 2.9											

D93126: Chain of Custody

Page 1 of 3



4036 Youngfield Street, Wheat Ridge, CO 80033
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www.acculast.com

ACCUTEST		4036 Youngfield Street, Wheat Ridge, CO 80033 TEL. 303-425-6021 FAX: 303-425-6854 www.accutest.com		FED-EX Tracking # _____ SGS Accutest Quote # _____		Bottle Order Control # _____ SGS Accutest Job # D9312C		
Client / Reporting Information		Project Information		Requested Analysis (see TEST CODE sheet)				Matrix Codes
Company Name Verdad Street Address 1401 17th St. #925 City Denver Project Contact Mike Cagnetti Phone # mcagneth@verdadil.com Email Mike Cagnetti		Project Name Cervi Z6 Configuration Street _____ City, State Weld Co., CO Project # _____ Client Purchase Order # _____ Project Manager _____ Attention: _____		Billing Information (if different from Report to) Company Name _____ Street Address _____ City, State ZIP _____				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
Sample(s) Name(s) Mike Cagnetti SCS Accutest Sample # _____		Field ID / Point of Collection _____ MECH/DI Vial # _____		Collection Date 4/19/17 Time 2:30 PM Sampled by MTL Matrix SO # of bottles 1 HCl HNO ₃ H ₂ O ₂ H ₂ SO ₄ H ₂ PO ₄ H ₂ CO ₃ H ₂ SiO ₃ H ₂ SO ₄ H ₂ PO ₄ H ₂ CO ₃ H ₂ SiO ₃ DI Water MECH LIME Number of preserved bottles DRO GRO DTEX				
Turnaround Time (Business days) <input checked="" type="checkbox"/> Std. 15 Business Days <input type="checkbox"/> Std. 10 Business Days <input type="checkbox"/> 5 Day RUSH <input type="checkbox"/> 3 Day Emergency <input type="checkbox"/> 2 Day Emergency <input type="checkbox"/> 1 Day Emergency <input type="checkbox"/> Emergency & Rush TIA data available via LabLink		Approved By (SGS Accutest PII): / Date: _____ _____ _____ _____ _____ _____ _____		Data Deliverable Information <input type="checkbox"/> Commercial "A" (Level 1) <input type="checkbox"/> State Forms Required <input type="checkbox"/> Commercial "B" (Level 2) <input type="checkbox"/> Send Forms to State <input type="checkbox"/> COMMONN <input type="checkbox"/> Report by Fax <input type="checkbox"/> COMMONN+ <input type="checkbox"/> Report by PDF <input type="checkbox"/> EDD Format Commercial "A" = Results Only Commercial "B" = Results + QC Summary Commercial BN = Results/QC/Narrative (+ chromatograms)				Comments / Special Instructions _____ _____ _____
Sample Custody must be documented below each time samples change possession, including courier delivery.								
Relinquished by: [Signature] Date Time: 4/19/17 1:30		Received By: [Signature] Date Time: _____		Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____		
Relinquished by: _____ Date Time: _____		Received By: _____ Date Time: _____		Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____		
Relinquished by: _____ Date Time: _____		Received By: _____ Date Time: _____		Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____		
Relinquished by: _____ Date Time: _____		Received By: _____ Date Time: _____		Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____		
Relinquished by: _____ Date Time: _____		Received By: _____ Date Time: _____		Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____		
Relinquished by: _____ Date Time: _____		Received By: _____ Date Time: _____		Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____		
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Relinquished by: _____ Date Time: _____		Received By: _____ Date Time: _____		Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____		
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Relinquished by: _____ Date Time: _____		Received By: _____ Date Time: _____		Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____		
Relinquished by: _____ Date Time: _____		Received By: _____ Date Time: _____		Relinquished By: _____ Date Time: _____		Received By: _____ Date Time: _____		
Relinquished by: _____ Date Time: _____		Received By: _____ 						

D93126: Chain of Custody

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SGS Accutest Sample Receipt Summary

Job Number: D93126

Client: VERDAD

Project: CERVI 26 CONFIRMATION

Date / Time Received: 4/19/2017 3:30:00 PM

Delivery Method:

Airbill #'s: HD

Cooler Temps (Initial/Adjusted): #1: (2.4/2.4):

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: | Bar Therm; | |
| 3. Cooler media: | Ice (Bag) | |
| 4. No. Coolers: | 1 | |

Quality Control Preservation

Y or N

N/A

- | | | | |
|---------------------------------|-------------------------------------|--------------------------|-------------------------------------|
| 1. Trip Blank present / cooler: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" type="checkbox"/> |
| 2. Trip Blank listed on COC: | <input type="checkbox"/> | <input type="checkbox"/> | <input checked="" 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"/> |

Comments

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 recvd 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"/> |

D93126: Chain of Custody

Page 3 of 3

GC/MS Volatiles

5

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: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V2339-MB	5V41719.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples:

Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	50	25	ug/kg	
100-41-4	Ethylbenzene	ND	100	25	ug/kg	
108-88-3	Toluene	ND	100	50	ug/kg	
1330-20-7	Xylene (total)	ND	110	50	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	91% 70-130%
2037-26-5	Toluene-D8	109% 70-130%
460-00-4	4-Bromofluorobenzene	102% 65-142%
17060-07-0	1,2-Dichloroethane-D4	104% 70-130%

Method Blank Summary

Page 1 of 1

Job Number: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V2339-MB	5V41720.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples:

Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.50	ug/kg	
100-41-4	Ethylbenzene	ND	2.0	0.50	ug/kg	
108-88-3	Toluene	ND	2.0	1.0	ug/kg	
1330-20-7	Xylene (total)	ND	2.2	1.0	ug/kg	

CAS No.	Surrogate Recoveries	Limits
1868-53-7	Dibromofluoromethane	89% 70-130%
2037-26-5	Toluene-D8	107% 70-130%
460-00-4	4-Bromofluorobenzene	103% 65-142%
17060-07-0	1,2-Dichloroethane-D4	110% 70-130%

Blank Spike Summary

Page 1 of 1

Job Number: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V2339-BS	5V41717.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples:

Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
71-43-2	Benzene	50	39.2	78	70-130
100-41-4	Ethylbenzene	50	45.5	91	70-130
108-88-3	Toluene	50	44.2	88	70-130
1330-20-7	Xylene (total)	150	137	91	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	93%	70-130%
2037-26-5	Toluene-D8	109%	70-130%
460-00-4	4-Bromofluorobenzene	100%	65-142%
17060-07-0	1,2-Dichloroethane-D4	106%	70-130%

* = Outside of Control Limits.

Blank Spike Summary

Page 1 of 1

Job Number: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
V5V2339-BS	5V41718.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples:

Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Spike ug/kg	BSP ug/kg	BSP %	Limits
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CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	92%	70-130%
2037-26-5	Toluene-D8	108%	70-130%
460-00-4	4-Bromofluorobenzene	102%	65-142%
17060-07-0	1,2-Dichloroethane-D4	105%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D93168-5MS	5V41726.D	1	04/26/17	MB	n/a	n/a	V5V2339
D93168-5MSD	5V41727.D	1	04/26/17	MB	n/a	n/a	V5V2339
D93168-5	5V41725.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples:

Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	D93168-5 ug/kg	Spike Q ug/kg	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND	12700	10500	82	12700	9530	75	10	43-135/30
100-41-4	Ethylbenzene	8180	12700	18400	80	12700	17000	69	8	30-144/30
108-88-3	Toluene	ND	12700	11700	92	12700	10500	82	11	27-144/30
1330-20-7	Xylene (total)	6800	38200	41400	90	38200	37900	81	9	13-154/30

CAS No.	Surrogate Recoveries	MS	MSD	D93168-5	Limits
1868-53-7	Dibromofluoromethane	92%	89%	89%	70-130%
2037-26-5	Toluene-D8	106%	108%	107%	70-130%
460-00-4	4-Bromofluorobenzene	105%	100%	104%	65-142%
17060-07-0	1,2-Dichloroethane-D4	103%	107%	108%	70-130%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: D93126

Account: VEROGTXD Verdad Oil and Gas Corporation

Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D93168-5MS	5V41728.D	1	04/26/17	MB	n/a	n/a	V5V2339
D93168-5MSD	5V41729.D	1	04/26/17	MB	n/a	n/a	V5V2339
D93168-5	5V41725.D	1	04/26/17	MB	n/a	n/a	V5V2339

The QC reported here applies to the following samples:

Method: SW846 8260B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	D93168-5 ug/kg	Spike Q	MS ug/kg	MS %	Spike ug/kg	MSD ug/kg	MSD %	RPD	Limits Rec/RPD
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CAS No.	Surrogate Recoveries	MS	MSD	D93168-5	Limits
1868-53-7	Dibromofluoromethane	88%	89%	89%	70-130%
2037-26-5	Toluene-D8	110%	110%	107%	70-130%
460-00-4	4-Bromofluorobenzene	105%	104%	104%	65-142%
17060-07-0	1,2-Dichloroethane-D4	105%	103%	108%	70-130%

* = 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: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA1847-MB	GA37847.D	1	04/25/17	MR	n/a	n/a	GGA1847

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

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-GRO (C6-C10)	ND	9.9	5.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
120-82-1	1,2,4-Trichlorobenzene	99% 60-140%

Blank Spike Summary

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Job Number: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GGA1847-BS	GA37848.D	1	04/26/17	MR	n/a	n/a	GGA1847

The QC reported here applies to the following samples:

Method: SW846 8015B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-GRO (C6-C10)	109	103	95	70-130

CAS No.	Surrogate Recoveries	BSP	Limits
120-82-1	1,2,4-Trichlorobenzene	105%	60-140%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
D93232-1MS	GA37851.D	1	04/26/17	MR	n/a	n/a	GGA1847
D93232-1MSD	GA37852.D	1	04/26/17	MR	n/a	n/a	GGA1847
D93232-1	GA37850.D	1	04/26/17	MR	n/a	n/a	GGA1847

The QC reported here applies to the following samples:

Method: SW846 8015B

D93126-1, D93126-2, D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	D93232-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-GRO (C6-C10)	ND		148	128	86	148	123	83	4	70-131/30

CAS No.	Surrogate Recoveries	MS	MSD	D93232-1	Limits
120-82-1	1,2,4-Trichlorobenzene	107%	109%	99%	60-140%

* = Outside of Control Limits.

GC Semi-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: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14904-MB2	FI53300.D	1	04/25/17	GN	04/22/17	OP14904	GFI2240

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

D93126-1, D93126-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	40	36	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	117% 41-134%

Method Blank Summary

Job Number: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14904-MB	FI53302.D	1	04/25/17	GN	04/22/17	OP14904	GFI2240

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

D93126-1, D93126-2

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	75% 41-134%

Method Blank Summary

Job Number: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14907-MB	FI53375.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243

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

D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Result	RL	MDL	Units	Q
	TPH-DRO (C10-C28)	ND	10	9.0	mg/kg	

CAS No.	Surrogate Recoveries	Limits
84-15-1	o-Terphenyl	98% 41-134%

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Blank Spike Summary

Job Number: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14904-BS	FI53304.D	1	04/25/17	GN	04/22/17	OP14904	GFI2240

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

D93126-1, D93126-2

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	250	174	70	35-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	106%	41-134%

* = Outside of Control Limits.

Blank Spike Summary

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Job Number: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14907-BS	FI53377.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243

The QC reported here applies to the following samples:

Method: SW846-8015B

D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	Spike mg/kg	BSP mg/kg	BSP %	Limits
	TPH-DRO (C10-C28)	250	280	112	35-130

CAS No.	Surrogate Recoveries	BSP	Limits
84-15-1	o-Terphenyl	101%	41-134%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

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Job Number: D93126

Account: VEROGTXD Verdad Oil and Gas Corporation

Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14904-MS	FI53306.D	1	04/25/17	GN	04/22/17	OP14904	GFI2240
OP14904-MSD	FI53308.D	1	04/25/17	GN	04/22/17	OP14904	GFI2240
D93126-1	FI53310.D	1	04/26/17	GN	04/22/17	OP14904	GFI2240

The QC reported here applies to the following samples:

Method: SW846-8015B

D93126-1, D93126-2

CAS No.	Compound	D93126-1 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		244	147	60	246	137	56	7	10-171/30

CAS No.	Surrogate Recoveries	MS	MSD	D93126-1	Limits
84-15-1	o-Terphenyl	87%	80%	90%	41-134%

* = Outside of Control Limits.

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: D93126
Account: VEROGTXD Verdad Oil and Gas Corporation
Project: Cervi 26 Confirmation

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
OP14907-MS	FI53379.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
OP14907-MSD	FI53381.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243
D93126-4	FI53383.D	1	04/27/17	GN	04/24/17	OP14907	GFI2243

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

D93126-3, D93126-4, D93126-5, D93126-6, D93126-7, D93126-8

CAS No.	Compound	D93126-4 mg/kg	Q	Spike mg/kg	MS mg/kg	MS %	Spike mg/kg	MSD mg/kg	MSD %	RPD	Limits Rec/RPD
	TPH-DRO (C10-C28)	ND		253	264	104	254	262	103	1	10-171/30

CAS No.	Surrogate Recoveries	MS	MSD	D93126-4	Limits
84-15-1	o-Terphenyl	95%	93%	93%	41-134%

* = Outside of Control Limits.