

Devon Energy 333 West Sheridan Avenue Oklahoma City, OK 73102-5015 405 235 3611 Phone www.devonenergy.com

March 28, 2021

RE: Administrative Order number 1RF-6

Victoria Venegas State of New Mexico Energy, Minerals, and Natural Resources Oil Conservation Division 811 S. First St., Artesia NM 88210 (575) 909-0269 Victoria.Venegas@state.nm.us

Dear Ms. Venegas:

This letter is in reference to Administrative Order number 1RF-6. We are requesting closure of the treated water pond at this time per 19.15.34.14 CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS. Enclosed you will find the Form C-147, a sampling map, and analysis for a 5-point composite sample.

Sincerely,

Amanda T. Davis Environmental Professional

Environmentar i rolessiona.

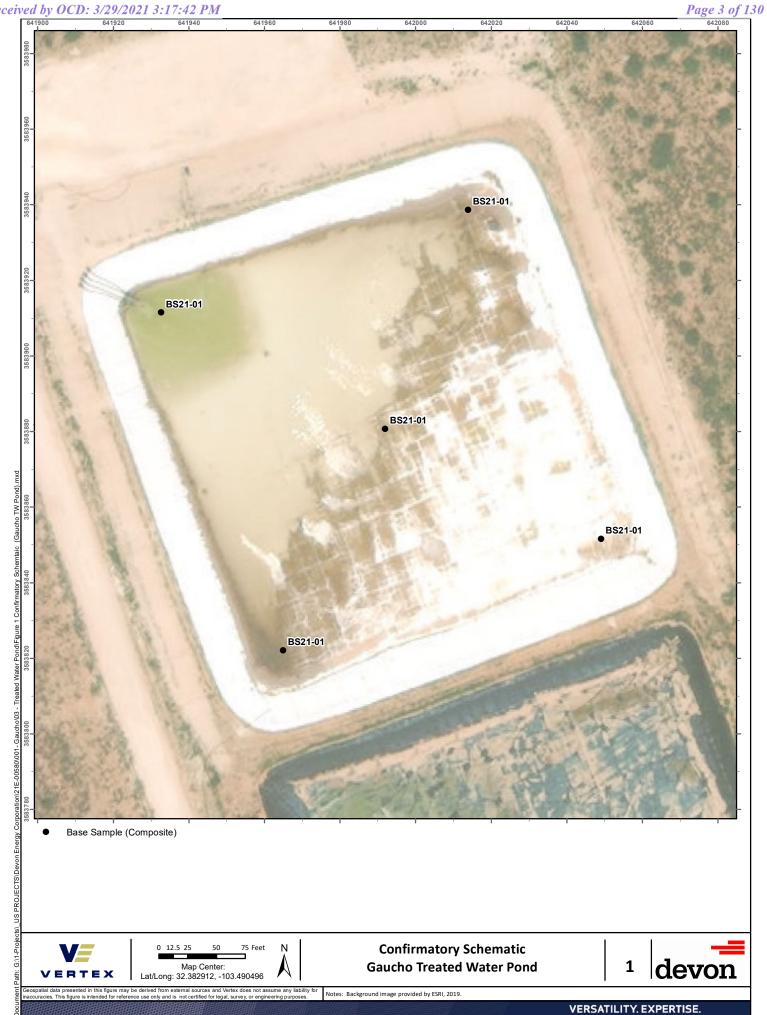
6488 Seven Rivers Highway Artesia, New Mexico 88210 (575) 748-0176 Direct (505) 350-1336 Mobile District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Department
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-147 Revised April 3, 2017

# **Recycling Facility Only**

Type of action: Permit Registration Modification Closure Other (explain)  Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: Devon Energy
2.    Recycling Facility:   Location of recycling facility (if applicable): Latitude   32.38081   Longitude   -103.49033   NAD83     Proposed Use:   Drilling*   Completion*   Production*   Plugging *   *The re-use of produced water may NOT be used until fresh water zones are cased and cemented     Other, requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.     Fluid Storage   Above ground tanks   Activity permitted under 19.15.17 NMAC explain type   Other explain   Recycling Containment     Activity permitted under 19.15.36 NMAC explain type:   Other explain   Recycling Containment     Closure Report (required within 60 days of closure completion):   Recycling Facility Closure Completion Date: 3/15/2021
Variances:  Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, human health, and the environment.  Check the below box only if a variance is requested:  Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested, include the variance information on a separate page and attach it to the C-147 as part of the application.  If a Variance is requested, it must be approved prior to implementation.
Operator Application Certification:  I hereby certify that the information and attachments submitted with this application are true, accurate and complete to the best of my knowledge and belief.  Name (Print): Amanda Trujillo Davis  Signature: Environmental Professional  Date: 3/18/2021  e-mail address: amanda.davis@dvn.com  Telephone: 575-748-0176
S. OCD Representative Signature: Approval/Registration Date:  Title: OCD Permit Number:  OCD Conditions  Additional OCD Conditions on Attachment



Client Name: Devon Energy

Site Name: Gaucho Treated Water Pond

Project #: 21E-00580 Lab Report: 2103688

Table 2. Confirmatory Sampling Laboratory Results														
	Sample Description			Petroleum Hydrocarbons										
			Vol	atile		Inorganic								
Sample ID	Depth (ft)	Sample Date	Benzene (mg/kg)	(Ba)/ga) BTEX (Total)	Gasoline Range ক্রি Organics (GRO)	Diesel Range Organics	স্ত্র Motor Oil Range ক্রি Organics (MRO)	(GRO + DRO)	Total Petroleum	Chloride				
			, o, o,	, t o, o,	( 0, 0,	. 0, 0,	( 0, 0,	( 0, 0,	, o, o,					
BS21-01	0	March 9, 2021	-	-	-	-	-	-	-	460				

<sup>&</sup>quot;-" - Not applicable/assessed

Bold and shaded indicates exceedance outside of applied action level



**Analytical Report** Lab Order **2103688** 

# Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT: Devon Energy Client Sample ID: BS21-01

Project:Gaucho Treated Frac PondCollection Date: 3/9/2021 1:30:00 PMLab ID:2103688-001Matrix: MEOH (SOIL)Received Date: 3/12/2021 4:40:00 PM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed

 EPA METHOD 300.0: ANIONS
 Analyst: VP

 Chloride
 460
 61
 mg/Kg
 20
 3/12/2021 5:52:52 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 1 of 0

**Client Name: Devon Energy** 

Site Name:Gaucho Treated Water Pond

Project #: 21E-00580 Lab Reports: N/A

		Table 2	. Characte	rization Sa	mpling Fie	ld Screenir	ng and Lab	oratory Re	sults					
	Sample Description		F	ield Screeni	ng	Petroleum Hydrocarbons								
						Vol	atile			Inorganic				
Sample ID	Depth (ft)	Sample Date	Volatile Organic Compounds (PID)	Extractable Organic Compounds (Petro Flag)	Inorganics   (Electrical Conductivity)	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride	
			(ppm)	(ppm)	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	
WS21-03	0-4	March 9, 2021	-	-	45	-	-	-	-	-	-	-	-	
WS21-03	4-8	March 9, 2021	-	-	298	-	-	-	-	-	-	-	-	
WS21-04	0-4	March 9, 2021	-	-	164	-	-	-	-	-	-	-	-	
WS21-04	4-8	March 9, 2021	-	-	175	-	-	-	-	-	-	-	-	
BH21-07	8	March 9, 2021	-	-	12,550	-	-	-	-	-	-	-	-	

<sup>&</sup>quot;-" - Not applicable/assessed

Bold and grey shaded indicates approaching, or exceedance outside of, NM OCD closure criteria Bold and green shaded indicates a re-sample of areas previously exceeding NM OCD closure criteria





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

March 15, 2021

Monica Peppin Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Gaucho Treated Frac Pond OrderNo.: 2103688

#### Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/12/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

anded

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report
Lab Order 2103688

Date Reported: 3/15/2021

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-01

Project:Gaucho Treated Frac PondCollection Date: 3/9/2021 1:30:00 PMLab ID:2103688-001Matrix: MEOH (SOIL)Received Date: 3/12/2021 4:40:00 PM

 Analyses
 Result
 RL
 Qual
 Units
 DF
 Date Analyzed
 Batch

 EPA METHOD 300.0: ANIONS
 Chloride
 460
 61
 mg/Kg
 20
 3/12/2021 5:52:52 PM
 58702

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 2

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2103688** 

15-Mar-21

**Client:** Devon Energy

**Project:** Gaucho Treated Frac Pond

Sample ID: MB-58702 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58702 RunNo: 75898

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686278 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58702 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58702 RunNo: 75898

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686280 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.6 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107

# Sample Log-In Check List

Website: clients.hallenvironmental.com Client Name: **Devon Energy** Work Order Number: 2103688 RcptNo: 1 Received By: Sean Livingston 3/12/2021 4:40:00 PM Completed By: **Desiree Dominguez** 3/12/2021 4:42:50 PM Reviewed By: 56-C 3/12/21 Chain of Custody 1. Is Chain of Custody complete? Not Present Yes 🗸 No 🗌 2. How was the sample delivered? Courier Log In 3. Was an attempt made to cool the samples? Yes V No NA 🗌 4. Were all samples received at a temperature of >0° C to 6.0°C No 🗌 Yes 🗸 NA 🗌 5. Sample(s) in proper container(s)? Yes 🗸 No 🗌 6. Sufficient sample volume for indicated test(s)? Yes 🗸 No 7. Are samples (except VOA and ONG) properly preserved? 1 No Yes 8. Was preservative added to bottles? No 🗸 NA 🗌 Yes 9. Received at least 1 vial with headspace <1/4" for AQ VOA? No 🗌 NA 🗸 Yes Yes 🗌 10. Were any sample containers received broken? No 🗸 # of preserved bottles checked 11. Does paperwork match bottle labels? Yes 🗸 No 🗌 for pH: (Note discrepancies on chain of custody) (<2 or >12 unless noted) Adjusted? 12. Are matrices correctly identified on Chain of Custody? Yes 🗸 No 13. Is it clear what analyses were requested? **V** No Checked by: DAD 3/12/21 14. Were all holding times able to be met? Yes 🗸 No 🗌 (If no, notify customer for authorization.) Special Handling (if applicable) 15. Was client notified of all discrepancies with this order? Yes No 🗌 NA 🗸 Person Notified: Date: By Whom: Via: eMail Phone Fax Regarding: Client Instructions: 16. Additional remarks: 17. Cooler Information Cooler No Temp °C Condition Seal Intact | Seal No Seal Date Signed By

5.6

Good

ROUMENTAL LABORATORY OF STATE	37109				əsdA\tr	Jəsə	n4)	orm	2014	) lsjo l		,						Day None	vac.
HALL ENVIRONMENT ANALYSIS LABORATO	www.rialietiviroriinterital.com kins NE - Albuquerque, NM 87109	10	Analysis Request	<sup>†</sup> O\$	SMISO PO4, S	10 <sup>5</sup> '	s 3, 1/	0158 Iletall ON (A	by 8 N	PAHs CI, F, 8260 ( 8270 (	\.				The state of the s			STECK BILL DEVO	Morney For Find 411
	4901 Hawkins NE	Tel. 505-		(0)	,2 (805	7 DR	O5	TBE 7(GF	1910 190	XЭТ8 )8:НЧТ							-	Remarks	
Time: 5 day Sam≥ day	Treated Frac		100 085		PRPPIN	7.0	es 🗆 No	1	g cF): からせついい	Preservative HEAL No. Type	100-							Date Time	Date
Turn-Around Time	69UCh0	1		Project Manager:	Monica	Sampler: ∠ \	On Ice:	# of Coolers: 1	Cooler Lemp(including CF):	Container Pres	402 708		971	6				Received by: Via:	Received hv. Via.
Chain-of-Custody Record	F. 12.				☐ Level 4 (Full Validation)	☐ Az Compliance	er			Sample Name	1 RSZ1-01							shed by:	shod hv.
Chain-of-C	Mailing Address:		e #:	email or Fax#:	QA/QC Package:   Standard	Accreditation:   Az C		□ EDD (Type)	v	Time Matrix	1:8050:1		g est			-		Time: Relinquished by:	Time: Relinquished by:
Olient:	Maili		Phone #:	ema	QA/Q	Accr	Z			Date	319							Date:	.0460



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

March 22, 2021

Monica Peppin Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Gaucho Treated Frac Pond OrderNo.: 2103688

#### Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 1 sample(s) on 3/12/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 15, 2021.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

# Analytical Report Lab Order 2103688

Date Reported: 3/22/2021

# Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-01

Project:Gaucho Treated Frac PondCollection Date: 3/9/2021 1:30:00 PMLab ID:2103688-001Matrix: MEOH (SOIL)Received Date: 3/12/2021 4:40:00 PM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	460	61	mg/Kg	20	3/12/2021 5:52:52 PM	58702
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: JME
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/18/2021 8:05:05 AM	58794
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/18/2021 8:05:05 AM	58794
Surr: DNOP	85.8	70-130	%Rec	1	3/18/2021 8:05:05 AM	58794
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/20/2021 12:15:36 AM	58791
Surr: BFB	99.5	75.3-105	%Rec	1	3/20/2021 12:15:36 AM	58791
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: NSB
Benzene	ND	0.024	mg/Kg	1	3/20/2021 12:15:36 AM	58791
Toluene	ND	0.049	mg/Kg	1	3/20/2021 12:15:36 AM	58791
Ethylbenzene	ND	0.049	mg/Kg	1	3/20/2021 12:15:36 AM	58791
Xylenes, Total	ND	0.097	mg/Kg	1	3/20/2021 12:15:36 AM	58791
Surr: 4-Bromofluorobenzene	99.5	80-120	%Rec	1	3/20/2021 12:15:36 AM	58791

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2103688** 

22-Mar-21

**Client:** Devon Energy

**Project:** Gaucho Treated Frac Pond

Sample ID: MB-58702 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58702 RunNo: 75898

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686278 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58702 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58702 RunNo: 75898

Prep Date: 3/12/2021 Analysis Date: 3/12/2021 SeqNo: 2686280 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 95.6 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 6

# **OC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

2103688 22-Mar-21

WO#:

**Client:** Devon Energy

**Project:** Gaucho Treated Frac Pond

Sample ID: MB-58794 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58794 RunNo: 76025

Prep Date: 3/17/2021 Analysis Date: 3/18/2021 SeqNo: 2691573 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.2 10.00 91.5 70 130

Sample ID: LCS-58794 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58794 RunNo: 76025

Prep Date: 3/17/2021 Analysis Date: 3/18/2021 SeqNo: 2691575 Units: mg/Kg

Analyte PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 49 10 50.00 98.1 68.9 141 Surr: DNOP 4.2 5.000 83.3 70 130

Sample ID: 2103688-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BS21-01** Batch ID: **58794** RunNo: **76025** 

Prep Date: 3/17/2021 Analysis Date: 3/18/2021 SeqNo: 2691599 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 46 47.98 0 15 9.6 95.2 184

Surr: DNOP 3.9 4.798 82.1 70 130

Sample ID: 2103688-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BS21-01** Batch ID: **58794** RunNo: **76025** 

Prep Date: 3/17/2021 Analysis Date: 3/18/2021 SeqNo: 2691601 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte POI Diesel Range Organics (DRO) 45 9.8 49.07 0 92.4 15 184 0.747 23.9 Surr: DNOP 4.907 79.4 70 130 0 3.9 0

Sample ID: MB-58798 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58798 RunNo: 76064

Prep Date: 3/18/2021 Analysis Date: 3/19/2021 SeqNo: 2693658 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual Surr: DNOP 9.7 10.00 97.0 70 130

Sample ID: LCS-58798 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58798 RunNo: 76064

Prep Date: 3/18/2021 Analysis Date: 3/19/2021 SeqNo: 2693659 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

#### Qualifiers:

\* Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

# **QC SUMMARY REPORT**

# Hall Environmental Analysis Laboratory, Inc.

WO#: **2103688 22-Mar-21** 

**Client:** Devon Energy

**Project:** Gaucho Treated Frac Pond

Sample ID: LCS-58798 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58798 RunNo: 76064

Prep Date: 3/18/2021 Analysis Date: 3/19/2021 SeqNo: 2693659 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.5 5.000 90.8 70 130

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 6

# **OC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2103688 22-Mar-21

**Client: Devon Energy** 

**Project:** Gaucho Treated Frac Pond

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: G76071 RunNo: 76071

Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693889 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result LowLimit HighLimit Qual

Surr: BFB 1000 1000 99.7 75.3 105

Sample ID: 2.5ug gro Ics SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: G76071 RunNo: 76071

Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693890 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Surr: BFB 1100 1000 113 75.3 105 S

Sample ID: mb-58791 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 58791 RunNo: 76071

Prep Date: 3/17/2021 Analysis Date: 3/19/2021 SeqNo: 2693921 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Analyte Qual

105

Gasoline Range Organics (GRO) ND 5.0 Surr: BFB 980 1000 97.5 75.3

Sample ID: Ics-58791 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 58791 RunNo: 76071

Prep Date: 3/17/2021 Analysis Date: 3/19/2021 SeqNo: 2693922 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result I owl imit Qual Gasoline Range Organics (GRO) 24 5.0 25.00 97.4 80 120

Surr: BFB 1100 1000 108 75.3 105 S

Sample ID: 2103688-001ams SampType: MS TestCode: EPA Method 8015D: Gasoline Range

Client ID: BS21-01 RunNo: 76071 Batch ID: 58791

Prep Date: 3/17/2021 Analysis Date: 3/20/2021 SegNo: 2693924 Units: mg/Kg

PQL SPK Ref Val %REC HighLimit %RPD **RPDLimit** Result SPK value LowLimit Qual 25.00 Gasoline Range Organics (GRO) 5.0 n 96.7 61.3 24 114 Surr: BFB 1100 1000 112 75.3 105 S

Sample ID: 2103688-001amsd SampType: MSD TestCode: EPA Method 8015D: Gasoline Range

Client ID: BS21-01 Batch ID: 58791 RunNo: 76071

Prep Date: 3/17/2021 Analysis Date: 3/20/2021 SeqNo: 2693925 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Gasoline Range Organics (GRO) 20 23 4.8 24.04 0 93.7 61.3 114 7.07

Surr: BFB 1100 961.5 75.3 105 0 0 S 112

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

# **OC SUMMARY REPORT**

## Hall Environmental Analysis Laboratory, Inc.

WO#: 2103688

22-Mar-21

**Client: Devon Energy** 

**Project:** Gaucho Treated Frac Pond

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: **B76071** RunNo: 76071

Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693940 Units: %Rec

SPK value SPK Ref Val %RPD **RPDLimit** Analyte Result %REC LowLimit HighLimit Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 99.9 80 120

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: **B76071** RunNo: 76071

Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693941 Units: %Rec

SPK value SPK Ref Val %REC %RPD **RPDLimit** Analyte Result PQL LowLimit HighLimit Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 102 120

Sample ID: mb-58791 SampType: MBLK TestCode: EPA Method 8021B: Volatiles Client ID: PBS Batch ID: 58791 RunNo: 76071 Prep Date: 3/17/2021 Analysis Date: 3/19/2021 SeqNo: 2693972 Units: mg/Kg PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Result ND 0.025 Benzene ND 0.050 Toluene Ethylbenzene ND 0.050

98.2

80

120

Sample ID: LCS-58791 SampType: LCS TestCode: EPA Method 8021B: Volatiles

1.000

Client ID: LCSS Batch ID: 58791 RunNo: 76071

0.10

ND

0.98

Analysis Date: 3/19/2021 SeqNo: 2693973

Prep Date: 3/17/2021 Units: mg/Kg Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte Benzene 0.92 0.025 1.000 0 92.5 80 120 0.050 1.000 0 93.0 80 120 Toluene 0.93 Ethylbenzene 0.93 0.050 1.000 0 92.6 80 120 Xylenes, Total 2.7 0.10 3.000 0 91.2 80 120 Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

#### Qualifiers:

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- Holding times for preparation or analysis exceeded Н
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

# Sample Log-In Check List

Client Name:	Devon Energy	Work Order Nun	nber: 2103688		RcptNo: 1	
Received By:	Sean Livingston	3/12/2021 4:40:00	РМ	S_L	not-	
Completed By:	Desiree Dominguez	3/12/2021 4:42:50	РМ	THE		
Reviewed By:	56c 3/12/21					
Chain of Cust	ody					
1. Is Chain of Cu	stody complete?		Yes 🗸	No 🗌	Not Present	
2. How was the s	ample delivered?		Courier			
Log In						
	ot made to cool the samples	5?	Yes 🗸	No 🗌	NA 🗆	
4. Were all sampl	es received at a temperatur	re of >0° C to 6.0°C	Yes 🔽	No 🗌	NA 🗆	
5. Sample(s) in p	roper container(s)?		Yes 🗹	No 🗌		
6. Sufficient samp	ele volume for indicated test	(s)?	Yes 🗸	No 🗌		
7. Are samples (e.	xcept VOA and ONG) prope	erly preserved?	Yes 🗸	No 🗌		
8. Was preservati	ve added to bottles?		Yes	No 🗸	NA 🗌	
9. Received at lea	st 1 vial with headspace <1	/4" for AQ VOA?	Yes	No 🗌	NA 🗸	
10. Were any sam	ple containers received brok	en?	Yes	No 🗸		
(4.5					# of preserved bottles checked	
	k match bottle labels?		Yes 🗸	No 🗌	for pH:	
	rrectly identified on Chain o	f Custody?	Yes 🗸	No 🗆	(<2 or >12 Adjusted?	unless noted)
	analyses were requested?	,	Yes 🗹	No 🗆		
	g times able to be met?		Yes 🗸	No 🗆	Checked by: DAT	3/12/2
	ng (if applicable)					
	fied of all discrepancies with	this order?	Yes	No 🗌	NA 🗸	
Person N	otified:	Date	PRO-CE-TANGENERAL MATERIAL PROPERTY OF	MANAGEMENT TO THE ANGEL STREET,		
By Whom	1:	Via:	eMail P	hone  Fax	In Person	
Regarding	g:	AT THE PARTY OF TH		A SOUTH REAL PROPERTY AND ADDRESS OF THE PARTY OF THE PAR	NAME OF THE PARTY	
Client Ins		THE PERSON NAMED IN COLUMN TO PROPERTY OF THE PERSON NAMED IN COLUMN TO PERSON NAMED IN COLUMN T		Control of the Contro	PLACE AND LOCAL SERVICE AND A PARTY STREET AND ASSESSED.	
16. Additional rema	arks:					
7. Cooler Inform	ation					
Cooler No		Seal Intact Seal No	Seal Date	Signed By		
1	5.6 Good					

Receiv	RONMENTAL	LABORALORY	87109								2) 0728 O listoT		· · · · · · · · · · · · · · · · · · ·		1 H H 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1001	70 BJC/-01.		DEVON DENONS	Williams	
	HALL ENVI	ANALTSIS	www.hallenvironmental.com	 Analysis	(0	O / MR	S80 / (Γ. (ΣSΣΣ	8/8/ 504 00 s	OFS bod (5 10 10 10 10 10 10 10 10 10 10 10 10 10	estic Metho by 83 8 Me 8 Me	BTEX / 8081 P EDB ( <i>N</i> EDB ( <i>N</i> CCI F, I	\hat{\chi}					1011 0001 7011	THE DIFWITT	for Menico 193/16	Remarks: Direct Rill I		
Turn-Around Time:	Same day	]	SOUCHO Treated Frac	215-05580-001	Project Manager:	MONICA PRPPIN	Sampler: $\angle \triangle$	On Ice: T-Yes   No	# of Coolers: 1	Cooler Temp(including cF): 5. CTO=5. (°C)	Container Preservative Type and # Type	1 1								Received by: Via: Date Time	Received by: Via: Date Time	
Chain-of-Custody Record	Client:	(100.50)	Mailing Address:	Phone #:	email or Fax#:	QA/QC Package:  ☐ Standard ☐ Level 4 (Full Validation)	Accreditation:   Az Compliance		□ EDD (Type)	80 <sub>40 - 7</sub>	Date Time Matrix Sample Name	1,050		3-3						Date: Time: Relinquished by:	Date: Time: Relinquished by:	



Hall Environmental 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975

Website: clients.hallenvironmental.com

Acct. Code:

**INVOICE** 

Invoice#: 2103688 Date: 3/15/2021

INVOICE TO: ATTN: ACCOUNTS PAYABLE

Devon Energy Amanda Davis

6488 Seven Rivers Highway

Artesia, NM 88210

Work Order: 2103688

Date Received: 3/12/2021

Priority:

Rush

Phone: Fax:

(575) 748-0176

Project:

Gaucho Treated Frac Pond

13987801/DVNART22/21E-00580-0

PO: CaseNo:

Submitted By: Devon Energy

Monica Peppin

Pre-Paid Amount:

**Total Payable Amount:** 

Item Description	Matrix	Remarks	Qty	Unit Price	Total
EPA Method 300.0: Anions	MeOH (Soil)		1	45.00	45.00
				Sub Tota	al: \$45.00
				Misc. Charge	es: \$0.00
				Surcharg	ge: 0.00%
				Ta	7.875%
				<b>INVOICE</b> Tota	d: \$48.54

TERMS:

All invoices are due and payable net 30 days from receipt.

\$0.00

\$48.54

### Received by OCD: 3/29/2021 3:17:42 PM

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

# State of New Mexico Energy Minerals and Natural Resources Department Oil Conservation Division

Page 22 of 130 Form C-147 Revised April 3, 2017

Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505

Recycling Facility and/or Recycling Containment
Type of Facility: Recycling Facility Recycling Containment*
Type of action: Permit Registration
Modification Extension  Closure Other (explain)
* At the time C-147 is submitted to the division for a Recycling Containment, a copy shall be provided to the surface owner.
Be advised that approval of this request does not relieve the operator of liability should operations result in pollution of surface water, ground water or the environment. Nor does approval relieve the operator of its responsibility to comply with any other applicable governmental authority's rules, regulations or ordinances.
Operator: DEVON ENERGY (For multiple operators attach page with information) OGRID #:  Address: 333 W. SHERIDAN ST. BURHOMA CITY, OK 73/02 - 82/60
Facility or well name (include API# if associated with a well): North GANCHO CONTAINMENT & RECYCLING FACILITY
OCD Permit Number: 1RF-6 (For new facilities the permit number will be assigned by the district office)
U/L or Qtr/Qtr/Vu/4 NE/4 Section 30 Township 225 Range 34 E County: LEA County
Surface Owner:  Federal State Private Tribal Trust or Indian Allotment
Recycling Facility:  Location of recycling facility (if applicable): Latitude 32.3808/  Proposed Use: Drilling* Completion* Production* Plugging *  *The re-use of produced water may NOT be used until fresh water zones are cased and cemented  Other, requires permit for other uses. Describe use, process, testing, volume of produced water and ensure there will be no adverse impact on groundwater or surface water.  Fluid Storage  Above ground tanks Recycling containment Activity permitted under 19.15.17 NMAC explain type  Activity permitted under 19.15.36 NMAC explain type:  Other explain  For multiple or additional recycling containments, attach design and location information of each containment  Closure Report (required within 60 days of closure completion): Recycling Facility Closure Completion Date:  Recycling Facility Closure Completion Date:
Recycling Containment:
Annual Extension after initial 5 years (attach summary of monthly leak detection inspections for previous year)
Center of Recycling Containment (if applicable): Latitude 31. 3808/ Longitude103. 49033 NAD83
For multiple or additional recycling containments, attach design and location information of each containment
Lined Liner type: Thickness 60 mil LLDPE HDPE PVC Other 30 MIL (SECONDARY)
String-Reinforced
X String-Reinforced  Liner Seams:   Welded   Factory   Other   FIELD WELDS Volume: 300,000 bbl Dimensions: L 415 x W 415 x D 15    Volume: 300,000 bbl Dimensions: L 415 x W 415 x D 15   Volume: 300,000 bbl Dimensions: L 415 x W 41
Recycling Containment Closure Completion Date: 3/15/2021

Bonding:  Covered under bonding pursuant to 19.15.8 NMAC per 19.15.34.15(A)(2) NMAC (These containments are limited to only the wells owned or									
operated by the owners of the containment.)									
Bonding in accordance with 19.15.34.15(A)(1). Amount of bond \$ (work on these facilities cannot commence to	until bonding								
amounts are approved)									
Attach closure cost estimate and documentation on how the closure cost was calculated.									
Attach closure cost estimate and documentation on now the closure cost was calculated.									
Fencing:  Four foot height, four strands of barbed wire evenly spaced between one and four feet  Alternate. Please specify  CAME FENCE									
Signs:    12"x 24", 2" lettering, providing Operator's name, site location, and emergency telephone numbers   Signed in compliance with 19.15.16.8 NMAC									
7.									
<u>Variances</u> :									
Justifications and/or demonstrations that the proposed variance will afford reasonable protection against contamination of fresh water, hun	nan health, and the								
environment.  Check the below box only if a variance is requested:  Variance(s): Requests must be submitted to the appropriate division district for consideration of approval. If a Variance is requested variance information on a separate page and attach it to the C-147 as part of the application.  If a Variance is requested, it must be approved prior to implementation.	ed, include the								
8. Siting Criteria for Describing Containment									
Siting Criteria for Recycling Containment  Instructions: The applicant must provide attachments that demonstrate compliance for each siting criteria below as part of the application examples of the siting attachment source material are provided below under each criteria.	ntion. Potential								
General siting									
Ground water is less than 50 feet below the bottom of the Recycling Containment.  NM Office of the State Engineer - iWATERS database search; USGS; Data obtained from nearby wells	Yes No								
Within incorporated municipal boundaries or within a defined municipal fresh water well field covered under a municipal ordinance adopted pursuant to NMSA 1978, Section 3-27-3, as amended.  - Written confirmation or verification from the municipality; written approval obtained from the municipality	☐ Yes ☒ No ☐ NA								
Within the area overlying a subsurface mine Written confirmation or verification or map from the NM EMNRD-Mining and Minerals Division	☐ Yes 🔯 No								
Within an unstable area.  - Engineering measures incorporated into the design; NM Bureau of Geology & Mineral Resources; USGS; NM Geological Society; topographic map	☐ Yes 🛱 No								
Within a 100-year floodplain. FEMA map	☐ Yes 🛛 No								
Within 300 feet of a continuously flowing watercourse, or 200 feet of any other significant watercourse, or lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark).  - Topographic map; visual inspection (certification) of the proposed site	☐ Yes 🖾 No								
Within 1000 feet from a permanent residence, school, hospital, institution, or church in existence at the time of initial application.  - Visual inspection (certification) of the proposed site; aerial photo; satellite image	☐ Yes 💢 No								
Within 500 horizontal feet of a spring or a fresh water well used for domestic or stock watering purposes, in existence at the time of initial application.  - NM Office of the State Engineer - iWATERS database search; visual inspection (certification) of the proposed site	☐ Yes 🎝 No								
Within 500 feet of a wetland.  - US Fish and Wildlife Wetland Identification map; topographic map; visual inspection (certification) of the proposed site	☐ Yes 💢 No								

Recycling Facility and/or Containment Checklist:  Instructions: Each of the following items must be attached to the application. I  Design Plan - based upon the appropriate requirements.  Operating and Maintenance Plan - based upon the appropriate requirements  Closure Plan - based upon the appropriate requirements.  Site Specific Groundwater Data -  Siting Criteria Compliance Demonstrations -  Certify that notice of the C-147 (only) has been sent to the surface owner.	
Operator Application Certification:  I hereby certify that the information and attachments submitted with this application  Name (Print): ROBERT W. RAUP II  Signature: W. RAUP II  e-mail address: Bob. Raup & dvn. com	on are true, accurate and complete to the best of my knowledge and belief.  Title:   Date:     Date:
OCD Representative Signature: Victoria Venegas  Title: Environmental Specialist  OCD Conditions  Additional OCD Conditions on Attachment	Approval Date: 06/23/2021  OCD Permit Number: 1RF-6 Facility ID fTO1527936646

#### Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD
Sent: Thursday, April 22, 2021 2:40 PM

To: Inscore, Josh; Davis, Amanda; Hernandez, Emily, EMNRD

Cc: Bratcher, Mike, EMNRD; 'rmann@slo.state.nm.us'; MNaranjo@slo.state.nm.us;

bboone@slo.state.nm.us

**Subject:** RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho

Containment

#### 1RF-6 - North Gaucho Containment and Recycling Facility. Closure Report.

NMOCD is reviewing the closure request submitted by [6137] DEVON ENERGY PRODUCTION COMPANY, LP, for 1RF-6 - North Gaucho Containment and Recycling Facility in B-20-22S-34E, Lea County, New Mexico. Before continuing with the evaluation of this closure report, the Division requests the following additional information:

- Devon must submit all copies of 1RF-6 North Gaucho Containment and Recycling Facility's leak detection
  system inspection logs. Operators should include the detailed inspection records for the registration/permit
  period. Inspection records should include, but are not limited to, notes describing the weekly leak detection
  system testing and operations, the absence/presence of water in the leak detection system, the last time the
  containment was cleaned, and any oil product, debris, or foreign material found in the leak detection system
  and/or containment.
- 2. Additional delineation samples are required at BH21-07 per 19.15.34.14.C.1.
- 3. Devon must provide geotag grab samples in the vicinity of the location in the pictures below. Please note that if a release has occurred, Devon must remediate the affected area per 19.15.29. NMAC.



Please do not hesitate to contact me if you have further questions or concerns. Regards,

Victoria Venegas • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 811S. First St. | Artesia, NM 88210 (575) 909-0269 | <u>Victoria.Venegas@state.nm.us</u> http://www.emnrd.state.nm.us/OCD/



From: Inscore, Josh < Josh.Inscore@dvn.com> Sent: Thursday, January 21, 2021 9:00 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us>

Cc: Venegas, Victoria, EMNRD < Victoria. Venegas@state.nm.us>; Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us>;

Inscore, Josh < Josh.Inscore@dvn.com>

Subject: [EXT] Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

To whom it may concern:

Devon Energy plans to begin mobilizing equipment to commence closure and site reclamation operations at the North Gaucho Containment in accordance with <u>19.15.34.14</u> CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS on or about January 25, 2021. Closure plan attached for reference.

#### Josh Inscore

Completions Engineer - Delaware Basin

Office: (405) 228-8385 Mobile: (405) 403-1426



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.



Devon Energy 333 West Sheridan Avenue Oklahoma City, OK 73102-5015 405 235 3611 Phone www.devonenergy.com

May 26, 2021

RE: Administrative Order number 1RF-6

Victoria Venegas State of New Mexico Energy, Minerals, and Natural Resources Oil Conservation Division 811 S. First St., Artesia NM 88210 (575) 909-0269 Victoria.Venegas@state.nm.us

Dear Ms. Venegas:

This letter is in response to the email we received on April 24, 2021 for Administrative Order number 1RF-6 request for closure. Please see the following requests with corresponding responses:

1. Devon must submit all copies of 1RF-6 - North Gaucho Containment and Recycling Facility's leak detection system inspection logs. Operators should include the detailed inspection records for the registration/permit period. Inspection records should include, but are not limited to, notes describing the weekly leak detection system testing and operations, the absence/presence of water in the leak detection system, the last time the containment was cleaned, and any oil product, debris, or foreign material found in the leak detection system and/or containment.

Please see Attachment 1

2. Additional delineation samples are required at BH21-07 per 19.15.34.14.C.1.

Delineation samples were taken at BH21-07. Please see Attachment 2

3. Devon must provide geotag grab samples in the vicinity of the location in the pictures below. Please note that if a release has occurred, Devon must remediate the affected area per 19.15.29. NMAC.

Picture 1 labeled 32.381677 -103.490200 is located outside of the 1RF-6 in a freshwater impoundment to the south. To our knowledge no release has occurred outside of the treated water pond. However, prior to closing the freshwater pond, we conducted a site investigation. Attachment 3 was submitted to Ryan Mann, SLO, and Merchant Livestock, LLC, the current SLO Leasee.

Addressee Name Page 2 May 26, 2021





Picture 2 labeled 32.383340, -103.490883 Please see Attachment 4



Sincerely,

Amanda T. Davis Environmental Professional

Amanda T Davis

6488 Seven Rivers Highway Artesia, New Mexico 88210 (575) 748-0176 Direct (505) 350-1336 Mobile From: <u>Venegas, Victoria, EMNRD</u>

To: <u>Inscore, Josh; Davis, Amanda; Hernandez, Emily, EMNRD</u>

Cc: Bratcher, Mike, EMNRD; "rmann@slo.state.nm.us"; MNaranjo@slo.state.nm.us; bboone@slo.state.nm.us

Subject: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

**Date:** Thursday, April 22, 2021 2:40:45 PM

#### 1RF-6 - North Gaucho Containment and Recycling Facility. Closure Report.

NMOCD is reviewing the closure request submitted by [6137] DEVON ENERGY PRODUCTION COMPANY, LP, for 1RF-6 - North Gaucho Containment and Recycling Facility in B-20-22S-34E, Lea County, New Mexico. Before continuing with the evaluation of this closure report, the Division requests the following additional information:

- 1. Devon must submit all copies of 1RF-6 North Gaucho Containment and Recycling Facility's leak detection system inspection logs. Operators should include the detailed inspection records for the registration/permit period. Inspection records should include, but are not limited to, notes describing the weekly leak detection system testing and operations, the absence/presence of water in the leak detection system, the last time the containment was cleaned, and any oil product, debris, or foreign material found in the leak detection system and/or containment.
- 2. Additional delineation samples are required at BH21-07 per 19.15.34.14.C.1.
- 3. Devon must provide geotag grab samples in the vicinity of the location in the pictures below. Please note that if a release has occurred, Devon must remediate the affected area per 19.15.29. NMAC.



Please do not hesitate to contact me if you have further questions or concerns. Regards,

Victoria Venegas ● Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 811S. First St. | Artesia, NM 88210 (575) 909-0269 | Victoria.Venegas@state.nm.us http://www.emnrd.state.nm.us/OCD/



From: Inscore, Josh < Josh.Inscore@dvn.com>
Sent: Thursday, January 21, 2021 9:00 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us>

**Cc:** Venegas, Victoria, EMNRD <Victoria.Venegas@state.nm.us>; Bratcher, Mike, EMNRD

<mike.bratcher@state.nm.us>; Inscore, Josh <Josh.Inscore@dvn.com>

**Subject:** [EXT] Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho

Containment

#### To whom it may concern:

Devon Energy plans to begin mobilizing equipment to commence closure and site reclamation operations at the North Gaucho Containment in accordance with <a href="mailto:19.15.34.14">19.15.34.14</a> CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS on or about January 25, 2021. Closure plan attached for reference.

#### Josh Inscore

Completions Engineer - Delaware Basin

Office: (405) 228-8385 Mobile: (405) 403-1426



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

# Attachment 1

DATE	Fluid Level	SCADA ISSUES	BIRD DETERRENT ISSUES	FLUID IN LEAN DETECTION	FENCE ISSUES	BERM OR LINER ISSUES	SITE VISIT NOTES
10/27/2015	0.0						
11/12/2015							Liner tightness discovered
12/3/2015	7.0			1			
12/7/2015	5.5			1			Emulsion in NW corner
12/13/2015	3.0			1			Stains present on liner
12/25/2015	6.8	Х		1			Minor erosion on east berm, depth pad floating
12/30/2015	7.0	X		1			Depth sensor floating
1/1/2016	7.5	X		1			Depth sensor floating
1/3/2016	7.5			1			Depth sensor floating
1/23/2016	8.8	X		1			Depth sensor floating
1/26/2016	8.8			1			Depth sensor floating
2/10/2016	2.0			1			
2/16/2016	2.0			1			
3/14/2016	2.0		<u> </u>		1		
3/22/2016	2.0						
3/30/2016	2.0				İ		
4/6/2016	2.0				İ		
4/15/2016	2.0			1			
4/22/2016	1.5						
4/28/2016	1.5			1			
5/4/2016	1.5			1			
5/12/2016	1.0			1			
5/17/2016	1.0			1			
5/24/2016	1.0			1			
6/2/2016	1.0						
6/7/2016	1.0						
6/14/2016	0.5						
6/21/2016	0.5						
6/27/2016							
7/8/2016	1.0						
7/13/2016	0.0						
7/21/2016	0.0						
7/26/2016	0.0						
8/5/2016	0.0						
8/10/2016	0.0						
8/26/2016	0.0			1			
8/31/2016	0.5				1		
9/7/2016	0.0				1		
9/15/2016	0.0				İ		
9/20/2016	0.0				1		
9/27/2016	0.0						
10/2/2016	0.0				İ		
10/11/2016	0.0						
10/26/2016	0.0				İ		
10/18/2016	0.0						
10/31/2016	0.0		1			Erosion on berm	
11/21/2016	0.0		1			Erosion on berm	
11/28/2016	0.0		<u> </u>	1	1	Erosion on berm	<u> </u>

12/9/2016	0.0		l	Erosion on berm	
12/17/2016	0.0			Erosion on berm	
12/26/2016	0.0 X			Erosion on berm	SCADA not operational
1/2/2017	0.0			Erosion on berm	SCADA NOT OPERATIONAL
1/9/2017	10.5 X			Erosion on berm	SCADA not operational
1/16/2017	11.0 X			Erosion on berm	SCADA not operational
1/23/2017	0.0			Erosion on berm	3CADA NOT Operational
1/30/2017	0.0			Erosion on berm	
2/6/2017	0.0			Erosion on berm	
2/13/2017	2.0			Erosion on berm	
2/20/2017	2.0			LIOSION ON BEIN	
2/27/2017	0.0				
3/6/2017	4.0				
3/13/2017	6.0				
3/20/2017	6.0				
3/27/2017	8.0			Erosion on berm	
4/3/2017	6.5	+		Erosion on bellil	
4/10/2017	6.5	+			
4/17/2017	6.0	+			
4/24/2017	5.5				
5/5/2017	5.0				
5/12/2017	5.0				
5/19/2017	6.0				
5/24/2017	6.0				
6/2/2017	5.0				
6/9/2017	5.0				
6/15/2017	5.0				
6/23/2017	5.5				
6/30/2017	5.5				
7/8/2017	5.0				
7/13/2017	5.0				
7/21/2017	6.0				
7/27/2017	6.0				
8/4/2017	6.0				
8/10/2017	6.0				
8/16/2017	6.0				
8/24/2017	5.5				
9/1/2017	5.5				
9/7/2017	5.5				
9/15/2017	5.5	1			
9/21/2017	5.5				
9/29/2017	5.5				
10/6/2017	5.5	1			
10/12/2017	0.0				
10/20/2017	0.0				
10/24/2017	0.5	1			
11/1/2017	0.5	+			
11/9/2017	0.5				
11/3/2017	1.0	1			
11/25/2017	1.0	+			
11/25/2017	1.0				

	1	1	T	1	T T T T T T T T T T T T T T T T T T T
	/2017 1.				
	/2017 1.	ס			
12/14,		)			
12/22,	/2017 1.	0			
12/30,	/2017 1.	)			
1/5	/2018 2.	5			
1/12	/2018 3.	)			
1/19	/2018 4.	)			
1/26	/2018 6.	)			
	2/2018 7.				
	/2018 7.	5			
	/2018 7.				
	/2018 2.				
	2/2018 2.				
	)/2018 2.				
	/2018 2.				
	/2018 2.				
	/2018 2.				
	5/2018 2.			<del> </del>	
	/2018 2.				
	/2018 2.				
	/2018 2.				
	/2018 2.				
	/2018 2.				
	/2018 2.				
	/2018 2.				
	/2018 2. /2018 2.				
	3/2018 2.				
	/2018 2.				
	/2018 2.				
	5/2018 1.				
	/2018 1.				
	/2018 1.				
	/2018 1.				
	/2018 1.				
	/2018 1.				
	/2018 1.			<b></b>	
	/2018 1.			<b></b>	
	/2018 1.				
	//2018 1.				
11/19,					
11/26,				ļ	
	/2018 1.			ļ	
12/10,					
12/17,					
12/28,					
	./2019 1.				
	//2019 1.				
1/14	/2019 1.	)			

1		1			ı	
1/21/2						
1/28/2						
2/4/2						
2/11/2	019 1.0					
2/18/2	019 1.0					
2/25/2	019 1.0					
3/4/2	0.0					
3/11/2	019 1.0					
3/18/2	019 1.0					
3/25/2						
4/1/2						
4/8/2						
4/15/2						
4/22/2						
4/29/2						
5/6/2						
5/13/2						
5/20/2						
5/27/2						
6/3/2						
6/10/2						
6/17/2						
6/24/2						
7/1/2						
7/1/2						
8/2/2						
8/15/2						
8/23/2						
9/6/2						
9/13/2						
9/20/2						
10/3/2						
10/11/2						
10/25/2						
11/8/2						
12/13/2						
12/27/2						
1/7/2						
1/14/2	020 5.0					
1/31/2						
2/7/2	0.0					
2/14/2	020 0.0					
2/21/2	020 0.0					
2/28/2	020 0.0					
3/6/2	0.0					
3/13/2						
3/20/2						
3/27/2						
4/3/2						
4/10/2						
7/10/2		ı	1	1	ı	1

4/17/2020	0.0			
4/24/2020	0.0			
5/1/2020	0.0			
5/8/2020	0.0			
5/15/2020	0.0			
5/22/2020	0.0			
5/29/2020	0.0			
6/5/2020	0.0			
6/12/2020	0.0			
6/19/2020	0.0			
6/26/2020	0.0			
7/3/2020	0.0			
7/10/2020	0.0			
7/17/2020	0.0			
7/24/2020	0.0			
7/31/2020	0.0			
8/7/2020	0.0			
8/14/2020	0.0			
8/21/2020	0.0			
8/28/2020	0.0			
9/4/2020	0.0			
9/11/2020	0.0			
9/18/2020	0.0			
9/25/2020	0.0			
10/2/2020	0.0			
10/9/2020	0.0			
10/16/2020	0.0			
10/23/2020	0.0			
10/30/2020	0.0			
11/6/2020	0.0			
11/13/2020	0.0			
11/20/2020	0.0			
11/27/2020	0.0			
12/4/2020	0.0			
12/11/2020	0.0			
12/24/2020	0.0			
12/28/2020	0.0			
12/31/2020	0.0			
1/4/2021	0.0			
1/11/2021	0.0			
1/18/2021	0.0			
1 1				

# Attachment 2



Client Name: Devon Energy

Site Name: Gaucho Treated Water Pond

Project #: 21E-00580

Lab Report: 2103688, 2103C43

			Table 2. Confi	matory Sampli	ng Laboratory I	Results				
	Sample Description				Petro	oleum Hydroca	bons			Inorganic
			Vol	atile			Extractable			morganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS21-01	0	March 9, 2021	-	-	-	-	-	-	-	460
BH21-07	13	March 24, 2021	-	-	-	-	-	-	-	64
WS21-03	0-13	March 24, 2021	-	-	-	-	-	-	-	<60
WS21-04	0-13	March 24, 2021	-	-	-	-	-	-	-	260

<sup>&</sup>quot;-" - Not applicable/assessed

Bold and shaded indicates exceedance outside of applied action level





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

April 02, 2021

Monica Peppin
Devon Energy
6488 Seven Rivers Highway
Artesia, NM 88210

TEL: (505) 350-1336

FAX

RE: Gauch Treated Frac Pond OrderNo.: 2103C43

#### Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/26/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

Indes

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order: **2103C43**Date Reported: **4/2/2021** 

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Lab Order: 2103C43

**Project:** Gauch Treated Frac Pond

**Lab ID:** 2103C43-001 **Collection Date:** 3/24/2021 10:00:00 AM

Client Sample ID: BH21-07 13' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: VP

 Chloride
 64
 60
 mg/Kg
 20
 4/1/2021 2:16:36 PM
 59125

**Lab ID:** 2103C43-002 **Collection Date:** 3/24/2021 10:30:00 AM

Client Sample ID: WS21-04 0-13' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

 EPA METHOD 300.0: ANIONS
 Analyst: VP

 Chloride
 260
 60
 mg/Kg
 20
 4/1/2021 2:29:00 PM
 59125

**Lab ID:** 2103C43-003 **Collection Date:** 3/24/2021 10:35:00 AM

Client Sample ID: WS21-03 0-13' Matrix: SOIL

Analyses Result RL Qual Units DF Date Analyzed Batch ID

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride ND 60 mg/Kg 20 4/1/2021 2:41:25 PM 59125

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 2

### **QC SUMMARY REPORT**

#### Hall Environmental Analysis Laboratory, Inc.

WO#: 2103C43 02-Apr-21

**Client:** Devon Energy

**Project:** Gauch Treated Frac Pond

Sample ID: MB-59125 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 59125 RunNo: 76378

Prep Date: 4/1/2021 Analysis Date: 4/1/2021 SeqNo: 2705293 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-59125 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 59125 RunNo: 76378

Prep Date: 4/1/2021 Analysis Date: 4/1/2021 SeqNo: 2705294 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 16 1.5 15.00 0 105 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

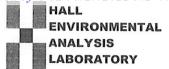
E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 2 of 2



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

## Sample Log-In Check List

Client Name: Devon Ene	rgy Work Orde	r Number: 2103C43		RcptNo:	1
Received By: Juan Roja	as 3/26/2021 7:	35:00 AM	Guaran g		
Completed By: Cheyenne	Cason 3/26/2021 8:	31:51 AM			
Reviewed By:	3/26/21				
Chain of Custody					
1. Is Chain of Custody comp	lete?	Yes 🗸	No 🗌	Not Present	
2. How was the sample deliv	ered?	<u>Courier</u>			
Log In					
3. Was an attempt made to c	cool the samples?	Yes 🗸	No 🗌	NA 🗌	
4. Were all samples received	at a temperature of >0° C to 6.0	°C Yes 🗹	No 🗌	NA 🗆	
5. Sample(s) in proper contain	ner(s)?	Yes 🗸	No 🗌		
6. Sufficient sample volume for	or indicated test(s)?	Yes 🗸	No 🗌		
7. Are samples (except VOA	and ONG) properly preserved?	Yes 🗸	No 🗌		
8. Was preservative added to	bottles?	Yes	No 🗸	NA 🗌	
9. Received at least 1 vial with	h headspace <1/4" for AQ VOA?	Yes	No 🗌	NA 🗸	10
10. Were any sample containe	ers received broken?	Yes	No 🗸	# of preserved	
11. Does paperwork match bot (Note discrepancies on cha		Yes 🗹	No 🗆	bottles checked for pH:	3   26   2   12 unless noted)
12. Are matrices correctly ident		Yes 🗸	No 🗌	Adjusted?	12 dilless floted)
13. Is it clear what analyses we		Yes 🗸	No 🗌		
14. Were all holding times able (If no, notify customer for a		Yes 🗸	No 🗆	Checked by:	
Special Handling (if app	•				
15. Was client notified of all di		Yes	No 🗌	NA 🗸	
Person Notified:	Children Children communication, A capture sear communicate a material children and capture conscious in qualitics of	Date:	enterental and a second		
By Whom:		Via: eMail P	hone  Fax	☐ In Person	
Regarding: Client Instructions:					
16. Additional remarks:					
17. Cooler Information					
Cooler No Temp °C	Condition Seal Intact Sea	I No Seal Date	Signed By		
1 1.9	Good				

								•	9	7	7	_	7	)OO'd	14	7	
O	hain	-of-C	Chain-of-Custody Record	Turn-Around	Time: 5-dey					3	3	8		germian Overthey ca	ر ا بر (	3	eceive
Client:	Devon	5		- Standard						AA	# > -! =			HALL ENVIRONMENTAL ANALYSTS LABORATOR	AEN RA:	A C	_ >
				Project Name					_	www	haller	viron	ment	www.hallenvironmental.com	5		
Mailing	Mailing Address:	J 10 :s	9.	(rand I	Treated Fro	Part .		4901	Hawk	4901 Hawkins NE	1	nbnql	erque	Albuquerque, NM 87109	109		3/2/
				1				Tel.	505-3	Tel. 505-345-3975		Fax	505-3	Fax 505-345-4107	_		7/202
Phone #:	#:			SIE 00	A15-00580-001						Ana	Analysis Request	Requ	est			1 3.
email c	email or Fax#:	_		Project Manager:	ger:			(0			10			(ţu			7.5
QA/QC	QA/QC Package:			(	7					SW	STC	- (+		psq			72 1 1
□ Standard	ndard		☐ Level 4 (Full Validation)	1110n,ca	(Keppi)					ISO2	)d `			√/lu:			.,,,
Accreditation:	itation:	□ Az Co	☐ Az Compliance	Sampler: 7	2	2					CON	7	(/	rese			
FPF	FDD (Type)	Office		olers.	SD -	2				0 01		10	/O/	յ) ա			
	(245.)			Cooler Temp(including CF):	including CF):	1.9-10-1.9 (°C)				.68			-im	lifor			
	5 <u>a</u>			Container	Preservative	HEAL No.	/ X∃_	108:H	∍M) ac	үн эн	8 AAC	OV) 09	∍S) 0Y	ital Col	\$.		
Date	Time	_	Sample Name	Type and #	Type	2103043				/d	<del>_</del>	_	82	DΤ			
8	00:01	/00/		40/	3-						-			-	+	-	+
1	10:30	_	NS31.04 0-13		1	200		+	1	$\dagger$	7	1			+	-	1
_	10:35	_	W5A1-04 0-13			003		$\dashv$			$\dashv$					_	
	2.5		ENH3/2012/	(c)											_		
			1	•										, in			
					ás -						- 5-						
		7											201		1		
Date:	Time:	Relinquished by:	led by:	Received by:	Via:	Pate Time	Remarks:	ırks: [	1/2	irect bill	1).'6	B	devon				1 4
Date:	Time:	Relinquished by:	led by:	Received by:	Via:	_	00.	200	27.00	cc. monica pap.n	0.0						ge 44
125/4 MM	9 PB	alm	(	1 1	10 mer	3/26/21 7.25	5	0.00	H	139×780	X	108					oj 1
	If necessary	, samples sut	If necessary, samples submitted to Hala Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.	confracted to other ac	scredited laboratorie	ss. This serves as notice of this	s possibility.	ty. Any	sub-cor	itracted	lata will	be clearl	ly notate	d on the an	alytical r	eport.	

## Attachment 3



March 9, 2021 Vertex Project #: 21E-00580 (Ph 001)

Devon Energy Corporation 6488 Seven Rivers Highway Artesia, New Mexico 88210

Attention: Amanda Davis

Re: Electromagnetic Survey Results and Interpretation for Gaucho Fresh Water Pond

Ms. Davis,

Devon Energy Corporation (Devon) retained Vertex Resource Services Inc. (Vertex) to conduct an electromagnetic (EM) survey at the Gaucho Fresh Water Pond (the "Pond") within Section 20, Township 22, Range 34E (hereafter referred to as the "site"; Attachment 1 – Figure 1). The site is located approximately 20 miles west-southwest of Eunice, New Mexico.

Vertex personnel conducted the EM survey on March 4, 2021. The EM survey was conducted over the bottom of the Pond, concurrent with reclamation activities, after the Pond was drained and the liner removed. This letter reviews the results of the EM survey at the site and discusses the apparent conductivity anomalies that were observed.

#### Method

The fixed-frequency EM method was used to map variations in ground conductivity to identify anomalously conductive soils and infer changes in the soil characteristics and composition. This method uses portable instrumentation consisting of a transmitter coil and a receiver coil. A primary magnetic field from the transmitter coil induces subsurface eddy currents, which in turn generate a secondary magnetic field that is intercepted by the receiver coil. The ratio of the primary and secondary magnetic fields is related to ground conductivity.

Ground conductivity is influenced by the following:

- Concentration of total dissolved solids within the groundwater
- Type of substrate
- Soil grain size (fine-grained clay is more electrically conductive than coarse-grained material such as sand or gravel)
- Soil temperature (conductivity decreases as soil temperature approaches freezing)

Ground conductivity measurements were acquired using the Geonics EM31 Terrain Conductivity Meter. Data were collected along the top of the berm surrounding the Pond and continuously along transects spaced approximately 5 to 10 yards across the bottom of the pond. Data were not collected on the slopes of the berm. Data were logged using a Juniper Systems Archer2 Data Logger with an integrated global positioning system (GPS).

vertex.ca

**Devon Energy Corporation**Gaucho Fresh Water Pond

EM Survey Results and Interpretation March 2021

The effective depth of investigation for the EM31, as operated during this investigation, is approximately 5 m (16 ft). The conductivity values are not specific values from discrete depths; they are weighted averages of conductivity between the surface and the depth of exploration of the EM field, and are termed 'apparent conductivities'.

Two components of the conductivity measurements are provided and interpreted:

- Quadrature component: The measurement of the apparent ground conductivity in units of millisiemens per metre (mS/m)
- In-phase component: A ratio of the primary to secondary EM field that provides evidence of metal influence, measured in parts per thousand (ppt)

#### Interpretation

The results of the EM31 survey are presented as apparent conductivity and in-phase contour maps on Figures 2 and 3 (Attachment 1), respectively. Apparent conductivity values less than 12 mS/m (dark blue contours; Figure 2) are representative of background conditions. The EM31 apparent conductivity results show numerous regions with conductivity values exceeding 40 mS/m (green to dark red contours; Figure 2), many of which correlate with anomalous in-phase values (dark blue contours; Figure 3). Although anomalous in-phase values are often associated with metal influence, they can also be caused by elevated salinity. Apparent conductivity values exceeding 40 mS/m may be attributable to elevated salinity, increase clay content and/or metal influence. During the field survey, Vertex personnel noted areas of salt crystallization at the surface on the bottom of the Pond.

Note that the areas of some of the regions of elevated apparent conductivity may be overestimated due to the distance between survey lines and the data contouring methods. Any subsequent investigations should include areas of apparent background conductivity, as well as potentially impacted areas.

#### Closure

Should you have any questions or concerns, please do not hesitate to contact the undersigned at 780.464.3295 or lpankratow@vertex.ca.

Sincerely,

Laurie Pankratow, B.Sc., P.Geoph. GEOPHYSICIST

APEGA PERMIT TO PRACTICE #10647

#### **Attachments**

Attachment 1. Figures

vertex.ca

3101 Boyd Drive, Carlsbad, New Mexico 88220, USA | P 575.725.5001

**Devon Energy Corporation**Gaucho Fresh Water Pond

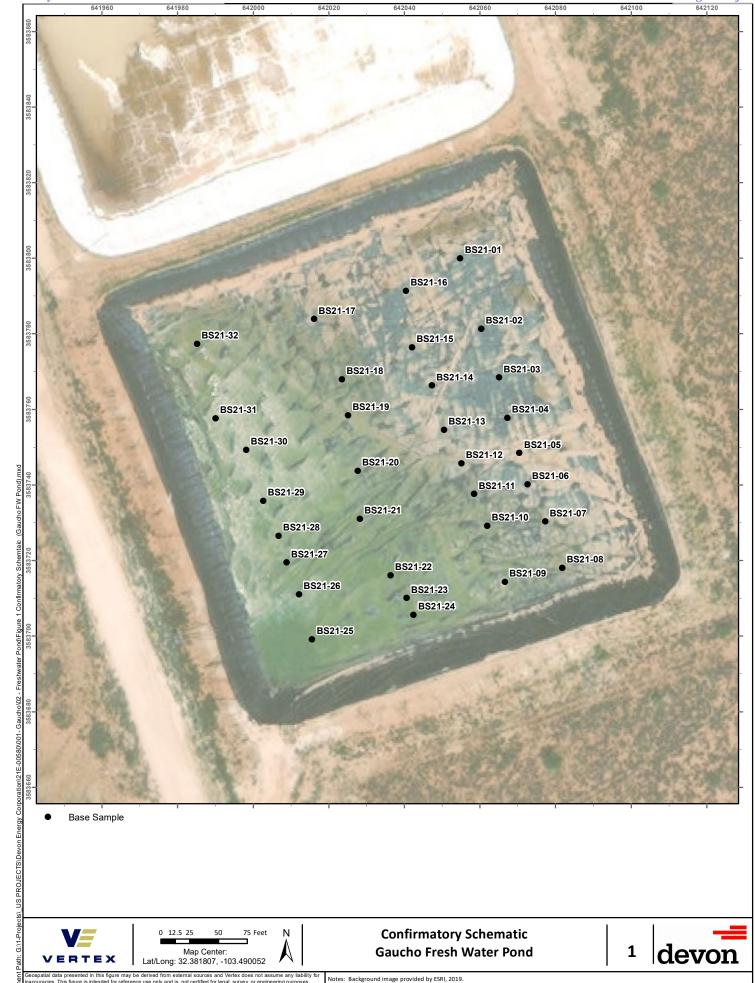
EM Survey Results and Interpretation March 2021

#### Limitations

This report has been prepared for the sole benefit of Devon Energy Corporation (Devon). This document may not be used by any other person or entity, with the exception of the New Mexico Oil Conservation Division, without the express written consent of Vertex Resource Services Inc. (Vertex) and Devon. Any use of this report by a third party, or any reliance on decisions made based on it, or damages suffered as a result of the use of this report are the sole responsibility of the user.

The information and conclusions contained in this report are based upon work undertaken by trained professional and technical staff in accordance with generally accepted scientific practices current at the time the work was performed. The conclusions and recommendations presented represent the best judgement of Vertex based on the data collected during the assessment. Due to the nature of the assessment and the data available, Vertex cannot warrant against undiscovered environmental liabilities. Conclusions and recommendations presented in this report should not be considered legal advice.

### **ATTACHMENT 1**



Client Name: Devon Energy Site Name: Gaucho Fresh Water Pond

Project #: 21E-00580 Lab Report: 210347

			Table 2. Confi	irmatory Sampl	ing Laboratory	Results				
	Sample Description				Petro	oleum Hydroca	rbons			Inorgania
			Vol	atile			Extractable			Inorganic
Sample ID	Depth (ft)	Sample Date	Benzene	BTEX (Total)	Gasoline Range Organics (GRO)	Diesel Range Organics (DRO)	Motor Oil Range Organics (MRO)	(GRO + DRO)	Total Petroleum Hydrocarbons (TPH)	Chloride
			(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
BS21-01	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-02	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<61
BS21-03	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<59
BS21-04	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<61
BS21-05	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-06	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-07	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-08	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-09	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-10	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-11	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-12	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<59
BS21-13	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-14	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-15	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-16	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<61
BS21-17	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-18	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<59
BS21-19	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<59
BS21-20	0-0.5	March 8, 2021	-	-	-	-	-	-	-	110
BS21-21	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-22	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-23	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-24	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-25	0-0.5	March 8, 2021	-	-	-	-	-	-	-	140
BS21-26	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-27	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-28	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-29	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-30	0-0.5	March 8, 2021	-	-	-	-	-	-	-	94
BS21-31	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60
BS21-32	0-0.5	March 8, 2021	-	-	-	-	-	-	-	<60

<sup>&</sup>quot;-" - Not applicable/assessed

Bold and shaded indicates exceedance outside of applied action level



Lab Order: 2103471 Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: Devon Energy** Lab Order: 2103471

Project: Gaucho Freshwater Pond

Lab ID: 2103471-001 **Collection Date:** 3/8/2021 9:00:00 AM

Client Sample ID: BS21-01 0-0.5 Matrix: SOIL

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 60 3/10/2021 9:00:00 AM ND mg/Kg 20 58638

Lab ID: 2103471-002 **Collection Date:** 3/8/2021 9:15:00 AM

Client Sample ID: BS21-02 0-0.5 Matrix: SOIL

Result **RL Qual Units** DF **Batch ID** Date Analyzed **Analyses** 

Comment: Rush Due 3/10 **EPA METHOD 300.0: ANIONS** 

Analyst: VP

ND 61 3/10/2021 9:00:00 AM Chloride mg/Kg 20 58638

Lab ID: **Collection Date:** 3/8/2021 9:30:00 AM 2103471-003

Client Sample ID: BS21-03 0-0.5 Matrix: SOIL

**RL Qual Units** Batch ID Date Analyzed **Analyses** Result DF

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

ND 3/10/2021 9:00:00 AM Chloride 59 mg/Kg 20 58638

2103471-004 **Collection Date:** 3/8/2021 9:45:00 AM Lab ID:

Matrix: SOIL Client Sample ID: BS21-04 0-0.5

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 61 20 3/10/2021 9:00:00 AM mg/Kg 58638

Lab ID: 2103471-005 Collection Date: 3/8/2021 10:00:00 AM

Client Sample ID: BS21-05 0-0.5 Matrix: SOIL

**RL Qual Units** DF Batch ID Date Analyzed Analyses Result

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Leve

nalyte detected in the associated Method Blank D Sample Diluted Due to Matrix above quantitation range Н Holding times for preparation or analysis exce Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix

Sample pH Not In Range Reporting Limit

Page 1 of 0

Lab Order: 2103471

### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

Chloride	CLIENT:	Devon Energy					La	ıb Order:	2103471
Client Sample ID: BS21-06 0-0.5   Matrix: SOIL	Project:	Gaucho Freshwater	Pond						
Analyses	Lab ID:	2103471-006				Colle	ection Date:	3/8/2021 10:15	:00 AM
Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride  ND  60  mg/Kg  20  58638  3/10/2021 9:00  Lab ID: 2103471-007  Collection Date: 3/8/2021 10:30:00 AM  Client Sample ID: BS21-07 0-0.5  Analyses  Result  RL  Qual  Units  DF  Batch ID  Date Analyst: VI  EPA METHOD 300.0: ANIONS Chloride  ND  60  mg/Kg  20  58638  3/10/2021 9:00  Analyst: VI  Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Client Sample ID: BS21-08 0-0.5  Analyses  Result  RL  Qual  Units  DF  Batch ID  Date Analyst: VI  SOIL  Analyses  Result  RL  Qual  Units  DF  Batch ID  Date Analyst: VI  SOIL  Analyses  Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride  ND  60  mg/Kg  20  58638  3/10/2021 9:00  Analyst: VI  Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride  ND  60  mg/Kg  20  58638  3/10/2021 9:00  Analyst: VI  Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride  ND  60  Mg/Kg  20  58638  3/10/2021 9:00  Analyst: VI  Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride  ND  60  Mg/Kg  20  58638  3/10/2021 9:00  Analyst: VI  Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride  ND  60  Mg/Kg  Collection Date: 3/8/2021 11:00:00 AM  Client Sample ID: BS21-09 0-0.5	Client Sample ID:	BS21-06 0-0.5					Matrix:	SOIL	
EPA METHOD 300.0: ANIONS Chloride  ND 60 mg/Kg 20 58638 3/10/2021 9:00  Lab ID: 2103471-007 Collection Date: 3/8/2021 10:30:00 AM Client Sample ID: BS21-07 0-0.5  Matrix: SOIL  Analyses Result RL Qual Units DF Batch ID Date Analys: VI Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00  Analyst: VI Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00  Collection Date: 3/8/2021 10:45:00 AM Client Sample ID: BS21-08 0-0.5  Matrix: SOIL  Analyses Result RL Qual Units DF Batch ID Date Analyst Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00  Collection Date: 3/8/2021 11:00:00 AM Client Sample ID: BS21-09 0-0.5  Collection Date: 3/8/2021 11:00:00 AM Client Sample ID: BS21-09 0-0.5  Collection Date: 3/8/2021 11:00:00 AM Matrix: SOIL	Analyses		Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Chloride	Comment: Rush	Due 3/10							
Chloride	<b>EPA METHOD 30</b>	0.0: ANIONS							Analyst: VP
Client Sample ID: BS21-07 0-0.5   Matrix: SOIL	Chloride		ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AN
Result   RL   Qual   Units   DF   Batch ID   Date Analyst	Lab ID:	2103471-007				Colle	ection Date:	3/8/2021 10:30	:00 AM
Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride  ND  60  mg/Kg  20  58638  3/10/2021 9:00  Lab ID: 2103471-008  Client Sample ID: BS21-08 0-0.5  Result  RL  Qual  Units  DF  Batch ID  Date Analyst: Vi  Analyses  Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride  ND  60  mg/Kg  20  58638  3/10/2021 9:00  Analyst: Vi  Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride  ND  60  mg/Kg  20  58638  3/10/2021 9:00  Analyst: Vi  Collection Date: 3/8/2021 11:00:00 AM  Client Sample ID: BS21-09 0-0.5  Matrix: SOIL	Client Sample ID:	BS21-07 0-0.5					Matrix:	SOIL	
EPA METHOD 300.0: ANIONS Chloride  ND 60 mg/Kg 20 58638 3/10/2021 9:00  Lab ID: 2103471-008 Collection Date: 3/8/2021 10:45:00 AM Client Sample ID: BS21-08 0-0.5  Matrix: SOIL  Analyses Result RL Qual Units DF Batch ID Date Analyst: Vi EPA METHOD 300.0: ANIONS Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00  Analyst: Vi EPA METHOD 300.0: ANIONS Chloride ND 60 mg/Kg 20 58638 3/10/2021 11:00:00 AM Client Sample ID: BS21-09 0-0.5  Matrix: SOIL	Analyses		Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00  Lab ID: 2103471-008 Collection Date: 3/8/2021 10:45:00 AM  Client Sample ID: BS21-08 0-0.5 Matrix: SOIL  Analyses Result RL Qual Units DF Batch ID Date Analyst  Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00  Lab ID: 2103471-009 Collection Date: 3/8/2021 11:00:00 AM  Client Sample ID: BS21-09 0-0.5  Matrix: SOIL	Comment: Rush	Due 3/10							
Chloride         ND         60         mg/Kg         20         58638         3/10/2021 9:00           Lab ID:         2103471-008         Collection Date:         3/8/2021 10:45:00 AM           Client Sample ID:         BS21-08 0-0.5         Matrix:         SOIL           Analyses         Result         RL Qual Units         DF         Batch ID         Date Analyst           Comment:         Rush Due 3/10         Analyst:         VI           EPA METHOD 300.0:         ANIONS         Analyst:         VI           Chloride         ND         60         mg/Kg         20         58638         3/10/2021 9:00           Lab ID:         2103471-009         Collection Date:         3/8/2021 11:00:00 AM           Client Sample ID:         BS21-09 0-0.5         Matrix:         SOIL	<b>EPA METHOD 30</b>	0.0: ANIONS							Analyst: VP
Client Sample ID:         BS21-08 0-0.5         Matrix:         SOIL           Analyses         Result         RL Qual Units         DF         Batch ID Date Analysts           Comment:         Rush Due 3/10         Analysts:         VI           EPA METHOD 300.0:         ANIONS         Analysts:         VI           Chloride         ND         60         mg/Kg         20         58638         3/10/2021 9:00           Lab ID:         2103471-009         Collection Date:         3/8/2021 11:00:00 AM           Client Sample ID:         BS21-09 0-0.5         Matrix:         SOIL	Chloride		ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AN
Analyses         Result         RL Qual Units         DF         Batch ID         Date Analyst           Comment: Rush Due 3/10         EPA METHOD 300.0: ANIONS	Lab ID:	2103471-008				Colle	ection Date:	3/8/2021 10:45	:00 AM
Comment: Rush Due 3/10  EPA METHOD 300.0: ANIONS Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00  Lab ID: 2103471-009 Collection Date: 3/8/2021 11:00:00 AM Client Sample ID: BS21-09 0-0.5 Matrix: SOIL	<b>Client Sample ID:</b>	BS21-08 0-0.5					Matrix:	SOIL	
EPA METHOD 300.0: ANIONS         Analyst: VI           Chloride         ND         60         mg/Kg         20         58638         3/10/2021 9:00           Lab ID:         2103471-009         Collection Date: 3/8/2021 11:00:00 AM           Client Sample ID:         BS21-09 0-0.5         Matrix: SOIL	Analyses		Result	RL	Qual	Units	DF	Batch ID	Date Analyzed
Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00  Lab ID: 2103471-009 Collection Date: 3/8/2021 11:00:00 AM  Client Sample ID: BS21-09 0-0.5 Matrix: SOIL	Comment: Rush	Due 3/10							
Chloride         ND         60         mg/Kg         20         58638         3/10/2021 9:00           Lab ID:         2103471-009         Collection Date:         3/8/2021 11:00:00 AM           Client Sample ID:         BS21-09 0-0.5         Matrix:         SOIL	<b>EPA METHOD 30</b>	0.0: ANIONS							Analyst: <b>VP</b>
Client Sample ID: BS21-09 0-0.5 Matrix: SOIL	Chloride		ND	60		mg/Kg	20	58638	3/10/2021 9:00:00 AN
•	Lab ID:	2103471-009				Colle	ection Date:	3/8/2021 11:00	:00 AM
Analyses Result RL Qual Units DF Batch ID Date Analyse	Client Sample ID:	BS21-09 0-0.5					Matrix:	SOIL	
	Analyses		Result	RL	Qual	Units	DF	Batch ID	Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 3/10/2021 9:00:00 AM mg/Kg 20 58638

Lab ID: 2103471-010 **Collection Date:** 3/8/2021 11:15:00 AM

Client Sample ID: BS21-10 0-0.5 Matrix: SOIL

**Batch ID** Date Analyzed Analyses **RL Qual Units** DF Result

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP 3/10/2021 9:00:00 AM Chloride ND 60 mg/Kg 20 58638

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Value exceeds Maximum Contaminant I Qualifiers:

Sample Diluted Due to Matrix D Н

above quantitation range Holding times for preparation or analysis exceeded Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit PQL

Practical Quanitative Limit Reporting Limit

% Recovery outside of range due to dilution or matrix

Sample pH Not In Range

Analyte detected in the associated Method Blank

Page 2 of 0

**CLIENT:** 

#### **Analytical Report**

Lab Order: 2103471

2103471

#### Hall Environmental Analysis Laboratory, Inc.

**Devon Energy** 

Date Reported:

Lab Order:

Project: Gaucho Freshwater Pond Lab ID: 2103471-011 **Collection Date:** 3/8/2021 11:30:00 AM Client Sample ID: BS21-11 0-0.5 Matrix: SOIL **Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed Comment: Rush Due 3/10 **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 60 3/10/2021 9:00:00 AM ND mg/Kg 20 58638 Lab ID: 2103471-012 Collection Date: 3/8/2021 11:45:00 AM Client Sample ID: BS21-12 0-0.5 Matrix: SOIL Result **RL Qual Units** DF **Batch ID** Date Analyzed **Analyses** Comment: Rush Due 3/10 **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 59 3/10/2021 9:00:00 AM mg/Kg 20 58638 Lab ID: Collection Date: 3/8/2021 12:00:00 PM 2103471-013 Client Sample ID: BS21-13 0-0.5 Matrix: SOIL **RL Qual Units** Batch ID Date Analyzed **Analyses** Result DF

Comment: Rush Due 3/10 **EPA METHOD 300.0: ANIONS** Analyst: VP ND 3/10/2021 9:00:00 AM Chloride 60 mg/Kg 20 58638

2103471-014 **Collection Date:** 3/8/2021 12:15:00 PM Lab ID:

Matrix: SOIL Client Sample ID: BS21-14 0-0.5

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed Comment: Rush Due 3/10 **EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 20 3/10/2021 9:00:00 AM mg/Kg 58638

Lab ID: 2103471-015 **Collection Date:** 3/8/2021 12:30:00 PM

Client Sample ID: BS21-15 0-0.5 Matrix: SOIL

**RL Qual Units** DF **Batch ID** Date Analyzed Analyses Result

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Leve

D Sample Diluted Due to Matrix Н

Holding times for preparation or analysis exce

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

nalyte detected in the associated Method Blank

above quantitation range Analyte detected below quantitation limits

Sample pH Not In Range Reporting Limit

Page 3 of 0

Lab Order: 2103471 Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: Devon Energy** Lab Order: 2103471

Project: Gaucho Freshwater Pond

Lab ID: 2103471-016 **Collection Date:** 3/8/2021 12:45:00 PM

Client Sample ID: BS21-16 0-0.5 Matrix: SOIL

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 3/10/2021 9:00:00 AM ND 61 mg/Kg 20 58638

Lab ID: 2103471-017 **Collection Date:** 3/8/2021 1:00:00 PM

Client Sample ID: BS21-17 0-0.5 Matrix: SOIL

Result **RL Qual Units** DF **Batch ID** Date Analyzed **Analyses** 

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 3/10/2021 9:00:00 AM mg/Kg 20 58638

Lab ID: **Collection Date:** 3/8/2021 1:15:00 PM 2103471-018

Client Sample ID: BS21-18 0-0.5 Matrix: SOIL

**RL Qual Units** Batch ID Date Analyzed **Analyses** Result DF

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

ND 3/10/2021 9:00:00 AM Chloride 59 mg/Kg 20 58638

2103471-019 **Collection Date:** 3/8/2021 1:30:00 PM Lab ID:

Matrix: SOIL Client Sample ID: BS21-19 0-0.5

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 20 3/10/2021 3:00:00 PM 59 mg/Kg 58638

Lab ID: 2103471-020 **Collection Date:** 3/8/2021 1:45:00 PM

Client Sample ID: BS21-20 0-0.5 Matrix: SOIL

**RL Qual Units** DF **Batch ID** Date Analyzed Analyses Result

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 110 60 mg/Kg 20 58638 3/10/2021 3:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Leve nalyte detected in the associated Method Blank

D Sample Diluted Due to Matrix above quantitation range Н Holding times for preparation or analysis exce Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix

Sample pH Not In Range Reporting Limit

Page 4 of 0

Lab Order: 2103471

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

**CLIENT: Devon Energy** Lab Order: 2103471

Project: Gaucho Freshwater Pond

Lab ID: 2103471-021 **Collection Date:** 3/8/2021 2:00:00 PM

Client Sample ID: BS21-21 0-0.5 Matrix: SOIL

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 60 3/10/2021 9:00:00 AM ND mg/Kg 20 58640

Lab ID: 2103471-022 **Collection Date:** 3/8/2021 2:15:00 PM

Client Sample ID: BS21-22 0-0.5 Matrix: SOIL

Result **RL Qual Units** DF **Batch ID** Date Analyzed **Analyses** 

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 3/10/2021 9:00:00 AM mg/Kg 20 58640

Lab ID: **Collection Date:** 3/8/2021 2:30:00 PM 2103471-023

Client Sample ID: BS21-23 0-0.5 Matrix: SOIL

**RL Qual Units** Batch ID Date Analyzed **Analyses** Result DF

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

ND 3/10/2021 9:00:00 AM Chloride 60 mg/Kg 20 58640

2103471-024 **Collection Date:** 3/8/2021 2:45:00 PM Lab ID:

Matrix: SOIL Client Sample ID: BS21-24 0-0.5

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 20 3/10/2021 9:00:00 AM mg/Kg 58640

Lab ID: 2103471-025 **Collection Date:** 3/8/2021 3:00:00 PM

Client Sample ID: BS21-25 0-0.5 Matrix: SOIL

**RL Qual Units** DF Batch ID Date Analyzed Analyses Result

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 140 60 mg/Kg 20 58640 3/10/2021 9:00:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Leve

nalyte detected in the associated Method Blank D Sample Diluted Due to Matrix above quantitation range Н

Holding times for preparation or analysis exce Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Reporting Limit

Sample pH Not In Range Page 5 of 0

Lab Order: 2103471

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported: Lab Order:

2103471

Project: Gaucho Freshwater Pond

**Devon Energy** 

Lab ID: 2103471-026

Client Sample ID: BS21-26 0-0.5

**Collection Date:** 3/8/2021 3:15:00 PM

Matrix: SOIL

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**CLIENT:** 

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 60 3/10/2021 9:00:00 AM ND mg/Kg 20 58640

Lab ID: 2103471-027 **Collection Date:** 3/8/2021 3:30:00 PM

Client Sample ID: BS21-27 0-0.5 Matrix: SOIL

Result **RL Qual Units** DF **Batch ID** Date Analyzed **Analyses** 

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 3/10/2021 9:00:00 AM mg/Kg 20 58640

Lab ID: **Collection Date:** 3/8/2021 3:45:00 PM 2103471-028

Client Sample ID: BS21-28 0-0.5 Matrix: SOIL

**RL Qual Units** Batch ID Date Analyzed **Analyses** Result DF

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

ND 3/10/2021 9:00:00 AM Chloride 60 mg/Kg 20 58640

2103471-029 **Collection Date:** 3/8/2021 4:00:00 PM Lab ID:

Matrix: SOIL Client Sample ID: BS21-29 0-0.5

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 20 3/10/2021 9:00:00 AM mg/Kg 58640

Lab ID: 2103471-030 **Collection Date:** 3/8/2021 4:15:00 PM

Client Sample ID: BS21-30 0-0.5 Matrix: SOIL

**RL Qual Units** DF **Batch ID** Date Analyzed Analyses Result

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 94 60 mg/Kg 20 58640 3/10/2021 9:00:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Leve

nalyte detected in the associated Method Blank D Sample Diluted Due to Matrix above quantitation range Н

Holding times for preparation or analysis exce Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Sample pH Not In Range Reporting Limit

Page 6 of 0

Lab Order: 2103471

Hall Environmental Analysis Laboratory, Inc.

Date Reported:

**CLIENT: Devon Energy** Lab Order: 2103471

**Project:** Gaucho Freshwater Pond

Collection Date: 3/8/2021 4:30:00 PM Lab ID: 2103471-031

Client Sample ID: BS21-31 0-0.5 Matrix: SOIL

**RL Qual Units** Analyses Result DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 60 3/10/2021 9:00:00 AM ND mg/Kg 20 58640

Lab ID: 2103471-032 **Collection Date:** 3/8/2021 4:15:00 PM

Client Sample ID: BS21-32 0-0.5 Matrix: SOIL

**Analyses** Result **RL Qual Units** DF Batch ID Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 3/10/2021 9:00:00 AM mg/Kg 20 58640

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Value exceeds Maximum Contaminant Level Analyte detected in the associated Method Blank D Sample Diluted Due to Matrix above quantitation range

Analyte detected below quantitation limits Н Holding times for preparation or analysis exce

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Reporting Limit

Sample pH Not In Range

Page 7 of 0

Lab Order: 2103471 Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: Devon Energy** Lab Order: 2103471

Project: Gaucho Freshwater Pond

Lab ID: 2103471-001 **Collection Date:** 3/8/2021 9:00:00 AM

Client Sample ID: BS21-01 0-0.5 Matrix: SOIL

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 60 3/10/2021 9:00:00 AM ND mg/Kg 20 58638

Lab ID: 2103471-002 **Collection Date:** 3/8/2021 9:15:00 AM

Client Sample ID: BS21-02 0-0.5 Matrix: SOIL

Result **RL Qual Units** DF **Batch ID** Date Analyzed **Analyses** 

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

ND 61 3/10/2021 9:00:00 AM Chloride mg/Kg 20 58638

Lab ID: **Collection Date:** 3/8/2021 9:30:00 AM 2103471-003

Client Sample ID: BS21-03 0-0.5 Matrix: SOIL

**RL Qual Units** Batch ID Date Analyzed **Analyses** Result DF

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

ND 3/10/2021 9:00:00 AM Chloride 59 mg/Kg 20 58638

2103471-004 **Collection Date:** 3/8/2021 9:45:00 AM Lab ID:

Matrix: SOIL Client Sample ID: BS21-04 0-0.5

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 61 20 3/10/2021 9:00:00 AM mg/Kg 58638

Lab ID: 2103471-005 Collection Date: 3/8/2021 10:00:00 AM

Client Sample ID: BS21-05 0-0.5 Matrix: SOIL

**RL Qual Units** DF Batch ID Date Analyzed Analyses Result

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Leve

nalyte detected in the associated Method Blank D Sample Diluted Due to Matrix above quantitation range Н Holding times for preparation or analysis exce Analyte detected below quantitation limits

Sample pH Not In Range ND Not Detected at the Reporting Limit PQL Practical Quanitative Limit Reporting Limit

% Recovery outside of range due to dilution or matrix

Page 1 of 0

Lab Order: 2103471 Date Reported:

#### Hall Environmental Analysis Laboratory, Inc.

Lab Order: 2103471

**CLIENT: Devon Energy** Project: Gaucho Freshwater Pond

Lab ID: 2103471-006 **Collection Date:** 3/8/2021 10:15:00 AM

Client Sample ID: BS21-06 0-0.5 Matrix: SOIL

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 60 3/10/2021 9:00:00 AM ND mg/Kg 20 58638

Lab ID: 2103471-007 Collection Date: 3/8/2021 10:30:00 AM

Client Sample ID: BS21-07 0-0.5 Matrix: SOIL

Result **RL Qual Units** DF **Batch ID** Date Analyzed **Analyses** 

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 3/10/2021 9:00:00 AM mg/Kg 20 58638

Lab ID: Collection Date: 3/8/2021 10:45:00 AM 2103471-008

Client Sample ID: BS21-08 0-0.5 Matrix: SOIL

**RL Qual Units** Batch ID Date Analyzed **Analyses** Result DF

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

ND 3/10/2021 9:00:00 AM Chloride 60 mg/Kg 20 58638

2103471-009 Collection Date: 3/8/2021 11:00:00 AM Lab ID:

Matrix: SOIL Client Sample ID: BS21-09 0-0.5

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 20 3/10/2021 9:00:00 AM mg/Kg 58638

Lab ID: 2103471-010 **Collection Date:** 3/8/2021 11:15:00 AM

Client Sample ID: BS21-10 0-0.5 Matrix: SOIL

**RL Qual Units** DF **Batch ID** Date Analyzed Analyses Result

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Leve

nalyte detected in the associated Method Blank D Sample Diluted Due to Matrix above quantitation range Н

Holding times for preparation or analysis exce Analyte detected below quantitation limits ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Sample pH Not In Range

Page 2 of 0 Reporting Limit

Lab Order: 2103471

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

2103471

Project: Gaucho Freshwater Pond

**Devon Energy** 

Lab ID: 2103471-011 Client Sample ID: BS21-11 0-0.5 **Collection Date:** 3/8/2021 11:30:00 AM

Lab Order:

Matrix: SOIL

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**CLIENT:** 

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 60 3/10/2021 9:00:00 AM ND mg/Kg 20 58638

Lab ID: 2103471-012 Collection Date: 3/8/2021 11:45:00 AM

Client Sample ID: BS21-12 0-0.5 Matrix: SOIL

Result **RL Qual Units** DF **Batch ID** Date Analyzed **Analyses** 

Comment: Rush Due 3/10 **EPA METHOD 300.0: ANIONS** 

Analyst: VP Chloride ND 59 3/10/2021 9:00:00 AM mg/Kg 20 58638

Lab ID: Collection Date: 3/8/2021 12:00:00 PM 2103471-013

Client Sample ID: BS21-13 0-0.5 Matrix: SOIL

**RL Qual Units** Batch ID Date Analyzed **Analyses** Result DF

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

ND 3/10/2021 9:00:00 AM Chloride 60 mg/Kg 20 58638

2103471-014 **Collection Date:** 3/8/2021 12:15:00 PM Lab ID:

Matrix: SOIL Client Sample ID: BS21-14 0-0.5

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 20 3/10/2021 9:00:00 AM mg/Kg 58638

Lab ID: 2103471-015 **Collection Date:** 3/8/2021 12:30:00 PM

Client Sample ID: BS21-15 0-0.5 Matrix: SOIL

**RL Qual Units** DF **Batch ID** Date Analyzed Analyses Result

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 58638 3/10/2021 9:00:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Leve

nalyte detected in the associated Method Blank D Sample Diluted Due to Matrix above quantitation range Н Holding times for preparation or analysis exce Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Sample pH Not In Range

Page 3 of 0 Reporting Limit

Lab Order: 2103471

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT:	Devon Energy	Lab Order:	2103471
<b>T</b>			

**Project:** Gaucho Freshwater Pond

**Lab ID:** 2103471-016 **Collection Date:** 3/8/2021 12:45:00 PM

Client Sample ID: BS21-16 0-0.5 Matrix: SOIL

Analyses Result RL Qual Units DF Batch ID Date Analyzed

Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride ND 61 mg/Kg 20 58638 3/10/2021 9:00:00 AM

**Lab ID:** 2103471-017 **Collection Date:** 3/8/2021 1:00:00 PM

Client Sample ID: BS21-17 0-0.5 Matrix: SOIL

Analyses Result RL Qual Units DF Batch ID Date Analyzed

Comment: Rush Due 3/10 **EPA METHOD 300.0: ANIONS** 

EPA METHOD 300.0: ANIONS

Analyst: VP

Chloride

ND

60

mg/Kg

20

58638

3/10/2021 9:00:00 AM

**Lab ID:** 2103471-018 **Collection Date:** 3/8/2021 1:15:00 PM

Client Sample ID: BS21-18 0-0.5 Matrix: SOIL

Analyses Result RL Qual Units DF Batch ID Date Analyzed

Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride ND 59 mg/Kg 20 58638 3/10/2021 9:00:00 AM

**Lab ID:** 2103471-019 **Collection Date:** 3/8/2021 1:30:00 PM

Client Sample ID: BS21-19 0-0.5 Matrix: SOIL

Analyses Result RL Qual Units DF Batch ID Date Analyzed

Comment: Push Duo 3/40

Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS Analyst: VP

Chloride ND 59 mg/Kg 20 58638 3/10/2021 3:00:00 PM

**Lab ID:** 2103471-020 **Collection Date:** 3/8/2021 1:45:00 PM

Client Sample ID: BS21-20 0-0.5 Matrix: SOIL

Analyses Result RL Qual Units DF Batch ID Date Analyzed

Comment: Rush Due 3/10

EPA METHOD 300.0: ANIONS

Chloride 110 60 mg/Kg 20 58638 3/10/2021 3:00:00 PM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

\* Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

\* Value above quantitation range

D Sample Diluted Due to Matrix
Holding times for preparation or analysis exceeded
Holding times for preparation or analysis exceeded
Holding times for preparation or analysis exceeded
Holding times for preparation or analysis exceeded
Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit
S % Recovery outside of range due to dilution or matrix

P Sample pH Not In Range

Reporting Limit Pag

Page 4 of 0

Lab Order: 2103471

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT:	Devon Energy	Lab Order:	2103471
Project.	Gaucha Frachwater Dand		

Project: Gaucho Freshwater Pond

Lab ID: **Collection Date:** 3/8/2021 2:00:00 PM 2103471-021

Client Sample ID: BS21-21 0-0.5 Matrix: SOIL

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 3/10/2021 9:00:00 AM ND 60 mg/Kg 20 58640

Lab ID: 2103471-022 **Collection Date:** 3/8/2021 2:15:00 PM

Client Sample ID: BS21-22 0-0.5 Matrix: SOIL

Result **RL Qual Units** DF **Batch ID** Date Analyzed **Analyses** 

Comment: Rush Due 3/10 **EPA METHOD 300.0: ANIONS** 

Analyst: VP

ND 60 3/10/2021 9:00:00 AM Chloride mg/Kg 20 58640

Lab ID: **Collection Date:** 3/8/2021 2:30:00 PM 2103471-023

Client Sample ID: BS21-23 0-0.5 Matrix: SOIL

**RL Qual Units** Batch ID Date Analyzed **Analyses** Result DF

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

3/10/2021 9:00:00 AM Chloride ND 60 mg/Kg 20 58640

2103471-024 **Collection Date:** 3/8/2021 2:45:00 PM Lab ID:

Matrix: SOIL Client Sample ID: BS21-24 0-0.5

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 20 3/10/2021 9:00:00 AM mg/Kg 58640

Lab ID: 2103471-025 **Collection Date:** 3/8/2021 3:00:00 PM

Client Sample ID: BS21-25 0-0.5 Matrix: SOIL

**RL Qual Units** DF Batch ID Date Analyzed Analyses Result

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 140 60 mg/Kg 20 58640 3/10/2021 9:00:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant Leve

nalyte detected in the associated Method Blank D Sample Diluted Due to Matrix above quantitation range Н Holding times for preparation or analysis exce Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit % Recovery outside of range due to dilution or matrix Sample pH Not In Range

Reporting Limit

Page 5 of 0

Lab Order: 2103471

#### Hall Environmental Analysis Laboratory, Inc.

Date Reported:

CLIENT:	Devon Energy	Lab Order:	2103471
	zeron znergj	Lab Oraci.	2103711

Gaucho Freshwater Pond **Project:** 

Lab ID: 2103471-026 **Collection Date:** 3/8/2021 3:15:00 PM

Client Sample ID: BS21-26 0-0.5 Matrix: SOIL

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 3/10/2021 9:00:00 AM ND 60 mg/Kg 20 58640

Lab ID: 2103471-027 **Collection Date:** 3/8/2021 3:30:00 PM

Client Sample ID: BS21-27 0-0.5 Matrix: SOIL

Result **RL Qual Units** DF **Batch ID** Date Analyzed **Analyses** 

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

ND 60 3/10/2021 9:00:00 AM Chloride mg/Kg 20 58640

Lab ID: **Collection Date:** 3/8/2021 3:45:00 PM 2103471-028

Client Sample ID: BS21-28 0-0.5 Matrix: SOIL

**RL Qual Units** Batch ID Date Analyzed **Analyses** Result DF

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

3/10/2021 9:00:00 AM Chloride ND 60 mg/Kg 20 58640

2103471-029 **Collection Date:** 3/8/2021 4:00:00 PM Lab ID:

Matrix: SOIL Client Sample ID: BS21-29 0-0.5

**Analyses** Result **RL Qual Units** DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 20 3/10/2021 9:00:00 AM mg/Kg 58640

Lab ID: 2103471-030 **Collection Date:** 3/8/2021 4:15:00 PM

Client Sample ID: BS21-30 0-0.5 Matrix: SOIL

**RL Qual Units** DF Batch ID Date Analyzed Analyses Result

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP Chloride

94 60 mg/Kg 20 58640 3/10/2021 9:00:00 AM

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers: Value exceeds Maximum Contaminant

nalyte detected in the associated Method Blank D Sample Diluted Due to Matrix above quantitation range Н Holding times for preparation or analysis exce Analyte detected below quantitation limits

ND Not Detected at the Reporting Limit

PQL % Recovery outside of range due to dilution or matrix

Sample pH Not In Range Reporting Limit Practical Quanitative Limit

Page 6 of 0

Lab Order: 2103471

Date Reported:

### Hall Environmental Analysis Laboratory, Inc.

**CLIENT: Devon Energy** Lab Order: 2103471

**Project:** Gaucho Freshwater Pond

Collection Date: 3/8/2021 4:30:00 PM Lab ID: 2103471-031

Client Sample ID: BS21-31 0-0.5 Matrix: SOIL

**RL Qual Units** Analyses Result DF **Batch ID** Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride 60 3/10/2021 9:00:00 AM ND mg/Kg 20 58640

Lab ID: 2103471-032 **Collection Date:** 3/8/2021 4:15:00 PM

Client Sample ID: BS21-32 0-0.5 Matrix: SOIL

**Analyses** Result **RL Qual Units** DF Batch ID Date Analyzed

Comment: Rush Due 3/10

**EPA METHOD 300.0: ANIONS** Analyst: VP

Chloride ND 60 3/10/2021 9:00:00 AM mg/Kg 20 58640

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level Analyte detected in the associated Method Blank D
- Sample Diluted Due to Matrix above quantitation range Analyte detected below quantitation limits Н Holding times for preparation or analysis exce
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

Sample pH Not In Range

Reporting Limit

Page 7 of 0



Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109
TEL: 505-345-3975 FAX: 505-345-4107
Website: clients.hallenvironmental.com

March 22, 2021

Monica Peppin Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (575) 748-0176

FAX:

RE: Gaucho Freshwater Pond OrderNo.: 2103471

#### Dear Monica Peppin:

Hall Environmental Analysis Laboratory received 32 sample(s) on 3/10/2021 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued March 12, 2021.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. All samples are reported as received unless otherwise indicated.

Please don't hesitate to contact HEAL for any additional information or clarifications.

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

2103471-001

Lab ID:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

## Analytical Report Lab Order 2103471

Received Date: 3/10/2021 7:44:00 AM

Date Reported: 3/22/2021

3/17/2021 11:44:00 AM 58764

3/17/2021 11:44:00 AM 58764

3/17/2021 11:44:00 AM 58764

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-01 0-0.5

Matrix: SOIL

**Project:** Gaucho Freshwater Pond Collection Date: 3/8/2021 9:00:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 11:08:52 AM 58638 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.2 mg/Kg 3/18/2021 7:44:48 AM ND Motor Oil Range Organics (MRO) 46 mg/Kg 1 3/18/2021 7:44:48 AM 58769 Surr: DNOP 128 70-130 %Rec 3/18/2021 7:44:48 AM 58769 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM Gasoline Range Organics (GRO) ND 3/17/2021 11:44:00 AM 58764 4.9 mg/Kg Surr: BFB 88.7 75.3-105 %Rec 3/17/2021 11:44:00 AM 58764 **EPA METHOD 8021B: VOLATILES** Analyst: CCM 3/17/2021 11:44:00 AM 58764 ND Benzene 0.025 mg/Kg Toluene ND 0.049 mg/Kg 3/17/2021 11:44:00 AM 58764

ND

ND

82.7

0.049

0.098

80-120

mg/Kg

mg/Kg

%Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 41

2103471-002

Lab ID:

Benzene

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

## Analytical Report Lab Order 2103471

Received Date: 3/10/2021 7:44:00 AM

Date Reported: 3/22/2021

3/17/2021 12:04:00 PM 58764

3/17/2021 12:04:00 PM 58764

3/17/2021 12:04:00 PM 58764

3/17/2021 12:04:00 PM 58764

3/17/2021 12:04:00 PM 58764

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-02 0-0.5

Matrix: SOIL

**Project:** Gaucho Freshwater Pond Collection Date: 3/8/2021 9:15:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 11:21:16 AM 58638 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.0 mg/Kg 3/18/2021 8:20:19 AM ND Motor Oil Range Organics (MRO) 45 mg/Kg 1 3/18/2021 8:20:19 AM 58769 Surr: DNOP 110 70-130 %Rec 3/18/2021 8:20:19 AM 58769 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 3/17/2021 12:04:00 PM 58764 Gasoline Range Organics (GRO) ND 4.9 mg/Kg Surr: BFB 92.2 75.3-105 %Rec 3/17/2021 12:04:00 PM 58764 **EPA METHOD 8021B: VOLATILES** Analyst: CCM

ND

ND

ND

ND

82.8

0.024

0.049

0.049

0.098

80-120

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 2 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-03 0-0.5

**Project:** Gaucho Freshwater Pond **Collection Date:** 3/8/2021 9:30:00 AM

**Lab ID:** 2103471-003 **Matrix:** SOIL **Received Date:** 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	59	mg/Kg	20	3/10/2021 11:33:41 AM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.8	mg/Kg	1	3/18/2021 8:32:19 AM	58769
Motor Oil Range Organics (MRO)	ND	49	mg/Kg	1	3/18/2021 8:32:19 AM	58769
Surr: DNOP	122	70-130	%Rec	1	3/18/2021 8:32:19 AM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/17/2021 12:24:00 PM	58764
Surr: BFB	90.7	75.3-105	%Rec	1	3/17/2021 12:24:00 PM	58764
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	3/17/2021 12:24:00 PM	58764
Toluene	ND	0.049	mg/Kg	1	3/17/2021 12:24:00 PM	58764
Ethylbenzene	ND	0.049	mg/Kg	1	3/17/2021 12:24:00 PM	58764
Xylenes, Total	ND	0.098	mg/Kg	1	3/17/2021 12:24:00 PM	58764
Surr: 4-Bromofluorobenzene	82.6	80-120	%Rec	1	3/17/2021 12:24:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 3 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-04 0-0.5

**Project:** Gaucho Freshwater Pond Collection Date: 3/8/2021 9:45:00 AM

**Lab ID:** 2103471-004 **Matrix:** SOIL **Received Date:** 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	61	mg/Kg	20	3/10/2021 11:46:06 AM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	8.6	mg/Kg	1	3/18/2021 8:44:09 AM	58769
Motor Oil Range Organics (MRO)	ND	43	mg/Kg	1	3/18/2021 8:44:09 AM	58769
Surr: DNOP	107	70-130	%Rec	1	3/18/2021 8:44:09 AM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/17/2021 12:44:00 PM	58764
Surr: BFB	90.8	75.3-105	%Rec	1	3/17/2021 12:44:00 PM	58764
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	3/17/2021 12:44:00 PM	58764
Toluene	ND	0.048	mg/Kg	1	3/17/2021 12:44:00 PM	58764
Ethylbenzene	ND	0.048	mg/Kg	1	3/17/2021 12:44:00 PM	58764
Xylenes, Total	ND	0.096	mg/Kg	1	3/17/2021 12:44:00 PM	58764
Surr: 4-Bromofluorobenzene	83.2	80-120	%Rec	1	3/17/2021 12:44:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 4 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-05 0-0.5

**Project:** Gaucho Freshwater Pond **Collection Date:** 3/8/2021 10:00:00 AM

**Lab ID:** 2103471-005 **Matrix:** SOIL **Received Date:** 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/10/2021 11:58:30 AM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.1	mg/Kg	1	3/18/2021 9:08:19 AM	58769
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/18/2021 9:08:19 AM	58769
Surr: DNOP	95.0	70-130	%Rec	1	3/18/2021 9:08:19 AM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.6	mg/Kg	1	3/17/2021 1:04:00 PM	58764
Surr: BFB	91.3	75.3-105	%Rec	1	3/17/2021 1:04:00 PM	58764
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.023	mg/Kg	1	3/17/2021 1:04:00 PM	58764
Toluene	ND	0.046	mg/Kg	1	3/17/2021 1:04:00 PM	58764
Ethylbenzene	ND	0.046	mg/Kg	1	3/17/2021 1:04:00 PM	58764
Xylenes, Total	ND	0.093	mg/Kg	1	3/17/2021 1:04:00 PM	58764
Surr: 4-Bromofluorobenzene	82.0	80-120	%Rec	1	3/17/2021 1:04:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-06 0-0.5

**Project:** Gaucho Freshwater Pond **Collection Date:** 3/8/2021 10:15:00 AM

**Lab ID:** 2103471-006 **Matrix:** SOIL **Received Date:** 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/10/2021 12:10:54 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.7	mg/Kg	1	3/18/2021 9:20:20 AM	58769
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	3/18/2021 9:20:20 AM	58769
Surr: DNOP	107	70-130	%Rec	1	3/18/2021 9:20:20 AM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/17/2021 1:23:00 PM	58764
Surr: BFB	89.6	75.3-105	%Rec	1	3/17/2021 1:23:00 PM	58764
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	3/17/2021 1:23:00 PM	58764
Toluene	ND	0.049	mg/Kg	1	3/17/2021 1:23:00 PM	58764
Ethylbenzene	ND	0.049	mg/Kg	1	3/17/2021 1:23:00 PM	58764
Xylenes, Total	ND	0.097	mg/Kg	1	3/17/2021 1:23:00 PM	58764
Surr: 4-Bromofluorobenzene	82.3	80-120	%Rec	1	3/17/2021 1:23:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 41

Date Reported: 3/22/2021

3/17/2021 1:43:00 PM

3/17/2021 1:43:00 PM

3/17/2021 1:43:00 PM

3/17/2021 1:43:00 PM

58764

58764

58764

58764

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-07 0-0.5

 Project:
 Gaucho Freshwater Pond
 Collection Date: 3/8/2021 10:30:00 AM

 Lab ID:
 2103471-007
 Matrix: SOIL
 Received Date: 3/10/2021 7:44:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 12:23:18 PM 58638 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.7 mg/Kg 3/18/2021 9:32:14 AM ND Motor Oil Range Organics (MRO) 49 mg/Kg 1 3/18/2021 9:32:14 AM 58769 Surr: DNOP 70-130 134 S %Rec 3/18/2021 9:32:14 AM 58769 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 3/17/2021 1:43:00 PM Gasoline Range Organics (GRO) ND 58764 4.9 mg/Kg 1 Surr: BFB 92.1 75.3-105 %Rec 3/17/2021 1:43:00 PM 58764 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 3/17/2021 1:43:00 PM 58764 Benzene 0.025 mg/Kg

ND

ND

ND

83.6

0.049

0.049

0.098

80-120

mg/Kg

mg/Kg

mg/Kg

%Rec

1

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

Toluene

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 7 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-08 0-0.5

 Project:
 Gaucho Freshwater Pond
 Collection Date: 3/8/2021 10:45:00 AM

 Lab ID:
 2103471-008
 Matrix: SOIL
 Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/10/2021 12:35:42 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	TOM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	3/18/2021 9:44:18 AM	58769
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/18/2021 9:44:18 AM	58769
Surr: DNOP	115	70-130	%Rec	1	3/18/2021 9:44:18 AM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	ССМ
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/17/2021 2:03:00 PM	58764
Surr: BFB	89.1	75.3-105	%Rec	1	3/17/2021 2:03:00 PM	58764
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	3/17/2021 2:03:00 PM	58764
Toluene	ND	0.049	mg/Kg	1	3/17/2021 2:03:00 PM	58764
Ethylbenzene	ND	0.049	mg/Kg	1	3/17/2021 2:03:00 PM	58764
Xylenes, Total	ND	0.099	mg/Kg	1	3/17/2021 2:03:00 PM	58764
Surr: 4-Bromofluorobenzene	83.2	80-120	%Rec	1	3/17/2021 2:03:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 8 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-09 0-0.5

**Project:** Gaucho Freshwater Pond **Collection Date:** 3/8/2021 11:00:00 AM

**Lab ID:** 2103471-009 **Matrix:** SOIL **Received Date:** 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/10/2021 1:12:55 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/18/2021 9:56:35 AM	58769
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/18/2021 9:56:35 AM	58769
Surr: DNOP	128	70-130	%Rec	1	3/18/2021 9:56:35 AM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	: CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/17/2021 2:23:00 PM	58764
Surr: BFB	89.3	75.3-105	%Rec	1	3/17/2021 2:23:00 PM	58764
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	3/17/2021 2:23:00 PM	58764
Toluene	ND	0.049	mg/Kg	1	3/17/2021 2:23:00 PM	58764
Ethylbenzene	ND	0.049	mg/Kg	1	3/17/2021 2:23:00 PM	58764
Xylenes, Total	ND	0.098	mg/Kg	1	3/17/2021 2:23:00 PM	58764
Surr: 4-Bromofluorobenzene	81.5	80-120	%Rec	1	3/17/2021 2:23:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 9 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-10 0-0.5

**Project:** Gaucho Freshwater Pond **Collection Date:** 3/8/2021 11:15:00 AM

**Lab ID:** 2103471-010 **Matrix:** SOIL **Received Date:** 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/10/2021 1:25:20 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.2	mg/Kg	1	3/18/2021 10:09:06 AM	58769
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/18/2021 10:09:06 AM	58769
Surr: DNOP	97.0	70-130	%Rec	1	3/18/2021 10:09:06 AM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/17/2021 2:43:00 PM	58764
Surr: BFB	86.1	75.3-105	%Rec	1	3/17/2021 2:43:00 PM	58764
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	3/18/2021 7:27:00 PM	58764
Toluene	ND	0.048	mg/Kg	1	3/18/2021 7:27:00 PM	58764
Ethylbenzene	ND	0.048	mg/Kg	1	3/18/2021 7:27:00 PM	58764
Xylenes, Total	ND	0.096	mg/Kg	1	3/18/2021 7:27:00 PM	58764
Surr: 4-Bromofluorobenzene	96.2	80-120	%Rec	1	3/18/2021 7:27:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 10 of 41

Date Reported: 3/22/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-11 0-0.5

 Project:
 Gaucho Freshwater Pond
 Collection Date: 3/8/2021 11:30:00 AM

 Lab ID:
 2103471-011
 Matrix: SOIL
 Received Date: 3/10/2021 7:44:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 1:37:45 PM 58638 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.9 mg/Kg 3/18/2021 10:21:20 AM 58769 Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 3/18/2021 10:21:20 AM 58769 Surr: DNOP 121 70-130 %Rec 3/18/2021 10:21:20 AM 58769 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 3/17/2021 4:03:00 PM Gasoline Range Organics (GRO) ND 58764 4.8 mg/Kg Surr: BFB 90.1 75.3-105 %Rec 3/17/2021 4:03:00 PM 58764 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 3/17/2021 4:03:00 PM 58764 Benzene 0.024 mg/Kg Toluene ND 0.048 mg/Kg 3/17/2021 4:03:00 PM 58764 Ethylbenzene ND 0.048 mg/Kg 1 3/17/2021 4:03:00 PM 58764 Xylenes, Total ND 0.095 mg/Kg 3/17/2021 4:03:00 PM 58764 Surr: 4-Bromofluorobenzene 82.1 80-120 %Rec 3/17/2021 4:03:00 PM 58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

g Limit Page 11 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-12 0-0.5

**Project:** Gaucho Freshwater Pond **Collection Date:** 3/8/2021 11:45:00 AM

**Lab ID:** 2103471-012 **Matrix:** SOIL **Received Date:** 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	59	mg/Kg	20	3/10/2021 1:50:09 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	3/18/2021 10:33:45 AM	58769
Motor Oil Range Organics (MRO)	ND	47	mg/Kg	1	3/18/2021 10:33:45 AM	58769
Surr: DNOP	96.9	70-130	%Rec	1	3/18/2021 10:33:45 AM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	5.0	mg/Kg	1	3/17/2021 4:22:00 PM	58764
Surr: BFB	90.0	75.3-105	%Rec	1	3/17/2021 4:22:00 PM	58764
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	3/17/2021 4:22:00 PM	58764
Toluene	ND	0.050	mg/Kg	1	3/17/2021 4:22:00 PM	58764
Ethylbenzene	ND	0.050	mg/Kg	1	3/17/2021 4:22:00 PM	58764
Xylenes, Total	ND	0.099	mg/Kg	1	3/17/2021 4:22:00 PM	58764
Surr: 4-Bromofluorobenzene	82.4	80-120	%Rec	1	3/17/2021 4:22:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 12 of 41

Date Reported: 3/22/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-13 0-0.5

 Project:
 Gaucho Freshwater Pond
 Collection Date: 3/8/2021 12:00:00 PM

 Lab ID:
 2103471-013
 Matrix: SOIL
 Received Date: 3/10/2021 7:44:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 2:02:34 PM 58638 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.8 mg/Kg 3/18/2021 10:46:02 AM 58769 ND Motor Oil Range Organics (MRO) 49 mg/Kg 1 3/18/2021 10:46:02 AM 58769 Surr: DNOP 101 3/18/2021 10:46:02 AM 58769 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 3/17/2021 4:42:00 PM Gasoline Range Organics (GRO) ND 58764 4.9 mg/Kg Surr: BFB 89.2 75.3-105 %Rec 3/17/2021 4:42:00 PM 58764 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 3/17/2021 4:42:00 PM 58764 Benzene 0.024 mg/Kg Toluene ND 0.049 mg/Kg 3/17/2021 4:42:00 PM 58764 Ethylbenzene ND 0.049 mg/Kg 1 3/17/2021 4:42:00 PM 58764 Xylenes, Total ND 0.098 mg/Kg 3/17/2021 4:42:00 PM 58764 Surr: 4-Bromofluorobenzene 81.6 80-120 %Rec 3/17/2021 4:42:00 PM 58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 13 of 41

Surr: 4-Bromofluorobenzene

# Analytical Report Lab Order 2103471

Date Reported: 3/22/2021

3/18/2021 7:47:00 PM

58764

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-14 0-0.5

 Project:
 Gaucho Freshwater Pond
 Collection Date: 3/8/2021 12:15:00 PM

 Lab ID:
 2103471-014
 Matrix: SOIL
 Received Date: 3/10/2021 7:44:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 2:14:59 PM 58638 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.7 mg/Kg 3/18/2021 10:58:25 AM 58769 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/18/2021 10:58:25 AM 58769 Surr: DNOP 3/18/2021 10:58:25 AM 58769 108 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 3/17/2021 5:02:00 PM Gasoline Range Organics (GRO) ND 58764 4.8 mg/Kg Surr: BFB 87.6 75.3-105 %Rec 3/17/2021 5:02:00 PM 58764 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 0.024 3/18/2021 7:47:00 PM 58764 Benzene mg/Kg Toluene ND 0.048 mg/Kg 3/18/2021 7:47:00 PM 58764 Ethylbenzene ND 0.048 mg/Kg 1 3/18/2021 7:47:00 PM 58764 Xylenes, Total ND 0.096 mg/Kg 3/18/2021 7:47:00 PM 58764

93.5

80-120

%Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 14 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-15 0-0.5

**Project:** Gaucho Freshwater Pond Collection Date: 3/8/2021 12:30:00 PM

**Lab ID:** 2103471-015 **Matrix:** SOIL **Received Date:** 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	60	mg/Kg	20	3/10/2021 2:27:23 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	3/18/2021 11:10:51 AM	58769
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	3/18/2021 11:10:51 AM	58769
Surr: DNOP	125	70-130	%Rec	1	3/18/2021 11:10:51 AM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.8	mg/Kg	1	3/17/2021 5:22:00 PM	58764
Surr: BFB	91.8	75.3-105	%Rec	1	3/17/2021 5:22:00 PM	58764
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.024	mg/Kg	1	3/17/2021 5:22:00 PM	58764
Toluene	ND	0.048	mg/Kg	1	3/17/2021 5:22:00 PM	58764
Ethylbenzene	ND	0.048	mg/Kg	1	3/17/2021 5:22:00 PM	58764
Xylenes, Total	ND	0.096	mg/Kg	1	3/17/2021 5:22:00 PM	58764
Surr: 4-Bromofluorobenzene	81.9	80-120	%Rec	1	3/17/2021 5:22:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 15 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-16 0-0.5

**Project:** Gaucho Freshwater Pond Collection Date: 3/8/2021 12:45:00 PM

**Lab ID:** 2103471-016 **Matrix:** SOIL **Received Date:** 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	61		mg/Kg	20	3/10/2021 2:39:48 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	SANICS					Analyst	: TOM
Diesel Range Organics (DRO)	ND	8.5		mg/Kg	1	3/18/2021 11:23:22 AM	58769
Motor Oil Range Organics (MRO)	ND	42		mg/Kg	1	3/18/2021 11:23:22 AM	58769
Surr: DNOP	132	70-130	S	%Rec	1	3/18/2021 11:23:22 AM	58769
EPA METHOD 8015D: GASOLINE RANGE						Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/17/2021 5:41:00 PM	58764
Surr: BFB	92.0	75.3-105		%Rec	1	3/17/2021 5:41:00 PM	58764
EPA METHOD 8021B: VOLATILES						Analyst	CCM
Benzene	ND	0.024		mg/Kg	1	3/17/2021 5:41:00 PM	58764
Toluene	ND	0.049		mg/Kg	1	3/17/2021 5:41:00 PM	58764
Ethylbenzene	ND	0.049		mg/Kg	1	3/17/2021 5:41:00 PM	58764
Xylenes, Total	ND	0.098		mg/Kg	1	3/17/2021 5:41:00 PM	58764
Surr: 4-Bromofluorobenzene	83.5	80-120		%Rec	1	3/17/2021 5:41:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- \* Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 16 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-17 0-0.5

 Project:
 Gaucho Freshwater Pond
 Collection Date: 3/8/2021 1:00:00 PM

 Lab ID:
 2103471-017
 Matrix: SOIL
 Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: <b>VP</b>
Chloride	ND	60	mg/Kg	20	3/10/2021 2:55:27 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	8.9	mg/Kg	1	3/18/2021 11:35:44 AM	58769
Motor Oil Range Organics (MRO)	ND	44	mg/Kg	1	3/18/2021 11:35:44 AM	58769
Surr: DNOP	104	70-130	%Rec	1	3/18/2021 11:35:44 AM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/17/2021 6:01:00 PM	58764
Surr: BFB	91.1	75.3-105	%Rec	1	3/17/2021 6:01:00 PM	58764
<b>EPA METHOD 8021B: VOLATILES</b>					Analyst	: CCM
Benzene	ND	0.024	mg/Kg	1	3/17/2021 6:01:00 PM	58764
Toluene	ND	0.049	mg/Kg	1	3/17/2021 6:01:00 PM	58764
Ethylbenzene	ND	0.049	mg/Kg	1	3/17/2021 6:01:00 PM	58764
Xylenes, Total	ND	0.098	mg/Kg	1	3/17/2021 6:01:00 PM	58764
Surr: 4-Bromofluorobenzene	83.0	80-120	%Rec	1	3/17/2021 6:01:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 17 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-18 0-0.5

Project: Gaucho Freshwater Pond Collection Date: 3/8/2021 1:15:00 PM

Lab ID: 2103471-018 Matrix: SOIL Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: VP
Chloride	ND	59	mg/Kg	20	3/10/2021 3:07:52 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.3	mg/Kg	1	3/18/2021 11:48:08 AM	58769
Motor Oil Range Organics (MRO)	ND	46	mg/Kg	1	3/18/2021 11:48:08 AM	58769
Surr: DNOP	100	70-130	%Rec	1	3/18/2021 11:48:08 AM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.9	mg/Kg	1	3/17/2021 6:21:00 PM	58764
Surr: BFB	90.6	75.3-105	%Rec	1	3/17/2021 6:21:00 PM	58764
EPA METHOD 8021B: VOLATILES					Analyst	CCM
Benzene	ND	0.025	mg/Kg	1	3/17/2021 6:21:00 PM	58764
Toluene	ND	0.049	mg/Kg	1	3/17/2021 6:21:00 PM	58764
Ethylbenzene	ND	0.049	mg/Kg	1	3/17/2021 6:21:00 PM	58764
Xylenes, Total	ND	0.098	mg/Kg	1	3/17/2021 6:21:00 PM	58764
Surr: 4-Bromofluorobenzene	83.6	80-120	%Rec	1	3/17/2021 6:21:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 18 of 41

Date Reported: 3/22/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-19 0-0.5

Project: Gaucho Freshwater Pond Collection Date: 3/8/2021 1:30:00 PM

Lab ID: 2103471-019 Matrix: SOIL Received Date: 3/10/2021 7:44:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: JMT Chloride ND 59 mg/Kg 20 3/10/2021 3:11:46 PM 58638 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.2 mg/Kg 3/18/2021 12:00:34 PM 58769 ND Motor Oil Range Organics (MRO) 46 mg/Kg 1 3/18/2021 12:00:34 PM 58769 Surr: DNOP 93.5 3/18/2021 12:00:34 PM 58769 70-130 %Rec **EPA METHOD 8015D: GASOLINE RANGE** Analyst: CCM 3/17/2021 6:41:00 PM Gasoline Range Organics (GRO) ND 58764 4.8 mg/Kg Surr: BFB 92.0 75.3-105 %Rec 3/17/2021 6:41:00 PM 58764 **EPA METHOD 8021B: VOLATILES** Analyst: CCM ND 3/17/2021 6:41:00 PM 58764 Benzene 0.024 mg/Kg Toluene ND 0.048 mg/Kg 3/17/2021 6:41:00 PM 58764 Ethylbenzene ND 0.048 mg/Kg 1 3/17/2021 6:41:00 PM 58764 Xylenes, Total ND 0.095 mg/Kg 3/17/2021 6:41:00 PM 58764 Surr: 4-Bromofluorobenzene 81.0 80-120 %Rec 3/17/2021 6:41:00 PM 58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 19 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-20 0-0.5

**Project:** Gaucho Freshwater Pond **Collection Date:** 3/8/2021 1:45:00 PM

**Lab ID:** 2103471-020 **Matrix:** SOIL **Received Date:** 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst	: JMT
Chloride	110	60	mg/Kg	20	3/10/2021 3:24:07 PM	58638
EPA METHOD 8015M/D: DIESEL RANGE OR	GANICS				Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.0	mg/Kg	1	3/18/2021 12:13:03 PM	58769
Motor Oil Range Organics (MRO)	ND	45	mg/Kg	1	3/18/2021 12:13:03 PM	58769
Surr: DNOP	96.6	70-130	%Rec	1	3/18/2021 12:13:03 PM	58769
EPA METHOD 8015D: GASOLINE RANGE					Analyst	CCM
Gasoline Range Organics (GRO)	ND	4.7	mg/Kg	1	3/17/2021 7:01:00 PM	58764
Surr: BFB	90.9	75.3-105	%Rec	1	3/17/2021 7:01:00 PM	58764
EPA METHOD 8021B: VOLATILES					Analyst	: CCM
Benzene	ND	0.023	mg/Kg	1	3/17/2021 7:01:00 PM	58764
Toluene	ND	0.047	mg/Kg	1	3/17/2021 7:01:00 PM	58764
Ethylbenzene	ND	0.047	mg/Kg	1	3/17/2021 7:01:00 PM	58764
Xylenes, Total	ND	0.094	mg/Kg	1	3/17/2021 7:01:00 PM	58764
Surr: 4-Bromofluorobenzene	81.9	80-120	%Rec	1	3/17/2021 7:01:00 PM	58764

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 20 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-21 0-0.5

 Project:
 Gaucho Freshwater Pond
 Collection Date: 3/8/2021 2:00:00 PM

 Lab ID:
 2103471-021
 Matrix: SOIL
 Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 12:22:13 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/18/2021 12:49:49 PM	58770
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/18/2021 12:49:49 PM	58770
Surr: DNOP	88.8	70-130		%Rec	1	3/18/2021 12:49:49 PM	58770
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	3/18/2021 10:12:10 PM	58765
Surr: BFB	107	75.3-105	S	%Rec	1	3/18/2021 10:12:10 PM	58765
<b>EPA METHOD 8021B: VOLATILES</b>						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	3/18/2021 10:12:10 PM	58765
Toluene	ND	0.050		mg/Kg	1	3/18/2021 10:12:10 PM	58765
Ethylbenzene	ND	0.050		mg/Kg	1	3/18/2021 10:12:10 PM	58765
Xylenes, Total	ND	0.099		mg/Kg	1	3/18/2021 10:12:10 PM	58765
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	3/18/2021 10:12:10 PM	58765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 21 of 41

Date Reported: 3/22/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-22 0-0.5

Project: Gaucho Freshwater Pond Collection Date: 3/8/2021 2:15:00 PM

Lab ID: 2103471-022 Matrix: SOIL Received Date: 3/10/2021 7:44:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 12:34:37 PM 58640 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.3 mg/Kg 3/18/2021 1:26:50 PM Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 3/18/2021 1:26:50 PM 58770 Surr: DNOP 101 70-130 %Rec 3/18/2021 1:26:50 PM 58770 Analyst: NSB **EPA METHOD 8015D: GASOLINE RANGE** 3/18/2021 11:23:14 PM 58765 Gasoline Range Organics (GRO) ND 4.9 mg/Kg Surr: BFB 105 75.3-105 %Rec 3/18/2021 11:23:14 PM 58765 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 3/18/2021 11:23:14 PM 58765 Benzene 0.024 mg/Kg Toluene ND 0.049 mg/Kg 3/18/2021 11:23:14 PM 58765 Ethylbenzene ND 0.049 mg/Kg 3/18/2021 11:23:14 PM 58765 Xylenes, Total ND 0.098 mg/Kg 3/18/2021 11:23:14 PM 58765 3/18/2021 11:23:14 PM 58765 Surr: 4-Bromofluorobenzene 100 80-120 %Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 22 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-23 0-0.5

Project: Gaucho Freshwater Pond Collection Date: 3/8/2021 2:30:00 PM

Lab ID: 2103471-023 Matrix: SOIL Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 12:47:02 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: TOM
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	3/18/2021 1:39:10 PM	58770
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/18/2021 1:39:10 PM	58770
Surr: DNOP	106	70-130		%Rec	1	3/18/2021 1:39:10 PM	58770
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2021 12:33:39 AM	58765
Surr: BFB	107	75.3-105	S	%Rec	1	3/19/2021 12:33:39 AM	58765
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2021 12:33:39 AM	58765
Toluene	ND	0.049		mg/Kg	1	3/19/2021 12:33:39 AM	58765
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2021 12:33:39 AM	58765
Xylenes, Total	ND	0.097		mg/Kg	1	3/19/2021 12:33:39 AM	58765
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	3/19/2021 12:33:39 AM	58765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 23 of 41

Date Reported: 3/22/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-24 0-0.5

Project: Gaucho Freshwater Pond Collection Date: 3/8/2021 2:45:00 PM

Lab ID: 2103471-024 Matrix: SOIL Received Date: 3/10/2021 7:44:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 1:24:17 PM 58640 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 10 mg/Kg 3/18/2021 1:51:32 PM Motor Oil Range Organics (MRO) ND 50 mg/Kg 1 3/18/2021 1:51:32 PM 58770 Surr: DNOP 104 70-130 %Rec 3/18/2021 1:51:32 PM 58770 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/19/2021 12:57:21 AM 58765 4.7 mg/Kg Surr: BFB 104 75.3-105 %Rec 3/19/2021 12:57:21 AM 58765 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 3/19/2021 12:57:21 AM 58765 Benzene 0.023 mg/Kg Toluene ND 0.047 mg/Kg 3/19/2021 12:57:21 AM 58765 Ethylbenzene ND 0.047 mg/Kg 3/19/2021 12:57:21 AM 58765 Xylenes, Total ND 0.093 mg/Kg 3/19/2021 12:57:21 AM 58765 Surr: 4-Bromofluorobenzene 3/19/2021 12:57:21 AM 58765 99.0 80-120 %Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 24 of 41

Date Reported: 3/22/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-25 0-0.5

Project: Gaucho Freshwater Pond Collection Date: 3/8/2021 3:00:00 PM

Lab ID: 2103471-025 Matrix: SOIL Received Date: 3/10/2021 7:44:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride 140 60 mg/Kg 20 3/10/2021 1:36:42 PM 58640 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.9 mg/Kg 3/18/2021 2:03:57 PM 58770 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/18/2021 2:03:57 PM 58770 Surr: DNOP 101 70-130 %Rec 3/18/2021 2:03:57 PM 58770 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/19/2021 1:20:59 AM 58765 4.8 mg/Kg Surr: BFB 106 75.3-105 S %Rec 3/19/2021 1:20:59 AM 58765 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 3/19/2021 1:20:59 AM Benzene 0.024 mg/Kg 58765 Toluene ND 0.048 mg/Kg 3/19/2021 1:20:59 AM 58765 Ethylbenzene ND 0.048 mg/Kg 1 3/19/2021 1:20:59 AM 58765 Xylenes, Total ND 0.096 mg/Kg 3/19/2021 1:20:59 AM 58765 Surr: 4-Bromofluorobenzene 101 80-120 %Rec 3/19/2021 1:20:59 AM 58765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Penorting Limit Page 25 of 41

2103471-026

Lab ID:

Ethylbenzene

Xylenes, Total

Surr: 4-Bromofluorobenzene

# Analytical Report Lab Order 2103471

Received Date: 3/10/2021 7:44:00 AM

Date Reported: 3/22/2021

3/19/2021 1:44:31 AM

3/19/2021 1:44:31 AM

3/19/2021 1:44:31 AM

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-26 0-0.5

Matrix: SOIL

**Project:** Gaucho Freshwater Pond Collection Date: 3/8/2021 3:15:00 PM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 1:49:07 PM 58640 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.7 mg/Kg 3/18/2021 2:16:25 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 3/18/2021 2:16:25 PM 58770 Surr: DNOP 103 70-130 %Rec 3/18/2021 2:16:25 PM 58770 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB Gasoline Range Organics (GRO) ND 3/19/2021 1:44:31 AM 58765 4.7 mg/Kg Surr: BFB 104 75.3-105 %Rec 3/19/2021 1:44:31 AM 58765 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 3/19/2021 1:44:31 AM Benzene 0.023 mg/Kg 58765 Toluene ND 0.047 mg/Kg 3/19/2021 1:44:31 AM 58765

ND

ND

99.0

0.047

0.093

80-120

mg/Kg

mg/Kg

%Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 26 of 41

58765

58765

58765

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-27 0-0.5

 Project:
 Gaucho Freshwater Pond
 Collection Date: 3/8/2021 3:30:00 PM

 Lab ID:
 2103471-027
 Matrix: SOIL
 Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 2:01:31 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/18/2021 2:28:59 PM	58770
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2021 2:28:59 PM	58770
Surr: DNOP	132	70-130	S	%Rec	1	3/18/2021 2:28:59 PM	58770
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	3/19/2021 2:08:02 AM	58765
Surr: BFB	105	75.3-105		%Rec	1	3/19/2021 2:08:02 AM	58765
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2021 2:08:02 AM	58765
Toluene	ND	0.047		mg/Kg	1	3/19/2021 2:08:02 AM	58765
Ethylbenzene	ND	0.047		mg/Kg	1	3/19/2021 2:08:02 AM	58765
Xylenes, Total	ND	0.095		mg/Kg	1	3/19/2021 2:08:02 AM	58765
Surr: 4-Bromofluorobenzene	99.9	80-120		%Rec	1	3/19/2021 2:08:02 AM	58765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 27 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-28 0-0.5

**Project:** Gaucho Freshwater Pond **Collection Date:** 3/8/2021 3:45:00 PM

**Lab ID:** 2103471-028 **Matrix:** SOIL **Received Date:** 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	ND	60		mg/Kg	20	3/10/2021 2:13:55 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.5		mg/Kg	1	3/18/2021 2:41:38 PM	58770
Motor Oil Range Organics (MRO)	ND	47		mg/Kg	1	3/18/2021 2:41:38 PM	58770
Surr: DNOP	128	70-130		%Rec	1	3/18/2021 2:41:38 PM	58770
EPA METHOD 8015D: GASOLINE RANGE						Analyst	: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	3/19/2021 2:31:35 AM	58765
Surr: BFB	105	75.3-105	S	%Rec	1	3/19/2021 2:31:35 AM	58765
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.024		mg/Kg	1	3/19/2021 2:31:35 AM	58765
Toluene	ND	0.048		mg/Kg	1	3/19/2021 2:31:35 AM	58765
Ethylbenzene	ND	0.048		mg/Kg	1	3/19/2021 2:31:35 AM	58765
Xylenes, Total	ND	0.095		mg/Kg	1	3/19/2021 2:31:35 AM	58765
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	3/19/2021 2:31:35 AM	58765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 28 of 41

Gasoline Range Organics (GRO)

Surr: 4-Bromofluorobenzene

**EPA METHOD 8021B: VOLATILES** 

Surr: BFB

Benzene

Toluene

Ethylbenzene

Xylenes, Total

# Analytical Report Lab Order 2103471

Date Reported: 3/22/2021

3/19/2021 2:55:12 AM

3/19/2021 2:55:12 AM

3/19/2021 2:55:12 AM

3/19/2021 2:55:12 AM

3/19/2021 2:55:12 AM

3/19/2021 2:55:12 AM

3/19/2021 2:55:12 AM

58765

58765

58765

58765

58765

58765

58765

Analyst: NSB

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-29 0-0.5

Project: Gaucho Freshwater Pond Collection Date: 3/8/2021 4:00:00 PM

Lab ID: 2103471-029 Matrix: SOIL Received Date: 3/10/2021 7:44:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 2:26:20 PM 58640 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.6 mg/Kg 3/18/2021 2:54:20 PM Motor Oil Range Organics (MRO) ND 48 mg/Kg 1 3/18/2021 2:54:20 PM 58770 Surr: DNOP 103 70-130 %Rec 3/18/2021 2:54:20 PM 58770 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB

5.0

75.3-105

0.025

0.050

0.050

0.099

80-120

mg/Kg

%Rec

mg/Kg

mg/Kg

mg/Kg

mg/Kg

%Rec

1

ND

104

ND

ND

ND

ND

98.9

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 29 of 41

Date Reported: 3/22/2021

### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-30 0-0.5

 Project:
 Gaucho Freshwater Pond
 Collection Date: 3/8/2021 4:15:00 PM

 Lab ID:
 2103471-030
 Matrix: SOIL
 Received Date: 3/10/2021 7:44:00 AM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst	: VP
Chloride	94	60		mg/Kg	20	3/10/2021 2:38:44 PM	58640
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS					Analyst	: TOM
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	3/18/2021 3:06:58 PM	58770
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	3/18/2021 3:06:58 PM	58770
Surr: DNOP	107	70-130		%Rec	1	3/18/2021 3:06:58 PM	58770
EPA METHOD 8015D: GASOLINE RANGE						Analyst	NSB
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	3/19/2021 3:18:48 AM	58765
Surr: BFB	106	75.3-105	S	%Rec	1	3/19/2021 3:18:48 AM	58765
EPA METHOD 8021B: VOLATILES						Analyst	: NSB
Benzene	ND	0.025		mg/Kg	1	3/19/2021 3:18:48 AM	58765
Toluene	ND	0.049		mg/Kg	1	3/19/2021 3:18:48 AM	58765
Ethylbenzene	ND	0.049		mg/Kg	1	3/19/2021 3:18:48 AM	58765
Xylenes, Total	ND	0.099		mg/Kg	1	3/19/2021 3:18:48 AM	58765
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	3/19/2021 3:18:48 AM	58765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 30 of 41

2103471-031

Lab ID:

# Analytical Report Lab Order 2103471

Received Date: 3/10/2021 7:44:00 AM

Date Reported: 3/22/2021

#### Hall Environmental Analysis Laboratory, Inc.

CLIENT: Devon Energy Client Sample ID: BS21-31 0-0.5

Matrix: SOIL

**Project:** Gaucho Freshwater Pond Collection Date: 3/8/2021 4:30:00 PM

Result **RL Oual Units DF** Date Analyzed **Batch Analyses EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 2:51:09 PM 58640 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.5 mg/Kg 3/18/2021 3:19:35 PM 58770 Motor Oil Range Organics (MRO) ND 47 mg/Kg 1 3/18/2021 3:19:35 PM 58770 Surr: DNOP 109 70-130 %Rec 3/18/2021 3:19:35 PM 58770 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/19/2021 6:22:55 PM Gasoline Range Organics (GRO) ND 58765 4.8 mg/Kg Surr: BFB 102 75.3-105 %Rec 3/19/2021 6:22:55 PM 58765 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 3/19/2021 6:22:55 PM Benzene 0.024 mg/Kg 58765 Toluene ND 0.048 mg/Kg 3/19/2021 6:22:55 PM 58765 Ethylbenzene ND 0.048 mg/Kg 3/19/2021 6:22:55 PM 58765 Xylenes, Total ND 0.096 mg/Kg 3/19/2021 6:22:55 PM 58765 Surr: 4-Bromofluorobenzene 103 80-120 %Rec 3/19/2021 6:22:55 PM 58765

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 31 of 41

Date Reported: 3/22/2021

3/19/2021 6:46:20 PM

58765

#### Hall Environmental Analysis Laboratory, Inc.

**CLIENT:** Devon Energy **Client Sample ID:** BS21-32 0-0.5

**Project:** Gaucho Freshwater Pond Collection Date: 3/8/2021 4:15:00 PM Lab ID: 2103471-032 Matrix: SOIL Received Date: 3/10/2021 7:44:00 AM

Result **RL Oual Units DF** Date Analyzed **Batch** Analyses **EPA METHOD 300.0: ANIONS** Analyst: VP Chloride ND 60 mg/Kg 20 3/10/2021 3:03:34 PM 58640 **EPA METHOD 8015M/D: DIESEL RANGE ORGANICS** Analyst: TOM Diesel Range Organics (DRO) ND 9.7 mg/Kg 3/18/2021 3:32:40 PM 58770 Motor Oil Range Organics (MRO) ND 49 mg/Kg 1 3/18/2021 3:32:40 PM 58770 Surr: DNOP 101 70-130 %Rec 3/18/2021 3:32:40 PM 58770 **EPA METHOD 8015D: GASOLINE RANGE** Analyst: NSB 3/19/2021 6:46:20 PM Gasoline Range Organics (GRO) ND 58765 4.7 mg/Kg Surr: BFB 102 75.3-105 %Rec 3/19/2021 6:46:20 PM 58765 **EPA METHOD 8021B: VOLATILES** Analyst: NSB ND 3/19/2021 6:46:20 PM Benzene 0.023 mg/Kg 58765 Toluene ND 0.047 mg/Kg 3/19/2021 6:46:20 PM 58765 Ethylbenzene ND 0.047 mg/Kg 1 3/19/2021 6:46:20 PM 58765 Xylenes, Total ND 0.093 mg/Kg 3/19/2021 6:46:20 PM 58765 Surr: 4-Bromofluorobenzene 102

80-120

%Rec

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Η Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Е Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- Reporting Limit

Page 32 of 41

#### Hall Environmental Analysis Laboratory, Inc.

22-Mar-21

2103471

WO#:

**Client:** Devon Energy

**Project:** Gaucho Freshwater Pond

Sample ID: MB-58638 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58638 RunNo: 75827

Prep Date: 3/10/2021 Analysis Date: 3/10/2021 SeqNo: 2683467 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58638 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58638 RunNo: 75827

Prep Date: 3/10/2021 Analysis Date: 3/10/2021 SeqNo: 2683468 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.7 90 110

Sample ID: MB-58640 SampType: MBLK TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58640 RunNo: 75828

Prep Date: 3/10/2021 Analysis Date: 3/10/2021 SeqNo: 2683836 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride ND 1.5

Sample ID: LCS-58640 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58640 RunNo: 75828

Prep Date: 3/10/2021 Analysis Date: 3/10/2021 SeqNo: 2683837 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.3 90 110

Sample ID: MB-58638 SampType: mblk TestCode: EPA Method 300.0: Anions

Client ID: PBS Batch ID: 58638 RunNo: 75842

Prep Date: 3/10/2021 Analysis Date: 3/10/2021 SeqNo: 2684327 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit

Chloride ND 1.5

Sample ID: LCS-58638 SampType: Ics TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 58638 RunNo: 75842

Prep Date: 3/10/2021 Analysis Date: 3/10/2021 SeqNo: 2684328 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Chloride 14 1.5 15.00 0 94.2 90 110

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 33 of 41

Qual

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2103471 22-Mar-21** 

**Client:** Devon Energy

**Project:** Gaucho Freshwater Pond

Sample ID: MB-58769 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics
Client ID: PBS Batch ID: 58769 RunNo: 76023

Prep Date: 3/16/2021 Analysis Date: 3/18/2021 SeqNo: 2691078 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 10 10.00 99.7 70 130

Sample ID: 2103471-001AMS TestCode: EPA Method 8015M/D: Diesel Range Organics SampType: MS Client ID: BS21-01 0-0.5 RunNo: 76023 Batch ID: 58769 Prep Date: 3/16/2021 Analysis Date: 3/18/2021 SeqNo: 2691086 Units: mg/Kg Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

 Diesel Range Organics (DRO)
 53
 9.7
 48.59
 0
 108
 15
 184

 Surr: DNOP
 5.8
 4.859
 119
 70
 130

Sample ID: LCS-58769 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58769 RunNo: 76023

Prep Date: 3/16/2021 Analysis Date: 3/18/2021 SeqNo: 2691095 Units: mg/Kg

Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 48 10 50.00 0 68.9 96.6 141

Surr: DNOP 4.7 5.000 93.1 70 130

Sample ID: 2103471-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BS21-01 0-0.5** Batch ID: **58769** RunNo: **76023** 

Prep Date: 3/16/2021 Analysis Date: 3/18/2021 SeqNo: 2691168 Units: mg/Kg

Result SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte POI Diesel Range Organics (DRO) 49 9.3 46.69 0 104 15 184 8.20 23.9 Surr: DNOP 4.669 114 70 130 0 0 5.3

Sample ID: MB-58770 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 58770 RunNo: 76023

Prep Date: 3/16/2021 Analysis Date: 3/18/2021 SeqNo: 2692146 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Page Organics (DRO) ND 10

Diesel Range Organics (DRO) ND 10
Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 9.3 10.00 93.4 70 130

#### Qualifiers:

Value exceeds Maximum Contaminant Level

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 34 of 41

#### Hall Environmental Analysis Laboratory, Inc.

22-Mar-21

2103471

WO#:

**Client:** Devon Energy

**Project:** Gaucho Freshwater Pond

Sample ID: LCS-58770 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 58770 RunNo: 76023

Prep Date: 3/16/2021 Analysis Date: 3/18/2021 SeqNo: 2692147 Units: mg/Kg

PQL SPK value SPK Ref Val %REC HighLimit %RPD **RPDLimit** Analyte Result LowLimit Qual Diesel Range Organics (DRO) 10 0 52 50.00 103 68.9 141 Surr: DNOP 5.7 5.000 114 130

Sample ID: 2103471-021AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: BS21-21 0-0.5 Batch ID: 58770 RunNo: 76023

Prep Date: 3/16/2021 Analysis Date: 3/18/2021 SeqNo: 2692148 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 51 10 49.75 0 102 15 184

 Surr: DNOP
 4.9
 4.975
 98.6
 70
 130

Sample ID: 2103471-021AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: **BS21-21 0-0.5** Batch ID: **58770** RunNo: **76023** 

Prep Date: 3/16/2021 Analysis Date: 3/18/2021 SeqNo: 2692149 Units: mg/Kg

%RPD **RPDLimit** SPK value SPK Ref Val %REC LowLimit HighLimit Qual Analyte Result PQL Diesel Range Organics (DRO) 48 9.9 49.46 0 97.1 15 184 5.06 23.9 Surr: DNOP 4.946 98.9 70 130 0 0 4.9

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 35 of 41

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2103471** 

22-Mar-21

**Client:** Devon Energy

**Project:** Gaucho Freshwater Pond

Sample ID: LCS-58764	SampT	SampType: LCS			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: LCSS	Batch	n ID: <b>58</b> 7	764	R	unNo: 70	6022					
Prep Date: 3/16/2021	Analysis D	ate: 3/	17/2021	S	eqNo: 20	691016	6 Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	29	5.0	25.00	0	114	80	120				
Surr: BFB	1000		1000		101	75.3	105				
Sample ID: MB-58764	SampT	ype: <b>ME</b>	BLK	Tes	Code: El	PA Method	8015D: Gaso	line Rang	e		
Client ID: PBS	Batch	Batch ID: <b>58764</b>			unNo: 70	6022					
Prep Date: 3/16/2021	Analysis Date: 3/17/2021			S	eqNo: 20	691017	Units: mq/K	a			

Prep Date: 3/16/2021	Analysis D	Analysis Date: 3/17/2021			SeqNo: <b>2691017</b> Units: mg				/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual		
Gasoline Range Organics (GRO)	ND	5.0										
Surr: BFB	880		1000		87.8	75.3	105					
Sample ID: 2103471-001ams	SampT	ype: MS	 S	Tes	tCode: El	PA Method	8015D: Gaso	oline Rang	e			

Campio is: 2100 ii i coraine	, oap.	Gap : ) p o. III G			rected act 21 /t motiled cores. Cacomic rtai						
Client ID: BS21-01 0-0.5	Batch	Batch ID: <b>58764</b>			RunNo: 7	6022					
Prep Date: 3/16/2021	Analysis D	Analysis Date: 3/17/2021			SeqNo: 2	691038	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	30	4.8	24.15	0	123	61.3	114			S	
Surr: BFB	1000		966.2		106	75.3	105			S	

Sample ID: 2103471-001amsd	71-001amsd SampType: MSD				TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS21-01 0-0.5	Batch	ID: <b>58</b> 7	764	R	tunNo: 7	6022					
Prep Date: 3/16/2021	Analysis Date: <b>3/17/2021</b>			SeqNo: <b>2691039</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	29	4.8	23.76	0	122	61.3	114	2.18	20	S	
Surr: BFB	950		950.6		100	75.3	105	0	0		

Sample ID: <b>mb-58765</b>	SampT	SampType: MBLK			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: PBS	Batch	ID: <b>58</b> 7	765	R	tunNo: 70	6053					
Prep Date: 3/16/2021	Analysis D	Analysis Date: 3/18/2021			SeqNo: 2691985			Units: mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	ND	5.0									
Surr: BFB	1100		1000		107	75.3	105			S	

Sample ID: Ics-58765	SampType: LCS	TestCode: EPA Method	8015D: Gasoline Range
Client ID: LCSS	Batch ID: 58765	RunNo: <b>76053</b>	
Prep Date: 3/16/2021	Analysis Date: 3/18/2021	SeqNo: <b>2691986</b>	Units: mg/Kg
Analyte	Result PQL SPK value	SPK Ref Val %REC LowLimit	HighLimit %RPD RPDLimit Qual

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 36 of 41

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2103471 22-Mar-21

**Client:** Devon Energy

**Project:** Gaucho Freshwater Pond

Sample ID: Ics-58765	SampT	ype: <b>LC</b>	S	Test	Code: El	PA Method	8015D: Gaso	line Rang	е		
Client ID: LCSS	Batch	Batch ID: 58765			unNo: 70	6053					
Prep Date: 3/16/2021	Analysis Date: 3/18/2021			SeqNo: <b>2691986</b>			Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	25	5.0	25.00	0	101	80	120				
Surr: BFB	1200		1000		117	75.3	105			S	

Sample ID: 2103471-021ams	SampT	SampType: MS TestCode: EPA Method 80					8015D: Gaso	line Rang	е	
Client ID: BS21-21 0-0.5	Batch	1D: <b>58</b>	765	F	RunNo: <b>7</b> 0	6053				
Prep Date: 3/16/2021	Analysis D	ate: 3/	18/2021	8	SeqNo: 20	691988	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	25	4.9	24.63	0	101	61.3	114			
Surr: BFB	1200		985.2		117	75.3	105			S

Sample ID: 2103471-021amsd	SampTy	SampType: MSD			TestCode: EPA Method 8015D: Gasoline Range						
Client ID: BS21-21 0-0.5	Batch	ID: <b>58</b>	765	R	tunNo: <b>7</b> 0	6053					
Prep Date: 3/16/2021	Analysis Date: 3/18/2021			S	SeqNo: 20	691989	Units: mg/Kg				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Gasoline Range Organics (GRO)	24	4.7	23.65	0	101	61.3	114	4.29	20		
Surr: BFB	1100		946.1		113	75.3	105	0	0	S	

Sample ID: mb1	SampT	SampType: MBLK			tCode: El	е							
Client ID: PBS	Batch	Batch ID: <b>G76071</b>			RunNo: 7	6071							
Prep Date:	Analysis D	Analysis Date: 3/19/2021			Date: <b>3/19/2021</b> SeqNo: <b>2693889</b>			693889	Units: %Red	;			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr: BFB	1000		1000		99.7	75.3	105						

Sample ID: 2.5ug gro lcs	SampType: LCS TestCode: EPA Method 8015D: Gasoline Range							е							
Client ID: LCSS	Batch	ID: <b>G7</b>	76071	F	RunNo: 7	6071									
Prep Date:	Analysis Date: 3/19/2021 SeqN					693890	Units: %Red	;							
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual					
Surr: BFB	1100		1000	•	113	75.3	105			S					

Sample ID: mb-58791	mb-58791 SampType: MBLK				PA Method	od 8015D: Gasoline Range						
Client ID: PBS	Batch ID:	Batch ID: <b>58791</b> RunNo: <b>76071</b>										
Prep Date: 3/17/2021	Pate: 3/17/2021 Analysis Date: 3/19/2021 SeqNo: 2					Units: %Red	;					
Analyte	Result PC	L SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Surr BER	980	1000		97.5	75.3	105						

Surr: BFB 980 1000

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- % Recovery outside of range due to dilution or matrix

- Analyte detected in the associated Method Blank
- Value above quantitation range
- Analyte detected below quantitation limits
- Sample pH Not In Range
- RL Reporting Limit

Page 37 of 41

### Hall Environmental Analysis Laboratory, Inc.

1100

2103471 22-Mar-21

S

WO#:

**Client:** Devon Energy

Surr: BFB

**Project:** Gaucho Freshwater Pond

Sample ID: Ics-58791 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 58791 RunNo: 76071

Prep Date: 3/17/2021 Analysis Date: 3/19/2021 SeqNo: 2693922 Units: %Rec

1000

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

75.3

105

108

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 38 of 41

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2103471** 

22-Mar-21

**Client:** Devon Energy

**Project:** Gaucho Freshwater Pond

Sample ID: LCS-58764	Tes	tCode: El	PA Method	8021B: Volat	iles					
Client ID: LCSS	Batcl	n ID: <b>58</b> 7	764	F						
Prep Date: 3/16/2021	Analysis D	Analysis Date: <b>3/17/2021</b> SeqNo: <b>2691049</b>					Units: mg/K	ίg		
Analyte	Result PQL SPK value S			SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.85	0.025	1.000	0	85.1	80	120			
Toluene	0.83	0.050	1.000	0	82.7	80	120			
Ethylbenzene	0.82	0.050	1.000	0	81.9	80	120			
Xylenes, Total	2.4	0.10	3.000	0	81.2	80	120			
Surr: 4-Bromofluorobenzene	0.81		1.000		80.9	80	120			

Sample ID: MB-58764	SampT	ype: ME	BLK	Tes	tCode: El	PA Method	8021B: Volat	iles						
Client ID: PBS	Batch ID: 58764			F	RunNo: <b>76022</b>									
Prep Date: 3/16/2021	Analysis D	ate: 3/	17/2021	SeqNo: <b>2691050</b>			Units: mg/K	g						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual				
Benzene	ND	0.025		_			<u>,                                      </u>	<u> </u>	<u>,                                      </u>					
Toluene	ND	0.050												
Ethylbenzene	ND	0.050												
Xylenes, Total	ND	0.10												
Surr: 4-Bromofluorobenzene	0.82		1.000		81.7	80	120							

Sample ID: 2103471-002ams	Гуре: М\$	3	Tes	tCode: El	PA Method	8021B: Volat	tiles				
Client ID: BS21-02 0-0.5	Batc	h ID: <b>58</b>	764	F	RunNo: <b>76022</b>						
Prep Date: 3/16/2021	Analysis [	Date: 3/	17/2021	S	SeqNo: 2	691071	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual	
Benzene	0.83	0.024	0.9434	0	87.8	76.3	120				
Toluene	0.84	0.047	0.9434	0	89.1	78.5	120				
Ethylbenzene	0.85	0.047	0.9434	0	89.8	78.1	124				
Xylenes, Total	2.5	0.094	2.830	0	88.9	79.3	125				
Surr: 4-Bromofluorobenzene	0.77		0.9434		81.6	80	120				

Sample ID: 2103471-002amsd	I SampT	уре: <b>МЅ</b>	SD .	Tes	8021B: Volat	iles				
Client ID: <b>BS21-02 0-0.5</b>	Batch	ID: <b>587</b>	764	F						
Prep Date: 3/16/2021	Analysis D	ate: 3/	17/2021	S	691072	Units: mg/K	(g			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.86	0.024	0.9775	0	87.7	76.3	120	3.49	20	
Toluene	0.88	0.049	0.9775	0	89.6	78.5	120	4.01	20	
Ethylbenzene	0.88	0.049	0.9775	0	90.2	78.1	124	4.02	20	
Xylenes, Total	2.6	0.098	2.933	0	89.6	79.3	125	4.28	20	
Surr: 4-Bromofluorobenzene	0.83		0.9775		85.1	80	120	0	0	

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 39 of 41

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2103471 22-Mar-21** 

**Client:** Devon Energy

**Project:** Gaucho Freshwater Pond

Sample ID: mb-58765 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: **PBS** Batch ID: **58765** RunNo: **76053** 

Prep Date: 3/16/2021 Analysis Date: 3/18/2021 SeqNo: 2692130 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

 Benzene
 ND
 0.025

 Toluene
 ND
 0.050

 Ethylbenzene
 ND
 0.050

 Xylenes, Total
 ND
 0.10

Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120

Sample ID: LCS-58765 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: **LCSS** Batch ID: **58765** RunNo: **76053** 

Prep Date: 3/16/2021 Analysis Date: 3/18/2021 SeqNo: 2692131 Units: mg/Kg

Prep Date: 3/16/2021	Analysis L	Date: 3/	18/2021	5	seqino: 2	692131	Units: mg/K	.g					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual			
Benzene	0.94	0.025	1.000	0	93.9	80	120						
Toluene	0.95	0.050	1.000	0	94.6	80	120						
Ethylbenzene	0.94	0.050	1.000	0	94.4	80	120						
Xylenes, Total	2.8	0.10	3.000	0	93.5	80	120						
Surr: 4-Bromofluorobenzene	1.0		1.000		104	80	120						

Sample ID: 2103471-022ams SampType: MS TestCode: EPA Method 8021B: Volatiles

Client ID: BS21-22 0-0.5 Batch ID: 58765 RunNo: 76053

Prep Date: 3/16/2021	Analysis Date: 3/18/2021			S	SeqNo: 2	692134	Units: mg/k			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.83	0.024	0.9625	0	86.3	76.3	120			
Toluene	0.85	0.048	0.9625	0	88.4	78.5	120			
Ethylbenzene	0.86	0.048	0.9625	0	89.2	78.1	124			
Xylenes, Total	2.6	0.096	2.887	0	88.7	79.3	125			
Surr: 4-Bromofluorobenzene	0.98		0.9625		102	80	120			

Sample ID: 2103471-022amsd SampType: MSD TestCode: EPA Method 8021B: Volatiles

Client ID: BS21-22 0-0.5 Batch ID: 58765 RunNo: 76053

Prep Date: 3/16/2021	Analysis Date: 3/19/2021			S	SeqNo: 2	eqNo: <b>2692135</b> Units: <b>mg/Kg</b>				
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.91	0.024	0.9681	0	93.8	76.3	120	8.84	20	
Toluene	0.92	0.048	0.9681	0	95.1	78.5	120	7.90	20	
Ethylbenzene	0.92	0.048	0.9681	0	95.4	78.1	124	7.22	20	
Xylenes, Total	2.8	0.097	2.904	0	94.9	79.3	125	7.33	20	
Surr: 4-Bromofluorobenzene	1.0		0.9681		105	80	120	0	0	

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 40 of 41

#### Hall Environmental Analysis Laboratory, Inc.

WO#: **2103471 22-Mar-21** 

**Client:** Devon Energy

**Project:** Gaucho Freshwater Pond

Sample ID: mb1 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: B76071 RunNo: 76071

Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693940 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 99.9 80 120

Sample ID: 100ng btex Ics SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: B76071 RunNo: 76071

Prep Date: Analysis Date: 3/19/2021 SeqNo: 2693941 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 102 80 120

Sample ID: mb-58791 SampType: MBLK TestCode: EPA Method 8021B: Volatiles

Client ID: PBS Batch ID: 58791 RunNo: 76071

Prep Date: 3/17/2021 Analysis Date: 3/19/2021 SeqNo: 2693972 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 0.98 1.000 98.2 80 120

Sample ID: LCS-58791 SampType: LCS TestCode: EPA Method 8021B: Volatiles

Client ID: LCSS Batch ID: 58791 RunNo: 76071

Prep Date: 3/17/2021 Analysis Date: 3/19/2021 SeqNo: 2693973 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: 4-Bromofluorobenzene 1.0 1.000 100 80 120

#### Qualifiers:

- Value exceeds Maximum Contaminant Level
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quantitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 41 of 41



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109

TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

### Sample Log-In Check List

Client Name:	Devon En	ergy	Work	Order Nun	nber: 210	3471			Rc	ptNo: 1	
Received By:	Cheyenn	e Cason	3/10/20	21 7:44:00	AM						
Completed By:	Cheyenn	e Cason	3/10/20	21 7:59:33	AM						
Reviewed By:	TO		3/10/7	11							
Chain of Cus	stody										
1. Is Chain of C		olete?			Yes	<b>V</b>	No		Not Present		
2. How was the	sample deliv	vered?			Cou	rier					
Log In 3. Was an atten	npt made to	cool the samp	es?		Yes	<b>✓</b>	No		NA		
4. Were all samp	ples received	l at a tempera	ture of >0° C	to 6.0°C	Yes	<b>✓</b>	No		NA		
5. Sample(s) in	proper conta	iner(s)?			Yes	<b>V</b>	No				
6. Sufficient sam	ple volume f	or indicated te	st(s)?		Yes	<b>V</b>	No				
7. Are samples (	except VOA	and ONG) pro	perly preserve	ed?	Yes	<b>V</b>	No				
8. Was preserva	tive added to	bottles?			Yes		No	<b>v</b>	NA [		
9. Received at le	ast 1 vial wit	h headspace	<1/4" for AQ V	OA?	Yes		No		NA [	✓	
10. Were any san					Yes		No	<b>V</b>			
11.Does paperwo (Note discrepa	ancies on cha	ain of custody)			Yes	<b>✓</b>	No			<2 or >12 unless	noted)
12. Are matrices of					Yes	<b>V</b>	No		Adjusted?	?	
13. Is it clear what			?		Yes	<b>V</b>	No		Oh a alva al la		
14. Were all holding (If no, notify cu					Yes	<b>V</b>	No	Ш	Спескеа в	by: an 3161	21
Special Handl	ing (if app	olicable)									
15. Was client no	tified of all d	iscrepancies v	vith this order?		Yes		No		NA	<b>✓</b>	
Person	Notified:		A CONTRACTOR OF THE PARTY OF	Date		NAME AND ADDRESS OF		management.			
By Who			WARREST PROPERTY OF THE PARTY O	Via:	eM	ail [	Phone	Fax	☐ In Person		
Regardi									CARROLL SECTION AND ADDRESS OF THE PARTY OF	in.	
	nstructions:										
16. Additional rer	marks:										
17. Cooler Infor	1. \$	1.200	[ ] <b>2</b>	Land Comment			Process and the second				
Cooler No	Temp °C 3.2	Condition	Seal Intact	Seal No	Seal D	ate	Signed E	Зу			
2	4.9	Good									

Page 109 of 130 Received by OCD: 3/29/2021 3:17:42 PM P. 4-0.1=4.9 3.1+0.1=5.2 いるがない **ANALYSIS LABORATORY** HALL ENVIRONMENTAL Send all lab reports to seemion @ vertex.ca CC-139878.02.cmp If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. 4901 Hawkins NE - Albuquerque, NM 87109 にら ちゃく Fax 505-345-4107 Remarks:
CC: Monica Jeppin Device
Per Monica Add BTEX HPH to All Sample. www.hallenvironmental.com **Analysis Request** Total Coliform (Present/Absent) (AOV-ima2) 07S8 (AOV) 09S8 CI)E' NO2, PO4, SO4 Br, NO3, Tel. 505-345-3975 RCRA 8 Metals 2HAS by 8310 or 8270SIMS EDB (Method 504.1) #0/3 8081 Pesticides/8082 PCB's Remarks: PH:8015D(GRO / DRO / MRO) MTBE / TMB's (8021) BTEX / Freshwater Yond (S) 0930 5744 Time Time HEAL No. 82 603 210347 28 500 88 6001 300 Som of Rush Doug 8 80 010 110 2/9/21 10 Date 3/10/4 Cooler Temp(including CF): See Km **%** □ Project Manager: Moni ca Peppin Project #: 21 E - 00580 Preservative 10,0 X Xes Sampler: MJP # of Coolers: 25 2 Com Turn-Around Time: Type Project Name: □ Standard Type and # Received by: Container Received by: てのカ 2 On Ice: 0-0.5 0-0.5 0-0.5 0-0.5 0:0.5 0-0.5 0-0.5 0-0.5 0-0.5 0-0.5 0.0.5 0-0.5 ☐ Level 4 (Full Validation) Chain-of-Custody Record Sample Name 1-03 R501-06 BS21-05 Mon Entray 0-B521-09 BS9 1-02 78-18 B521-08 8591-10 RS31-07 RS21-1 RSA ☐ Az Compliance R501 BS3.1 Relinquished Amenda Davis □ Other 0:00 Soil Matrix Mailing Address: Ship 6,8 030 AA/QC Package: 9:30 00,01 3 36 Time 3 95 EDD (Type) email or Fax#: Accreditation: Time: Standard Standard Time: □ NELAC Phone #: Client: 7 3/8 Date

HALL ENVIRONMENTAL
ANALYSIS LABORATORY

www.hallenvironmental.com

wkins NE - Albuquerque, NM 87109

-345-3975 Fax 505-345-4107

Analysis Request Page 110 of 130 ANALYSIS LABORATORY いったりい HALL ENVIRONMENTAL If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report w/o#: CC-139878.02. CMP Sendall labraports to 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Total Coliform (Present/Absent) (AOV-ima2) 07S8 Remarks: Monica Dupin Bt' NO3' (D) NO2, PO4, SO4 RCRA 8 Metals PAHs by 8310 or 8270SIMS EDB (Method 504.1) 8081 Pesticides/8082 PCB's (ORM \ ORO \ DRO \ MRO) MTBE / TMB's (8021) BTEX / 03/10/21 0744 (၁ (၁) Project Name: Gauche Freshwater Pond 800 HEAL No. 015 2(03471 024 022 570 Same in Day 210 119 020 021 292 619 800 ºN □ Project Manager:
Monica Poppin M Rush Project #: 21E - 00580 Preservative 70-Cooler Temp(including CF): moles of A Yes Sampler: MJP # of Coolers: Turn-Around Time: Via: □ Standard Type and # 七の七 Container Received by: Received by: On Ice: 0-0.5 0.0.5 BS21-13 0-0.5 0.0.0 BS31-150-0.5 -160-0.5 0-0.5 0,0,0 BS31-22 0-0.5 0-0.5 \$0.5 0-0.5 ☐ Level 4 (Full Validation Chain-of-Custody Record Sample Name BS211-33 BS31-24 Frengy RS21-14 BS31-20 11 B521-18 R221-19 B531-31 □ Az Compliance RS3.1 Relinquished by: Relinguished by □ Other Matrix Client: ( ) ON ON 12:0050 Chain-Client: Chain-G SQA/QC Package: 2:30 2 2:00 3 1150 ☐ EDD (Type) Time 2:3 1500 email or Fax#: 0970 Accreditation: Time: Time: Standard Standard □ NELAC Phone #: 3/9/21 Date Date:

Red	ceivea	l by C	OCD: 3/2	9/2021	1 3:1	7:42	PM															Page	111 of .
	COCK ON ON COCK COCK	ANALYSTS LABORATORY	www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109	Tel. 505-345-3975 Fax 505-345-4107	Analysis Requ	<sup>†</sup> OS S s,	bO⁴' bCB.	280 (1. (2) (2)	8/80 8/80 90 \$ 10 8 3 90 (A(0)	(GR side stals NO <sub>3</sub>	detice lethol y 83 8 Me 3r, 18 (AO)	BTEX / 8081 Pa 8081 Pa PAHS b RCRA 8 (J) Fa, E 8260 (V 8270 (S										Remarks: CC: Manica Peppin	2/0#: CC-139878 02. UMP
V	ie:	W Rush Day	Freshwater Pond		0800		U ddo		es 🗆 No	en c	3 CF): See Fist page (°C)	HEAL No. $2(0347)$	cl 625	0.26	627	820	0.29	0.30	031	035		Date Time 3 / 2/ 0936	Date Time
	Turn-Around Time:	□ Standard	Project Name:	Project #:		Project Manager:	9 50 -	Sampler: MJP	On Ice:	# of Coolers: "	Cooler Temp(including CF): See	Container Prese Type and # Type											Received by: Via:
	Chain-of-Custody Record	n Enuray	V 5 5 1/4				© Standard □ Level 4 (Full Validation)	☐ Az Compliance	□ Other	□ EDD (Type)		Date Time Matrix Sample Name	3-0-6	8521-36 B-0.5	5.0-0 TG-1628 DESE	3:45 85-168 54:5	8521-29 0-0.5	1 1521-30 0-0-5	4530 BSS1-31 0-0.5	1 4515   BS21-32 0-0.5		Time: Relinquished by:	Date: Time: Relinquished by:

# Attachment 4





Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

May 21, 2021

Jason Crabtree Devon Energy 6488 Seven Rivers Highway Artesia, NM 88210

TEL: (505) 350-1336

FAX:

RE: Gaucho Treated Pond OrderNo.: 2105874

#### Dear Jason Crabtree:

Hall Environmental Analysis Laboratory received 1 sample(s) on 5/20/2021 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results, it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifiers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0901

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

# **Analytical Report**Lab Order **2105874**

Date Reported: 5/21/2021

## Hall Environmental Analysis Laboratory, Inc.

CLIENT:Devon EnergyClient Sample ID: Guacho TW PondProject:Gaucho Treated PondCollection Date: 5/19/2021 12:30:00 PMLab ID:2105874-001Matrix: MEOH (SOIL)Received Date: 5/20/2021 11:30:00 AM

Analyses	Result	RL	Qual Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS					Analyst:	VP
Chloride	ND	60	mg/Kg	20	5/20/2021 12:12:18 PM	60151
EPA METHOD 8015M/D: DIESEL RANGE ORG	ANICS				Analyst:	SB
Diesel Range Organics (DRO)	ND	9.5	mg/Kg	1	5/20/2021 12:49:55 PM	60152
Motor Oil Range Organics (MRO)	ND	48	mg/Kg	1	5/20/2021 12:49:55 PM	60152
Surr: DNOP	106	70-130	%Rec	1	5/20/2021 12:49:55 PM	60152
EPA METHOD 8015D: GASOLINE RANGE					Analyst:	NSB
Gasoline Range Organics (GRO)	ND	3.7	mg/Kg	1	5/20/2021 12:09:11 PM	60139
Surr: BFB	97.1	70-130	%Rec	1	5/20/2021 12:09:11 PM	60139
EPA METHOD 8021B: VOLATILES					Analyst:	NSB
Benzene	ND	0.019	mg/Kg	1	5/20/2021 12:09:11 PM	60139
Toluene	ND	0.037	mg/Kg	1	5/20/2021 12:09:11 PM	60139
Ethylbenzene	ND	0.037	mg/Kg	1	5/20/2021 12:09:11 PM	60139
Xylenes, Total	ND	0.074	mg/Kg	1	5/20/2021 12:09:11 PM	60139
Surr: 4-Bromofluorobenzene	106	70-130	%Rec	1	5/20/2021 12:09:11 PM	60139

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
  - 8 % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 1 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: 2105874 21-May-21

**Client:** Devon Energy

**Project:** Gaucho Treated Pond

TestCode: EPA Method 300.0: Anions Sample ID: MB-60151 SampType: MBLK

Client ID: PBS Batch ID: 60151 RunNo: 77526

Prep Date: 5/20/2021 Analysis Date: 5/20/2021 SeqNo: 2752461 Units: mg/Kg

Analyte SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual

Chloride ND 1.5

Sample ID: LCS-60151 SampType: LCS TestCode: EPA Method 300.0: Anions

Client ID: LCSS Batch ID: 60151 RunNo: 77526

1.5

Analysis Date: 5/20/2021 Prep Date: 5/20/2021 SeqNo: 2752462 Units: mg/Kg

15.00

SPK value SPK Ref Val %REC LowLimit %RPD **RPDLimit** PQL HighLimit Qual Analyte 0

92.7

#### Qualifiers:

Chloride

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

% Recovery outside of range due to dilution or matrix

Analyte detected in the associated Method Blank

Value above quantitation range

Analyte detected below quantitation limits

Sample pH Not In Range

Reporting Limit

Page 2 of 6

### Hall Environmental Analysis Laboratory, Inc.

WO#: **2105874** 

21-May-21

**Client:** Devon Energy

**Project:** Gaucho Treated Pond

Sample ID: MB-60136 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 60136 RunNo: 77529

Prep Date: 5/19/2021 Analysis Date: 5/20/2021 SeqNo: 2751569 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 9.6 10.00 96.0 70 130

Sample ID: LCS-60136 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 60136 RunNo: 77529

Prep Date: 5/19/2021 Analysis Date: 5/20/2021 SeqNo: 2751642 Units: %Rec

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Surr: DNOP 4.7 5.000 94.9 70 130

Sample ID: LCS-60152 SampType: LCS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: LCSS Batch ID: 60152 RunNo: 77529

Prep Date: 5/20/2021 Analysis Date: 5/20/2021 SeqNo: 2751985 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) 49 10 50.00 0 98.5 68.9 141

 Diesel Range Organics (DRO)
 49
 10
 50.00
 0
 98.5
 68.9
 141

 Surr: DNOP
 5.0
 5.000
 99.1
 70
 130

Sample ID: MB-60152 SampType: MBLK TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: PBS Batch ID: 60152 RunNo: 77529

Prep Date: 5/20/2021 Analysis Date: 5/20/2021 SeqNo: 2751986 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) ND 10

Motor Oil Range Organics (MRO) ND 50

Surr: DNOP 12 10.00 120 70 130

Sample ID: 2105874-001AMS SampType: MS TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: Guacho TW Pond Batch ID: 60152 RunNo: 77529

Prep Date: 5/20/2021 Analysis Date: 5/20/2021 SeqNo: 2752090 Units: mg/Kg

Analyte Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Diesel Range Organics (DRO) 47 9.4 46.95 0 100 15 184

Surr: DNOP 4.8 4.695 102 70 130

Sample ID: 2105874-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: Guacho TW Pond Batch ID: 60152 RunNo: 77529

Prep Date: 5/20/2021 Analysis Date: 5/20/2021 SeqNo: 2752095 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Diesel Range Organics (DRO) 45 9.1 45.45 0 99.3 15 184 3.98 23.9

#### Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 3 of 6

## Hall Environmental Analysis Laboratory, Inc.

4.5

2105874 21-May-21

WO#:

**Client:** Devon Energy

Surr: DNOP

**Project:** Gaucho Treated Pond

Sample ID: 2105874-001AMSD SampType: MSD TestCode: EPA Method 8015M/D: Diesel Range Organics

Client ID: Guacho TW Pond Batch ID: 60152 RunNo: 77529

Prep Date: 5/20/2021 Analysis Date: 5/20/2021 SeqNo: 2752095 Units: mg/Kg

4.545

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

99.0

70

130

Qualifiers:

Value exceeds Maximum Contaminant Level.

D Sample Diluted Due to Matrix

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

PQL Practical Quanitative Limit

S % Recovery outside of range due to dilution or matrix

B Analyte detected in the associated Method Blank

E Value above quantitation range

J Analyte detected below quantitation limits

P Sample pH Not In Range

RL Reporting Limit

Page 4 of 6

## Hall Environmental Analysis Laboratory, Inc.

WO#: **2105874 21-May-21** 

**Client:** Devon Energy

**Project:** Gaucho Treated Pond

Sample ID: mb-60139 SampType: MBLK TestCode: EPA Method 8015D: Gasoline Range

Client ID: PBS Batch ID: 60139 RunNo: 77537

Prep Date: 5/19/2021 Analysis Date: 5/20/2021 SeqNo: 2752224 Units: mg/Kg

Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual

Gasoline Range Organics (GRO) ND 5.0

Surr: BFB 990 1000 99.2 70 130

Sample ID: Ics-60139 SampType: LCS TestCode: EPA Method 8015D: Gasoline Range

Client ID: LCSS Batch ID: 60139 RunNo: 77537

Prep Date: 5/19/2021 Analysis Date: 5/20/2021 SeqNo: 2752225 Units: mg/Kg

SPK value SPK Ref Val %REC %RPD Result **PQL** LowLimit HighLimit **RPDLimit** Qual 25 78.6 Gasoline Range Organics (GRO) 5.0 25.00 0 98.6 131 Surr: BFB 1100 1000 110 70 130

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 5 of 6

# Hall Environmental Analysis Laboratory, Inc.

1.1

WO#: **2105874** 

21-May-21

**Client:** Devon Energy

Surr: 4-Bromofluorobenzene

**Project:** Gaucho Treated Pond

Sample ID: mb-60139	SampType: MBLK			TestCode: EPA Method 8021B: Volatiles						
Client ID: PBS	Batch	n ID: <b>60</b> 1	139	F	RunNo: <b>7</b> 7	7537				
Prep Date: 5/19/2021	Analysis D	Date: 5/2	20/2021	S	SeqNo: 27	752268	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.025								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								

109

70

130

Sample ID: LCS-60139	Samp <sup>-</sup>	Гуре: <b>LC</b>	S	Tes						
Client ID: LCSS	Batc	h ID: <b>60</b> ′	139	F	7537					
Prep Date: 5/19/2021	Analysis [	Date: <b>5/</b>	20/2021	S	SeqNo: 2	752269	Units: mg/K	g		
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.93	0.025	1.000	0	92.6	80	120			
Toluene	0.96	0.050	1.000	0	95.7	80	120			
Ethylbenzene	0.95	0.050	1.000	0	95.1	80	120			
Xylenes, Total	2.9	0.10	3.000	0	95.5	80	120			
Surr: 4-Bromofluorobenzene	1 1		1 000		107	70	130			

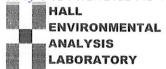
1.000

#### Qualifiers:

- Value exceeds Maximum Contaminant Level.
- D Sample Diluted Due to Matrix
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- PQL Practical Quanitative Limit
- S % Recovery outside of range due to dilution or matrix

- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH Not In Range
- RL Reporting Limit

Page 6 of 6



Hall Environmental Analysis Laboratory 4901 Hawkins NE

Sample Log-In Check List Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: clients.hallenvironmental.com

Client Name: Devon Ener	r <b>gy</b> Work	Order Number: 210	5874		RcptNo	1
Received By: Sean Livin	ngston 5/20/20	021 11:30:00 AM		Sala	yst-	
Completed By: Desiree De	ominguez 5/20/20	21 11:30:28 AM		TDS		
Reviewed By: SPA S	5.20.31					
Chain of Custody						
1. Is Chain of Custody compl	ete?	Yes	<b>V</b>	No 🗌	Not Present	
2. How was the sample delive	ered?	Cou	rier			
Log In					_	
Was an attempt made to c	ool the samples?	Yes	<b>V</b>	No 🗌	NA 🗌	
4. Were all samples received	at a temperature of >0° C	to 6.0°C Yes	<b>V</b>	No 🗌	NA 🗆	
5. Sample(s) in proper contain	ner(s)?	Yes	<b>V</b>	No 🗌		
6. Sufficient sample volume fo	or indicated test(s)?	Yes	<b>V</b>	No 🗌		
7. Are samples (except VOA a	and ONG) properly preserve	ed? Yes	<b>V</b>	No 🗌		
8. Was preservative added to	bottles?	Yes		No 🗸	NA 🗌	
9. Received at least 1 vial with	n headspace <1/4" for AQ \	/OA? Yes		No 🗌	NA 🗸	
10. Were any sample containe	rs received broken?	Yes		No 🗸	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
					# of preserved bottles checked	
11. Does paperwork match bot		Yes	<b>V</b>	No 📙	for pH:	>12 unless noted)
(Note discrepancies on cha 2. Are matrices correctly ident		Yes	<b>V</b>	No 🗌	Adjusted?	- 12 dilless floted)
3. Is it clear what analyses we		Yes	<b>V</b>	No 🗆		
4. Were all holding times able	to be met?	Yes	<b>✓</b>	No 🗌	Checked by:	ENM 5/20
(If no, notify customer for a						
Special Handling (if app		0 V		м. П	NA 🗸	
15. Was client notified of all di	screpancies with this order	? Yes		No 🗔	NA 💌	
Person Notified:		Date:				
By Whom:		Via: eM	lail [	Phone Fax	☐ In Person	
Regarding:	Service extransive account of the control of the co		under an include		PROFES IN THE PROFESSION OF TH	
Client Instructions:						
16. Additional remarks:						
17. Cooler Information						
Cooler No Temp °C	Condition Seal Intact	Seal No Seal D	ate	Signed By	¥	
	Condition Seal Intact	Seal No Seal D	ate	Signed By		

HALL ENVIRONMENTAL ANALYSIS LABORATORY  www.hallenvironmental.com kins NE - Albuquerque, NM 87109 845-3975 Fax 505-345-4107 Analysis Request	S260 (VOA) 8260 (VOA) 8270 (Semi-VOA) Total Coliform (Present/Absent)	<u> </u>	Bill devo please cc johen gel will be clearly notated on the analytical report.
HALL ANAL  **ANAL **ANA	ETEN MTBE / TMB's (8021)  PH:8015D(GRO / DRO / MRO)  EDB (Method 504.1)  PAHs by 8310 or 8270SIMS  RCRA 8 Metals		Remarks: Direct Bill CC: Morres Papers Valle 139878788 800 spossibility. Any sub-contracted data will be
and Time: SHME DAY lard WRush Overnight  ame: Acho Treshall land	Project Manager:  Jason Cashree Cortor Cashree  Sampler: J.A  On Ice: Type and # Type  Type and # Type  Jerabtree Covertor Cooler  Jerabtree Covertor  Jerabtree Covertor  No  No  No  No  HEAL No.  Type and # Type	1,56	Via: $\int_{0}^{0} \int_{0}^{1}$
Chain-of-Custody Record  Turn-Around Turn	4 (Full Validation)	aucho Tur loud	Time: Relinquished by: Received by: Via: Pate Time Remarks: Direct Bill devolutionmental may be subcontracted to other accredited laboratories. Time Remarks: Direct Bill and the analytical report.    All all Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.
Client: $\sqrt{e \sim \alpha}$	email or Fax#:  QA/QC Package:   Standard  Accreditation:	9 (2.30	Date: Time: Relinquished by:  5-/9   5  5    Date: Time: Relinquished by:  5/9/1/   1900   0   0    If necessary, samples submitted to

### Venegas, Victoria, EMNRD

From: Inscore, Josh <Josh.Inscore@dvn.com>
Sent: Thursday, January 21, 2021 9:00 AM

**To:** Enviro, OCD, EMNRD

Cc: Venegas, Victoria, EMNRD; Bratcher, Mike, EMNRD; Inscore, Josh

**Subject:** [EXT] Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho

Containment

Attachments: N&S Gaucho Pit Closure Plan.pdf

#### To whom it may concern:

Devon Energy plans to begin mobilizing equipment to commence closure and site reclamation operations at the North Gaucho Containment in accordance with <u>19.15.34.14</u> CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS on or about January 25, 2021. Closure plan attached for reference.

#### Josh Inscore

Completions Engineer - Delaware Basin

Office: (405) 228-8385 Mobile: (405) 403-1426



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

### Venegas, Victoria, EMNRD

From: Venegas, Victoria, EMNRD

**Sent:** Wednesday, June 23, 2021 10:07 AM

To: 'Raup, Bob'

**Cc:** Mathews, Wesley; DeHoyos, Kendra

**Subject:** 1RF-6 - North Gaucho Containment and Recycling Facility [fTO1527936646]. Closure

Approved.

**Attachments:** C-147\_1RF-6\_North Gaucho Containment 06.23.2021.pdf

#### 1RF-6 - North Gaucho Containment and Recycling Facility [fTO1527936646]. Closure Approved.

NMOCD has reviewed the closure report submitted for [6137] DEVON ENERGY PRODUCTION COMPANY LP, on March 28, 2021 and the additional information submitted on May 29, 2021 for 1RF-6 - North Gaucho Containment and Recycling Facility # [fTO1527936646] in B-20-22S-34E, Lea County, New Mexico. The closure report has been approved.

Please note that according to 19.15.34.14.G: The re-vegetation and reclamation obligations imposed by federal, state trust land or tribal agencies on lands managed by those agencies shall supersede these provisions and govern the obligations of any operator subject to those provisions, provided that the other requirements provide equal or better protection of fresh water, human health and the environment. In accordance with 19.15.34.14.H, the operator shall notify the division when reclamation and re-vegetation are complete.

A copy of the approved C-147 for 1RF-6 - North Gaucho Containment and Recycling Facility # [fTO1527936646] can be found in the OCD Imaging system @:

https://ocdimage.emnrd.state.nm.us/imaging/FacilityFileView.aspx?facility=fTO1527936646

Regards,

Victoria Venegas • Environmental Specialist Environmental Bureau EMNRD - Oil Conservation Division 811S. First St. | Artesia, NM 88210 (575) 909-0269 | Victoria.Venegas@state.nm.us

http://www.emnrd.state.nm.us/OCD/



From: Raup, Bob <Bob.Raup@dvn.com> Sent: Tuesday, June 22, 2021 12:51 PM

To: Venegas, Victoria, EMNRD < Victoria. Venegas@state.nm.us>

Cc: Mathews, Wesley < Wesley. Mathews@dvn.com >; DeHoyos, Kendra < Kendra. DeHoyos@dvn.com >

Subject: [EXT] RE: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho

Containment

#### Good Afternoon,

Please see the attached C-147 Long Form along with the Closure Report that Amanda Davis had previously submitted to you. If this is acceptable to you, we can go ahead and upload via the portal as well if you prefer.

Please do not hesitate to contact me if you need additional information or have questions.

Thank you, Bob

Robert W. Raup II Environmental Supervisor

Phone: 405-228-2487 | Mobile: 701-310-5194

Bob.Raup@dvn.com



From: Venegas, Victoria, EMNRD < Victoria. Venegas@state.nm.us>

**Sent:** Wednesday, June 16, 2021 3:12 PM **To:** Raup, Bob < Bob.Raup@dvn.com >

Cc: Mathews, Wesley < Wesley. Mathews@dvn.com >

Subject: RE: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho

Containment

#### Good afternoon,

Please email me a C-147 Long Form, signed and dated, for this closure request. The form C-147 short form included in the report is for Recycling Facilities only. 1RF-6 was permitted as a containment. Thank you,

#### Victoria Venegas • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
811S. First St. | Artesia, NM 88210
(575) 909-0269 | Victoria.Venegas@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Raup, Bob < Bob.Raup@dvn.com > Sent: Thursday, June 3, 2021 11:02 AM

To: Venegas, Victoria, EMNRD < Victoria. Venegas@state.nm.us >

Cc: Mathews, Wesley < Wesley. Mathews@dvn.com>

Subject: [EXT] FW: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho

Containment

Good Morning,

I wanted to let you know that either Wes or myself will be submitting the North Gaucho Containment Closure Report via the portal here within the next few days. As of June 1<sup>st</sup>, Amanda is no longer with Devon, but her last email was to ensure that I get this submitted. I will let you know once it has been submitted.

Thank you, Bob

Robert W. Raup II Environmental Supervisor

Phone: 405-228-2487 | Mobile: 701-310-5194

Bob.Raup@dvn.com



From: Davis, Amanda < Amanda. Davis@dvn.com>

**Sent:** Tuesday, June 1, 2021 4:48 PM **To:** Raup, Bob <Bob.Raup@dvn.com>

Subject: Fwd: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho

Containment

I've already turned in my computer and my P-card.

#### Get Outlook for iOS

From: Venegas, Victoria, EMNRD < <a href="mailto:Victoria.Venegas@state.nm.us">Victoria.Venegas@state.nm.us</a>>

Sent: Tuesday, June 1, 2021 2:40 PM

To: Davis, Amanda

Subject: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

Good afternoon Ms. Davis, Could you please submit the report via OCD.online? Thanks in advance for your help. Best,

Victoria Venegas • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
811S. First St. | Artesia, NM 88210
(575) 909-0269 | Victoria.Venegas@state.nm.us
<a href="mailto:http://www.emnrd.state.nm.us/OCD/">http://www.emnrd.state.nm.us/OCD/</a>



From: Davis, Amanda < Amanda. Davis@dvn.com>

Sent: Saturday, May 29, 2021 9:00 PM

**To:** Venegas, Victoria, EMNRD < <u>Victoria.Venegas@state.nm.us</u>>; Inscore, Josh < <u>Josh.Inscore@dvn.com</u>>; Hernandez, Emily, EMNRD < Emily.Hernandez@state.nm.us>

**Cc:** Bratcher, Mike, EMNRD <<u>mike.bratcher@state.nm.us</u>>; 'rmann@slo.state.nm.us' <<u>rmann@slo.state.nm.us</u>>; <u>MNaranjo@slo.state.nm.us</u>; <u>bboone@slo.state.nm.us</u>; Bruening, Josh <<u>Josh.Bruening@dvn.com</u>>; Raup, Bob <Bob.Raup@dvn.com>; Mathews, Wesley <Wesley.Mathews@dvn.com>

Subject: [EXT] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

Ms. Venegas,

Attached you will find the requested information from your April 24, 2021 email. If you require any additional information please contact Josh Inscore.

Thank you,

#### **Amanda Trujillo Davis**

**Environmental Professional** 

**Devon Energy Corporation** 6488 Seven Rivers Highway Artesia, New Mexico 88210 (575) 748-0176 Direct (505) 350-1336 Mobile



From: Venegas, Victoria, EMNRD < <a href="mailto:Venegas@state.nm.us">Victoria.Venegas@state.nm.us</a>>

Sent: Thursday, April 22, 2021 2:40 PM

**To:** Inscore, Josh < <u>Josh.Inscore@dvn.com</u>>; Davis, Amanda < <u>Amanda.Davis@dvn.com</u>>; Hernandez, Emily, EMNRD < <u>Emily.Hernandez@state.nm.us</u>>

**Cc:** Bratcher, Mike, EMNRD < mike.bratcher@state.nm.us >; 'rmann@slo.state.nm.us' < rmann@slo.state.nm.us >; MNaranjo@slo.state.nm.us; bboone@slo.state.nm.us

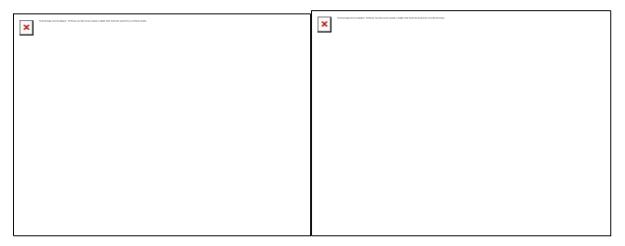
Subject: [EXTERNAL] RE: Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

#### 1RF-6 - North Gaucho Containment and Recycling Facility. Closure Report.

NMOCD is reviewing the closure request submitted by [6137] DEVON ENERGY PRODUCTION COMPANY, LP, for 1RF-6 - North Gaucho Containment and Recycling Facility in B-20-22S-34E, Lea County, New Mexico. Before continuing with the evaluation of this closure report, the Division requests the following additional information:

Devon must submit all copies of 1RF-6 - North Gaucho Containment and Recycling Facility's leak detection
system inspection logs. Operators should include the detailed inspection records for the registration/permit
period. Inspection records should include, but are not limited to, notes describing the weekly leak detection
system testing and operations, the absence/presence of water in the leak detection system, the last time the
containment was cleaned, and any oil product, debris, or foreign material found in the leak detection system
and/or containment.

- 2. Additional delineation samples are required at BH21-07 per 19.15.34.14.C.1.
- 3. Devon must provide geotag grab samples in the vicinity of the location in the pictures below. Please note that if a release has occurred, Devon must remediate the affected area per 19.15.29. NMAC.



Please do not hesitate to contact me if you have further questions or concerns. Regards,

Victoria Venegas • Environmental Specialist

Environmental Bureau
EMNRD - Oil Conservation Division
811S. First St. | Artesia, NM 88210
(575) 909-0269 | Victoria.Venegas@state.nm.us
http://www.emnrd.state.nm.us/OCD/



From: Inscore, Josh < <u>Josh.Inscore@dvn.com</u>>
Sent: Thursday, January 21, 2021 9:00 AM

To: Enviro, OCD, EMNRD < OCD. Enviro@state.nm.us>

**Cc:** Venegas, Victoria, EMNRD < <u>Victoria.Venegas@state.nm.us</u>>; Bratcher, Mike, EMNRD < <u>mike.bratcher@state.nm.us</u>>; Inscore, Josh < <u>Josh.Inscore@dvn.com</u>>

Subject: [EXT] Devon 1RF-6: Notification of Closure and Site Reclamation of the North Gaucho Containment

To whom it may concern:

Devon Energy plans to begin mobilizing equipment to commence closure and site reclamation operations at the North Gaucho Containment in accordance with <u>19.15.34.14</u> CLOSURE AND SITE RECLAMATION REQUIREMENTS FOR RECYCLING CONTAINMENTS on or about January 25, 2021. Closure plan attached for reference.

#### **Josh Inscore**

Completions Engineer - Delaware Basin

Office: (405) 228-8385 Mobile: (405) 403-1426



Confidentiality Warning: This message and any attachments are intended only for the use of the intended recipient(s), are confidential, and may be privileged. If you are not the intended recipient, you are hereby notified that any review, retransmission, conversion to hard copy, copying, circulation or other use of all or any portion of this message and any attachments is strictly prohibited. If you are not the intended recipient, please notify the sender immediately by return e-mail, and delete this message and any attachments from your system.

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

**State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division** 1220 S. St Francis Dr. **Santa Fe, NM 87505** 

CONDITIONS

Action 22176

#### **CONDITIONS**

Operator:	OGRID:
DEVON ENERGY PRODUCTION COMPANY, LP	6137
333 West Sheridan Ave.	Action Number:
Oklahoma City, OK 73102	22176
	Action Type:
	[C-147] Water Recycle Long (C-147L)

#### CONDITIONS

- 1	Created	Condition	Condition
- [1	Ву		Date
-	vvenegas	NMOCD has reviewed the closure report submitted for [6137] DEVON ENERGY PRODUCTION COMPANY LP, on March 28, 2021 and the additional information submitted on May 29, 2021	6/23/2021
		for 1RF-6 - North Gaucho Containment and Recycling Facility # [fTO1527936646] in B-20-22S-34E, Lea County, New Mexico. The closure report has been approved.	1