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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **Sims Mesa Compressor Station**	Facility Type: **Glycol Dehydration Unit**

Surface Owner: **BLM**	Mineral Owner	BLM Project No. **NMNM81378**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	**22**	**30N**	**7W**					**Rio Arriba**

Latitude 36.805198 Longitude -107.549568

NATURE OF RELEASE

Type of Release: **Natural Gas and Glycol**	Volume of Release: **65.7 MCF Natural Gas** **10 gallons of glycol**	Volume Recovered: **0 MCF Natural Gas** **5 yards impacted soil removed.**
Source of Release: **Nipple on the dehy glycol pump broke.**	Date and Hour of Occurrence: **5/14/2018 @ 4:45 PM**	Date and Hour of Discovery: **5/14/2018 @ 4:45 PM**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **NA**	NMOCD
By Whom? **NA**	Date and Hour: **NA**	JUL 13 2018
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	DISTRICT III

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*
The nipple on the glycol recirculation pump on the dehydration unit broke releasing natural gas to the atmosphere and a glycol mist impacting surrounding area. Upon discovery, the release was isolated and the dehy unit was bypassed and put out of service.

Describe Area Affected and Cleanup Action Taken.*
Approximately 8' X 5' area impacted by glycol mist. 5 yards of impacted soil was removed. Confirmation sample results show levels below remediation standards based on location risk ranking. Please see further documentation attached.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 7/23/18 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: ~ Attached ☐
Date: **7/9/2018** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

NVF1820436722

1.4

Remediation Excavation and Sampling Form

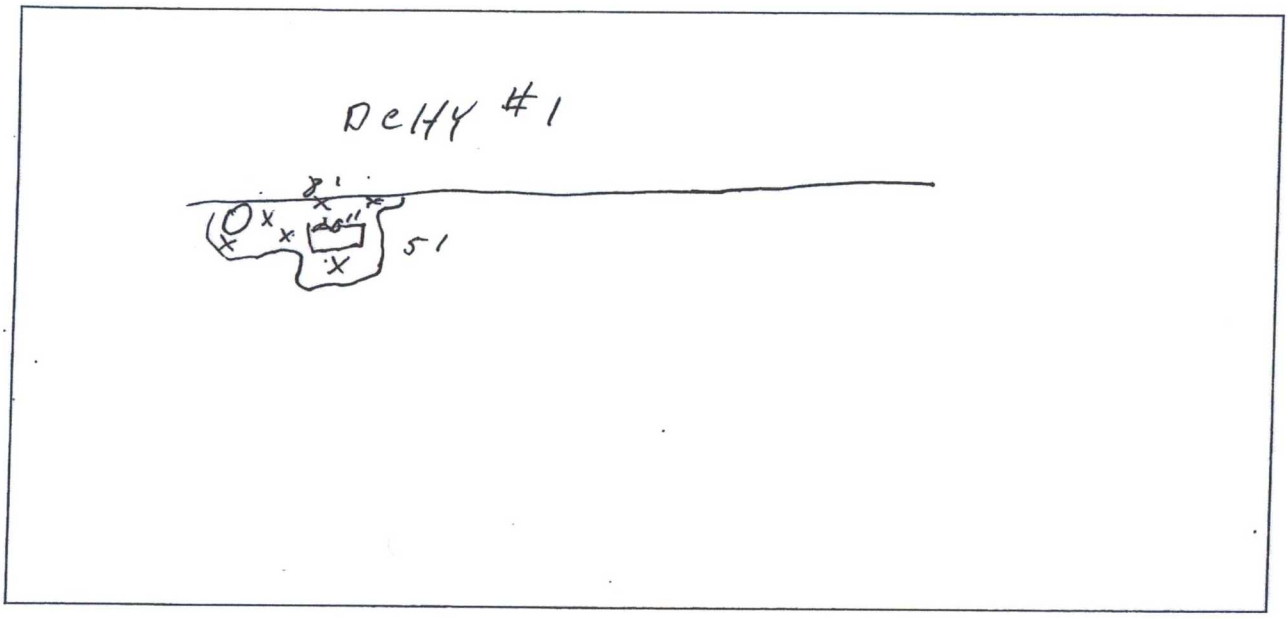
Site Name sims mesa cop

Excavation Dimensions (feet)

8' Length 5 Width 20'' Depth

Excavation Diagram and Sample Locations

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



Sample Information

OCD Witness Sampling Yes or (No)

Agency(s) Representative(s) _____

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
Sims mesa	6-4-18	composite	Floor	

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

June 26, 2018

Kijun Hong
Williams Field Services
1755 Arroyo Dr.,
Bloomfield, NM 87413
TEL: (505) 632-4442
FAX

RE: DeHY 1 Sim Mesa Glycol Spill OrderNo.: 1806142

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 1 sample(s) on 6/5/2018 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1806142**
Date Reported: **6/26/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: DeHY 1 Sim Mesa Glycol Spill
Lab ID: 1806142-001 **Matrix:** SOIL

Client Sample ID: Sims mesa comp Pelty#1
Collection Date: 6/4/2018 9:00:00 AM
Received Date: 6/5/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	45	30		mg/Kg	20	6/22/2018 12:42:08 AM	38805
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **JME**	
Diesel Range Organics (DRO)	69	10		mg/Kg	1	6/7/2018 9:30:30 PM	38523
Motor Oil Range Organics (MRO)	79	50		mg/Kg	1	6/7/2018 9:30:30 PM	38523
Surr: DNOP	109	70-130		%Rec	1	6/7/2018 9:30:30 PM	38523
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.7		mg/Kg	1	6/6/2018 8:06:41 PM	38499
Surr: BFB	93.8	15-316		%Rec	1	6/6/2018 8:06:41 PM	38499
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	6/6/2018 8:06:41 PM	38499
Toluene	ND	0.047		mg/Kg	1	6/6/2018 8:06:41 PM	38499
Ethylbenzene	ND	0.047		mg/Kg	1	6/6/2018 8:06:41 PM	38499
Xylenes, Total	ND	0.095		mg/Kg	1	6/6/2018 8:06:41 PM	38499
Surr: 4-Bromofluorobenzene	103	80-120		%Rec	1	6/6/2018 8:06:41 PM	38499

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806142**

26-Jun-18

Client: Williams Field Services

Project: DeHY 1 Sim Mesa Glycol Spill

Sample ID	**MB-38805**	SampType: **mblk**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID: **38805**			RunNo: **52139**					
Prep Date:	**6/20/2018**	Analysis Date: **6/21/2018**			SeqNo: **1708587**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-38805**	SampType: **lcs**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID: **38805**			RunNo: **52139**					
Prep Date:	**6/20/2018**	Analysis Date: **6/21/2018**			SeqNo: **1708588**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	93.5	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 Detection Limit
W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806142**

26-Jun-18

Client: Williams Field Services

Project: DeHY 1 Sim Mesa Glycol Spill

Sample ID **MB-38523**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **38523**	RunNo: **51792**
Prep Date: **6/6/2018**	Analysis Date: **6/7/2018**	SeqNo: **1691851** 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		102	70	130			

Sample ID **LCS-38523**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **38523**	RunNo: **51792**
Prep Date: **6/6/2018**	Analysis Date: **6/7/2018**	SeqNo: **1691852** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	104	70	130			
Surr: DNOP	4.9		5.000		97.6	70	130			

Sample ID **1806142-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Sims mesa comp P**	Batch ID: **38523**	RunNo: **51792**
Prep Date: **6/6/2018**	Analysis Date: **6/7/2018**	SeqNo: **1691874** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	88	10	50.35	69.03	37.1	62	120			S
Surr: DNOP	5.5		5.035		110	70	130			

Sample ID **1806142-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **Sims mesa comp P**	Batch ID: **38523**	RunNo: **51792**
Prep Date: **6/6/2018**	Analysis Date: **6/7/2018**	SeqNo: **1691875** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	80	10	50.05	69.03	22.1	62	120	9.07	20	S
Surr: DNOP	5.4		5.005		108	70	130	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806142**

26-Jun-18

Client: Williams Field Services

Project: DeHY 1 Sim Mesa Glycol Spill

Sample ID **MB-38499**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **38499**	RunNo: **51763**
Prep Date: **6/5/2018**	Analysis Date: **6/6/2018**	SeqNo: **1690527** 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	940		1000		94.2	15	316			

Sample ID **LCS-38499**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **38499**	RunNo: **51763**
Prep Date: **6/5/2018**	Analysis Date: **6/6/2018**	SeqNo: **1690528** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	30	5.0	25.00	0	118	75.9	131			
Surr: BFB	1100		1000		112	15	316			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1806142**

26-Jun-18

Client: Williams Field Services

Project: DeHY 1 Sim Mesa Glycol Spill

Sample ID **MB-38499**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **38499**	RunNo: **51763**
Prep Date: **6/5/2018**	Analysis Date: **6/6/2018**	SeqNo: **1690565** 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	1.1		1.000		106	80	120			

Sample ID **LCS-38499**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **38499**	RunNo: **51763**
Prep Date: **6/5/2018**	Analysis Date: **6/6/2018**	SeqNo: **1690566** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.0	77.3	128			
Toluene	0.93	0.050	1.000	0	92.6	79.2	125			
Ethylbenzene	0.93	0.050	1.000	0	92.5	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	94.8	81.6	129			
Surr: 4-Bromofluorobenzene	1.1		1.000		110	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1806142 RcptNo: 1

Received By: Anne Thorne 6/5/2018 7:00:00 AM Anne Thorne
Completed By: Isaiah Ortiz 6/5/2018 9:56:01 AM I Ortiz
Reviewed By: ENM 6/5/18
L: JB 06/05/18

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to 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 container(s)? Yes ☑ No ☐
6. Sufficient sample volume for 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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)
Adjusted? 06/05/18
Checked by: JB

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 ☐ In Person
Regarding: _____
Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			

Chain-of-Custody Record

Client: WFS

Mailing Address: 1755 ARROYO DR
Bloomfield NM 87413

Phone #: 505-632-

email or Fax#: Kijun.Hong@williams.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☑ Standard ☐ Rush _____

Project Name: DeHY #1
Sim Mesa G14 Col Spill

Project #:

Project Manager: Kijun Hong

Sampler: Morgan Killion

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.6

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1806143	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Sludge				Air Bubbles (Y or N)
6/4/18	0900	Soil	Sims Mesa comp. DeHY #1	1-402	Cool	-001	X		X									X				

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
6/4/18	1700	Morgan Killion	Christy Walls	6/4/18	1700
6/4/18	1837	Christy Walls		06/05/18	0701

Remarks:

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.

Ranking Score Determination
Site Name: **Sims Mesa Compressor Station**
Legal Description: **Unit A, Section 22, T30N, R7W**
GPS Coordinates: **36.805198, -107.549568**

Ranking Score based on NMOCD Guidelines for Remediation of Leaks, Spills, and Releases dated August 13, 1993.

Depth to Ground *- The operator should determine the depth to ground water at each site. The depth to ground water is defined as the vertical distance from the lowermost contaminants to the seasonal high water elevation of the ground water. If the exact depth to ground water is unknown, the ground water depth can be estimated using either local water well information, published regional ground water information, data on file with the New Mexico State Engineer Office or the vertical distance from adjacent ground water or surface water.*

Notes: **The nearest data for depth to ground water is from a location 4,953.3ft to the NW at an elevation of 6,258ft and a depth to ground water of 250ft. Given that the release location is at 6,276ft of elevation, it is assumed the depth to ground water at the release location is 268ft.**

Depth to Groundwater	<50 feet	50 – 99 feet	>100 feet
Ranking Score (circle one)	20	10	0

Wellhead Protection Area *- The operator should determine the horizontal distance from all water sources including private and domestic water sources. Water sources are defined as wells, springs or other sources of fresh water extraction. Private and domestic water sources are those water sources used by less than five households for domestic or stock purposes.*

Notes: **There are no water sources within 1000ft of the release location.**

Wellhead Protection Area	<1000 from a water source; or <200 feet from a private domestic water source	
Ranking Score (circle one)	Yes → 20	No → 0

Distance To Nearest Surface Water Body *- The operator should determine the horizontal distance to all downgradient surface water bodies. Surface water bodies are defined as perennial rivers, streams, creeks, irrigation canals and ditches, lakes, ponds and playas.*

Notes: **Nearest surface water is an ephemeral stream 657.5 ft to the west.**

Distance to Surface Water Body	<200 horizontal feet	200 – 1,000 horizontal feet	>1,000 horizontal feet
Ranking Score (circle one)	20	10	0

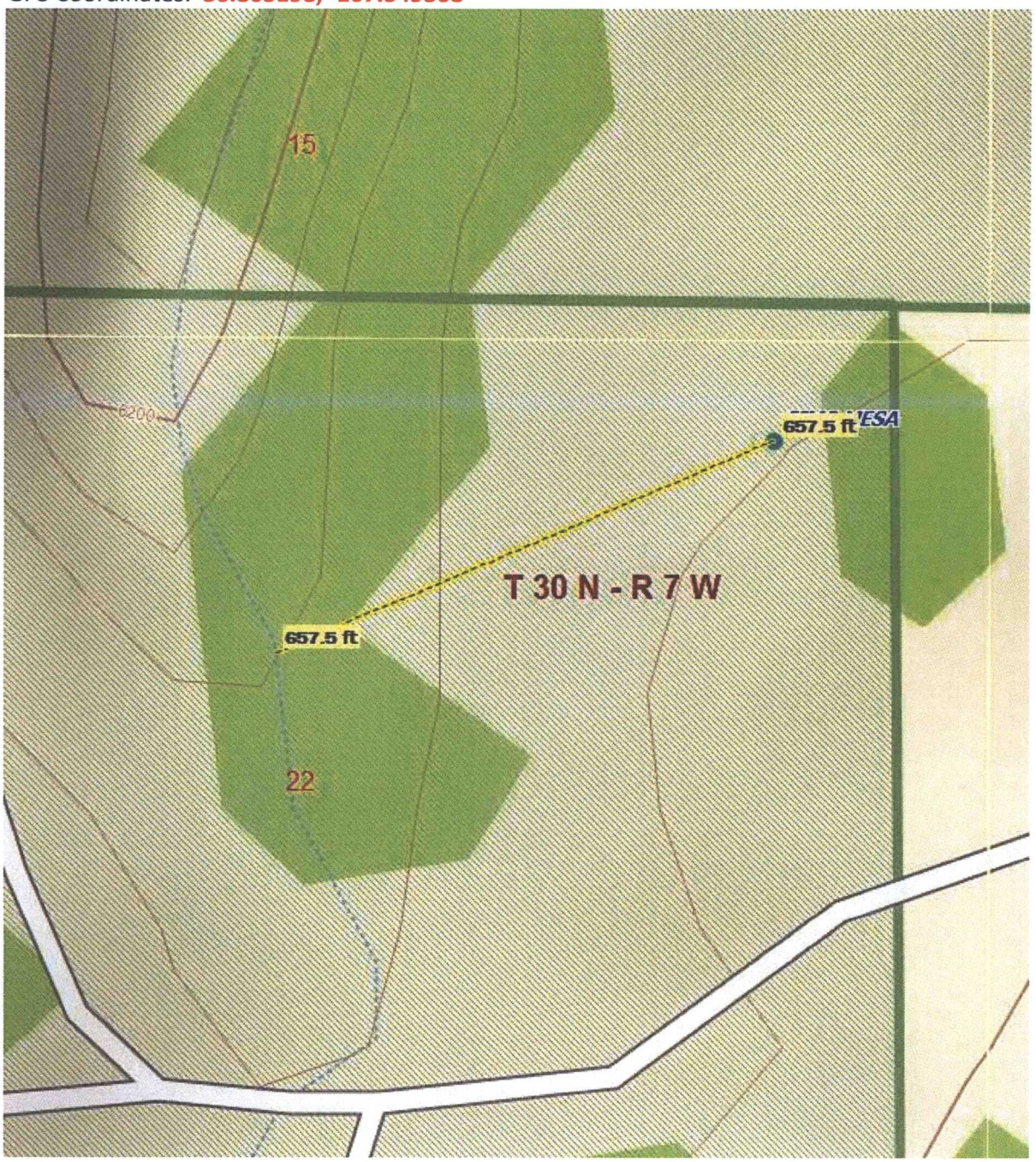
Remediation Action Levels

Ranking Score (Circle One)	**>19**	**10 - 19**	**0 - 9**
Benzene		10 mg/kg	
BTEX (total)		50 mg/kg	
TPH (GRO and DRO)	100 mg/kg	1,000 mg/kg	5,000 mg/kg

Ranking Completed by: **Kijun Hong**
Date: **7/6/2018**

Sources:
GPS Conversion Tool
New Mexico Water Rights Reporting System – Water Column/Average Depth to Water Report
New Mexico Oil and Gas Map

Ranking Score Determination
Site Name: **Sims Mesa Compressor Station**
Legal Description: **Unit A, Section 22, T30N, R7W**
GPS Coordinates: **36.805198, -107.549568**



New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
SJ 02698		SJ	RA		1	3	15	30N	07W	271173	4076962*	1531	402	255	147
SJ 03640		SJ	RA	1	1	3	15	30N	07W	271072	4077061*	1666	433	241	192
SJ 02366		SJ	RA		1	3	15	30N	07W	271062	4077047	1669	345	225	120
SJ 03946 POD1		SJ	RA	4	2	4	15	30N	07W	270941	4076902	1721	455	285	170
SJ 03006		SJ	RA	3	3	1	24	30N	07W	274255	4075564*	1853	100		
SJ 03082		SJ	RA	1	1	3	24	30N	07W	274244	4075362*	1932	98	61	37
SJ 03485		SJ	RA	1	1	3	24	30N	07W	274244	4075362*	1932	126	60	66
SJ 02818		SJ	RA	2	1	3	24	30N	07W	274444	4075362*	2109	86	42	44
SJ 03773 POD1		SJ	RA	2	1	3	24	30N	07W	274444	4075362*	2109	120	70	50
SJ 04202 POD1		SJ	RA	2	1	3	24	30N	07W	274488	4075418	2124	140	72	68
SJ 03075		SJ	RA	1	2	1	25	30N	07W	274626	4074548*	2712	165	78	87
SJ 03053		SJ	RA	4	4	3	24	30N	07W	274836	4074750*	2757	200		
SJ 03774 POD1		SJ	RA	3	3	1	25	30N	07W	274214	4073956*	2869	300	220	80
SJ 02983		SJ	RA	3	4	1	25	30N	07W	274616	4073946*	3127	262	40	222
SJ 03385		SJ	RA	4	4	4	17	30N	07W	269251	4076513*	3307	520	460	60
CR 04696	R	CR								275861	4076163	3311	80	26	54
SJ 00837		SJ	RA		4	4	17	30N	07W	269152	4076614*	3414	400		
SJ 00035		SJ	RA	2	2	4	33	30N	07W	270745	4072250*	4430	547	467	80
SJ 03301		SJ	SJ	4	4	4	34	30N	07W	272344	4071603*	4696	21	10	11

Average Depth to Water: **163 feet**
Minimum Depth: **10 feet**
Maximum Depth: **467 feet**

Record Count: 19

UTMNAD83 Radius Search (in meters):

Easting (X): 272551.8 **Northing (Y):** 4076295.2 **Radius:** 5000

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Twn	Rng	(NAD83 UTM in meters) X	Y
	SJ 02698	1	3		15	30N	07W	271173	4076962*

Driller License:	1374	**Driller Company:**	GLOVER, PAUL A		
Driller Name:	GLOVER, PAUL A.				
Drill Start Date:	05/02/1996	**Drill Finish Date:**	05/18/1996	**Plug Date:**	
Log File Date:	05/31/1996	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	10 GPM
Casing Size:	5.00	**Depth Well:**	402 feet	**Depth Water:**	255 feet

Water Bearing Stratifications:	Top	Bottom	Description
	250	260	Other/Unknown
	385	402	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	365	384

***UTM location was derived from PLSS - see Help**

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

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

NMOCD
MAY 29 2018
DISTRICT III

Form C-141
Revised August 8, 2011
Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **Sims Mesa Compressor Station**	Facility Type: **Glycol Dehydration Unit**

Surface Owner: **BLM**	Mineral Owner	BLM Project No. **NMNM81378**

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	**22**	**30N**	**7W**					**Rio Arriba**

Latitude 36.805198 **Longitude** -107.549568

NATURE OF RELEASE

Type of Release: **Natural Gas and Glycol**	Volume of Release: **65.7 MCF Natural Gas** **10 gallons of glycol**	Volume Recovered: **0 MCF Natural Gas** **Repair/clean up in progress**
Source of Release: **Nipple on the dehy glycol pump broke.**	Date and Hour of Occurrence: **5/14/2018 @ 4:45 PM**	Date and Hour of Discovery: **5/14/2018 @ 4:45 PM**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **NA**	
By Whom? **NA**	Date and Hour: **NA**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*
The nipple on the glycol recirculation pump on the dehydration unit broke releasing natural gas to the atmosphere and a glycol mist impacting surrounding area. Upon discovery, the release was isolated and the dehy unit was bypassed and put out of service.

Describe Area Affected and Cleanup Action Taken.*
Approximately 15' X 20' area impacted by glycol mist. Repair/clean up is currently in progress.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 7/5/18 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: Attached ☐
Date: **5/23/2018** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

NVF1818641787
Schedule Site/Sampling 24 hour Prior to sampling.
Sample TPH, 1

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **AXI Apache J9 Pipeline**	Facility Type: **Pipeline**

Surface Owner: **Jicarilla Tribe**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	**6**	**25N**	**6W**					**Rio Arriba**

Latitude 36.423886 **Longitude** -107.396082

NATURE OF RELEASE

Type of Release: **Pipeline leak**	Volume of Release: **1.79 MCF Natural Gas** **30 yards of impacted soil removed.**	Volume Recovered: **0 MCF Natural Gas** **30 yards of impacted soil removed.**
Source of Release: **Failed pipeline**	Date and Hour of Occurrence: **6/28/2018 @ 10:30AM**	Date and Hour of Discovery: **6/28/2018 @ 10:30AM**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **Courtesy Notification email sent 6/29/2018**	
By Whom? **NA**	Date and Hour: **NA**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*
Failure in the pipeline. Upon discovery, the section of pipe was isolated and blown down.

Describe Area Affected and Cleanup Action Taken.*
30 yards of impacted soil were removed and confirmation samples collected and analyzed. Please see attachments for further details.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 8/16/18 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: — Attached ☐
Date: **8/9/2018** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

nvf1819842440

NMOCD

AUG 16 2018

DISTRICT III

Remediation Excavation and Sampling Form

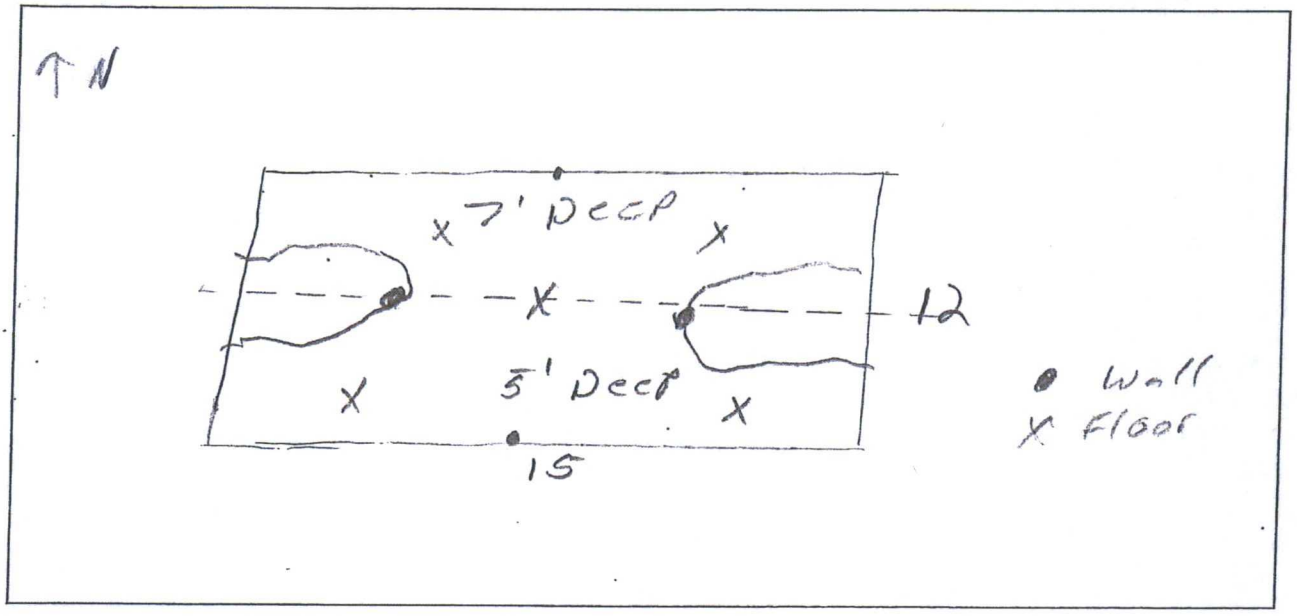
Site Name AXI Apache J-9

Excavation Dimensions (feet)

15' Length 12 Width 7 Depth

Excavation Diagram and Sample Locations

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



Sample Information

OCD Witness Sampling Yes or (No) Jicarilla EPO

Agency(s) Representative(s) Hobson Sandoval

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
AXI Apache J-9 sidewalls	07-12-18	composite	side walls	0.00ppm
AXI Apache J-9 Floor	07-12-18	composite	Floor	0.00ppm

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

July 17, 2018

Kijun Hong
Williams Field Services
188 Co. Rd 4900
Bloomfield, NM 87413
TEL:
FAX

RE: AXI Apache J-9 OrderNo.: 1807686

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 2 sample(s) on 7/13/2018 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1807686**
Date Reported: **7/17/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: AXI Apache J-9
Lab ID: 1807686-001 **Matrix:** SOIL

Client Sample ID: AXI Apache J-9 Sidewalls
Collection Date: 7/12/2018 12:10:00 PM
Received Date: 7/13/2018 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	590	30		mg/Kg	20	7/13/2018 1:35:13 PM	39196
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	7/13/2018 10:14:46 AM	39192
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2018 10:14:46 AM	39192
Surr: DNOP	97.0	70-130		%Rec	1	7/13/2018 10:14:46 AM	39192
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.8		mg/Kg	1	7/13/2018 9:37:56 AM	39176
Surr: BFB	90.4	15-316		%Rec	1	7/13/2018 9:37:56 AM	39176
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.019		mg/Kg	1	7/13/2018 9:37:56 AM	39176
Toluene	ND	0.038		mg/Kg	1	7/13/2018 9:37:56 AM	39176
Ethylbenzene	ND	0.038		mg/Kg	1	7/13/2018 9:37:56 AM	39176
Xylenes, Total	ND	0.076		mg/Kg	1	7/13/2018 9:37:56 AM	39176
Surr: 4-Bromofluorobenzene	98.8	80-120		%Rec	1	7/13/2018 9:37:56 AM	39176

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: AXI Apache J-9
Lab ID: 1807686-002 **Matrix:** SOIL

Client Sample ID: AXI Apache J-9 Floor
Collection Date: 7/12/2018 12:15:00 PM
Received Date: 7/13/2018 8:05:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	970	30		mg/Kg	20	7/13/2018 1:47:38 PM	39196
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	10		mg/Kg	1	7/13/2018 10:36:49 AM	39192
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	7/13/2018 10:36:49 AM	39192
Surr: DNOP	101	70-130		%Rec	1	7/13/2018 10:36:49 AM	39192
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.4		mg/Kg	1	7/13/2018 10:01:18 AM	39176
Surr: BFB	88.6	15-316		%Rec	1	7/13/2018 10:01:18 AM	39176
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.017		mg/Kg	1	7/13/2018 10:01:18 AM	39176
Toluene	ND	0.034		mg/Kg	1	7/13/2018 10:01:18 AM	39176
Ethylbenzene	ND	0.034		mg/Kg	1	7/13/2018 10:01:18 AM	39176
Xylenes, Total	ND	0.068		mg/Kg	1	7/13/2018 10:01:18 AM	39176
Surr: 4-Bromofluorobenzene	98.5	80-120		%Rec	1	7/13/2018 10:01:18 AM	39176

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807686**

17-Jul-18

Client: Williams Field Services

Project: AXI Apache J-9

Sample ID **MB-39196**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **PBS**	Batch ID: **39196**	RunNo: **52688**							
Prep Date: **7/13/2018**	Analysis Date: **7/13/2018**	SeqNo: **1729903**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-39196**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**							
Client ID: **LCSS**	Batch ID: **39196**	RunNo: **52688**							
Prep Date: **7/13/2018**	Analysis Date: **7/13/2018**	SeqNo: **1729904**	Units: **mg/Kg**						
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	95.2	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807686**

17-Jul-18

Client: Williams Field Services

Project: AXI Apache J-9

Sample ID **MB-39192**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **39192**	RunNo: **52681**
Prep Date: **7/13/2018**	Analysis Date: **7/13/2018**	SeqNo: **1729526** 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	9.5		10.00		94.9	70	130			

Sample ID **LCS-39192**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **39192**	RunNo: **52681**
Prep Date: **7/13/2018**	Analysis Date: **7/13/2018**	SeqNo: **1729527** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	46	10	50.00	0	92.3	70	130			
Surr: DNOP	4.6		5.000		91.5	70	130			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807686**

17-Jul-18

Client: Williams Field Services

Project: AXI Apache J-9

Sample ID **MB-39176**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **39176**	RunNo: **52672**
Prep Date: **7/12/2018**	Analysis Date: **7/13/2018**	SeqNo: **1730183** 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	860		1000		85.9	15	316			

Sample ID **LCS-39176**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **39176**	RunNo: **52672**
Prep Date: **7/12/2018**	Analysis Date: **7/13/2018**	SeqNo: **1730184** 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	115	75.9	131			
Surr: BFB	1000		1000		102	15	316			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1807686**

17-Jul-18

Client: Williams Field Services

Project: AXI Apache J-9

Sample ID **MB-39176**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **39176**	RunNo: **52672**
Prep Date: **7/12/2018**	Analysis Date: **7/13/2018**	SeqNo: **1730189** 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		99.5	80	120			

Sample ID **LCS-39176**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **39176**	RunNo: **52672**
Prep Date: **7/12/2018**	Analysis Date: **7/13/2018**	SeqNo: **1730190** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.96	0.025	1.000	0	96.1	77.3	128			
Toluene	0.99	0.050	1.000	0	99.2	79.2	125			
Ethylbenzene	0.96	0.050	1.000	0	96.3	80.7	127			
Xylenes, Total	3.0	0.10	3.000	0	99.7	81.6	129			
Surr: 4-Bromofluorobenzene	1.0		1.000		105	80	120			

Sample ID **1807686-001AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **AXI Apache J-9 Side**	Batch ID: **39176**	RunNo: **52672**
Prep Date:	Analysis Date: **7/13/2018**	SeqNo: **1730193** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.69	0.019	0.7599	0	91.4	68.5	133			
Toluene	0.71	0.038	0.7599	0	93.5	75	130			
Ethylbenzene	0.70	0.038	0.7599	0	92.0	79.4	128			
Xylenes, Total	2.1	0.076	2.280	0	94.3	77.3	131			
Surr: 4-Bromofluorobenzene	0.76		0.7599		100	80	120			

Sample ID **1807686-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **AXI Apache J-9 Side**	Batch ID: **39176**	RunNo: **52672**
Prep Date:	Analysis Date: **7/13/2018**	SeqNo: **1730194** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.68	0.019	0.7599	0	90.0	68.5	133	1.46	20	
Toluene	0.70	0.038	0.7599	0	92.4	75	130	1.27	20	
Ethylbenzene	0.69	0.038	0.7599	0	90.5	79.4	128	1.60	20	
Xylenes, Total	2.1	0.076	2.280	0	93.3	77.3	131	1.03	20	
Surr: 4-Bromofluorobenzene	0.81		0.7599		107	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1807686 RcptNo: 1

Received By: Anne Thorne 7/13/2018 8:05:00 AM Anne Thorne

Completed By: Anne Thorne 7/13/2018 8:11:30 AM Anne Thorne

Reviewed By: ENM 7/13/18

Labeled by: AT 07/13/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to 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 container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for 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. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

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 ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.0	Good	Yes			

Chain-of-Custody Record

Client: WFS

Mailing Address: 1755 ARROYA DR.
Bloom Field NM 87413

Phone #: 505-632-

email or Fax#: Kijun.Hong@williams.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush 7-13-18

Project Name:
AXI Apache J-9

Project #:

Project Manager:
KIJUN HONG

Sampler: Morgan Killion
On Ice: ☒ Yes ☐ No
Sample Temperature: 3.6 °C +0.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and # (~~7/13/18~~ Modified)	Preservative Type	HEAL No. 1807664	Analysis Request: BTEX + ~~MTBE~~ + ~~TMB's~~ (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
7/12/18	1210	Soil	AXI Apache J-9 Sidewalls	1-402	Cool	-001	X		X									X				
7/12/18	1215	Soil	AXI Apache J-9 Floor	1-402	1	-002	X		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
7/12/18	1530	Morg Killion	Chris Ward	7/12/18	1530
7/12/18	1801	Austin Wells		7/13/18	0805

Remarks:

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.

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

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

Form C-141
Revised August 8, 2011

Submit 1 Copy to appropriate District Office in accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company: **Williams Four Corners LLC**	Contact: **Kijun Hong**
Address: **1755 Arroyo Dr., Farmington, NM 87413**	Telephone No.: **(505) 632-4475**
Facility Name: **AXI Apache J9 Pipeline**	Facility Type: **Pipeline**

Surface Owner: **Jicarilla Tribe**	Mineral Owner	BLM Project No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
P	**6**	**25N**	**6W**					**Rio Arriba**

Latitude 36.423886 Longitude -107.396082

NATURE OF RELEASE

Type of Release: **Pipeline leak**	Volume of Release: **1.79 MCF Natural Gas** **30 yards of impacted soil removed so far**	Volume Recovered: **0 MCF Natural Gas** **30 yards of impacted soil removed so far**
Source of Release: **Failed pipeline**	Date and Hour of Occurrence: **6/28/2018 @ 10:30AM**	Date and Hour of Discovery: **6/28/2018 @ 10:30AM**
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom? **Courtesy Notification email sent 6/29/2018**	
By Whom? **NA**	Date and Hour: **NA**	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse. **NA**	

If a Watercourse was Impacted, Describe Fully.* **NA**

Describe Cause of Problem and Remedial Action Taken.*
Failure in the pipeline. Upon discovery, the section of pipe was isolated and blown down.

Describe Area Affected and Cleanup Action Taken.*
Remediation currently in progress. 30 yards of impacted soil was removed and confirmation samples have been pulled.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature:	OIL CONSERVATION DIVISION Approved by Environmental Specialist:
Printed Name: **Kijun Hong**	
Title: **Environmental Specialist**	Approval Date: 7/17/18 Expiration Date:
E-mail Address: **kijun.hong@williams.com**	Conditions of Approval: Attached ☐
Date: **7/13/2018** Phone: **(505) 632-4475**	

* Attach Additional Sheets If Necessary

Simple Area 8021/8015
Delineate Area
Vertical / Horizontal
NMF1819842440

NMOCD
JUL 13 2018
DISTRICT III

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	3RP013
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party **Williams Four Corners LLC**	OGRID
Contact Name **Kijun Hong**	Contact Telephone **(505) 632-4475**
Contact email **kijun.hong@williams.com**	Incident # *(assigned by OCD)* NCS 1825436405
Contact mailing address **1755 Arroyo Dr., Farmington, NM 87413**	

Location of Release Source

Latitude **36.615481** Longitude **-107.915998**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **Snick Com 32-2A**	Site Type **Pipeline on producer location**
Date Release Discovered **8/8/2018**	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
J	**32**	**28N**	**10W**	**San Juan**

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) **Unknown at this time**	Volume Recovered (bbls) **Remediation in progress**
	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) **503**	Volume Recovered (Mcf) **0**
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Failure of pipeline due to corrosion.

NMOCD
SEP 07 2018
DISTRICT III

6

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **Unauthorized release of gases exceeding 500 MCF**

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Upon discovery, courtesy notification was given to Cory Smith and Vanessa Fields via email by Kijun Hong on 8/9/2018. When an initial gas loss calculation was determined, an update was given by email to include Jim Griswold on 8/29/2018.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.

☒ The impacted area has been secured to protect human health and the environment.

☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.

☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: **Kijun Hong** Title: **Environmental Specialist**

Signature: Date: **8/31/2018**

email: **kijun.hong@williams.com** Telephone: **505-632-4475**

OCD Only

Received by: Date: 9/11/18

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: _____ Date: _____

Printed Name: _____ Title: _____

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	1014
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Williams Four Corners LLC	OGRID	
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	kijun.hong@williams.com	Incident # *(assigned by OCD)*	NCS 1828939224
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413		

Location of Release Source

Latitude 36.504125 Longitude -107.303735
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lateral D-2	Site Type Pipeline
Date Release Discovered 8/30/2018	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
H	12	22N	5W	Rio Arriba

NMOCD
SEP 20 2018
DISTRICT III

Surface Owner: ☐ State ☐ Federal ☒ Tribal ☐ Private (*Name:*)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 25 BBLs based on yardage removed.	Volume Recovered (bbls) 60 Yards of impacted soil removed
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) 389.9	Volume Recovered (Mcf) 0
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Pipeline failure due to corrosion.

(2)

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **Unauthorized release of 25 bbls or more.**

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?
Immediate courtesy notification was given by email to Cory Smith and Vanessa Fields of the NMOCD by Kijun Hong (Williams) the same day the release was discovered. Hobson of the Jicarilla Tribe was notified by telephone the same day as well by Chris Lucero (Williams). Jim Griswold (OCD) will also be included on all correspondences moving forward.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

NMOCD
SEP 20 2018
DISTRICT III

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 9/13/2018

email: kijun.hong@williams.com Telephone: 505-436-8457

OCD Only

Received by: Date: 10/16/18

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	**Harvest Midstream**	OGRID	
Contact Name	**Kijun Hong**	Contact Telephone	**(505) 632-4475**
Contact email	**kijun.hong@williams.com**	Incident # *(assigned by OCD)*	
Contact mailing address	**1755 Arroyo Dr., Farmington, NM 87413**		

Location of Release Source

Latitude **36.942778** Longitude **-107.438605**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **Rosa 89D**	Site Type **Pipeline**
Date Release Discovered **9/17/2018**	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	**34**	**32N**	**6W**	**Rio Arriba**

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) **5 BBLs**	Volume Recovered (bbls) **1.5 BBLs**
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) **0.33 MCF**	Volume Recovered (Mcf) **0 MCF**
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Pipeline failure due to corrosion.

(2)

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 10/2/2018

email: kijun.hong@williams.com Telephone: 505-436-8457

OCD Only

Received by: Date: 10/16/18

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
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State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	**NCS1828939730**
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	**Harvest Four Corners, LLC**	OGRID	**37388**
Contact Name	**Kijun Hong**	Contact Telephone	**(505) 632-4475**
Contact email	**khong@harvestmidstream.com**	Incident # *(assigned by OCD)*	**NCS1828939730**
Contact mailing address	**1755 Arroyo Dr., Farmington, NM 87413**		

Location of Release Source

Latitude **36.942778** Longitude **-107.438605**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **Rosa 89D**	Site Type **Pipeline**
Date Release Discovered **9/17/2018**	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	**34**	**32N**	**6W**	**Rio Arriba**

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) **5 BBLs**	Volume Recovered (bbls) **1.5 BBLs**
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) **0.33 MCF**	Volume Recovered (Mcf) **0 MCF**
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Pipeline failure due to corrosion.

NMOCD
DEC 21 2018
DISTRICT III

25

State of New Mexico
Oil Conservation Division

Incident ID	**NCS1828939730**
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

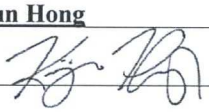
☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: **Kijun Hong** Title: **Environmental Specialist**

Signature:  Date: **10/2/2018**

email: **khong@harvestmidstream.com** Telephone: **505-632-4475**

OCD Only

Received by: _____ Date: _____

HRL
COMPLIANCE
SOLUTIONS

65 Mercado Street, Suite 109 • Durango, CO 81301
PHONE: 970.259.0926 • www.hrlcomp.com

On behalf of Harvest Four Corners LLC, HRL Compliance Solutions, Inc (HRL) is pleased to submit the attached Site Characterization and Closure Report for the Rosa 89D pipeline spill that occurred on September 17, 2018 (Incident #: NCSI1828939730).

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	**NCS1828939730**
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☒ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

State of New Mexico
Oil Conservation Division

Incident ID	NCS1828939730
District RP	
Facility ID	
Application ID	

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: **Kijun Hong** Title: **Environmental Specialist**

Signature: Date: 12/14/2018

email: **khong@harvestmidstream.com** Telephone: **505-632-4475**

OCD Only

Received by: Date:

Site Characterization
Rosa 89D
NMOCD Incident #: NCS1828939730

The release site is located approximately 5.97 miles south of Arboles, CO, with an elevation of 6,672ft above sea level. The nearest well with water bearing stratification data available on the New Mexico State Engineer's Office (NMOSE) online water well database was SJ 03420, located approximately 3.37 miles to the northwest with an elevation of 6,457ft and a depth to ground water of 55ft. Given that the release location is 215ft higher in elevation than SJ 03420, it is assumed that the depth to ground water at the release location is >100ft.

There are no features of concern identified within proximity of the site. There is no flowing watercourse or significant watercourse within 300 feet of this location. There is no lakebed, sinkhole, or playa lake within 200 feet for this location. This location is not within 300 feet of an occupied permanent residence, school, hospital, institution, or church. This location is not within 500 feet of a spring or domestic freshwater well. This facility is not within incorporated municipal boundaries or within a defined municipal freshwater well field. Refer Attachments D & E for illustration.

Table 2: Remediation Standards

Closure Criteria for Soils Impacted by a Release		
Depth to Groundwater	**Constituent**	**Limit**
> 100 feet	Chloride	20,000 mg/kg
	TPH (GRO+DRO+MRO)	2,500 mg/kg
	GRO+DRO	1,000 mg/kg
	BTEX	50 mg/kg
	Benzene	10 mg/kg

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
SJ 03055		SJPR	SJ	2	2	1	20	32N	06W	278939	4094657*	5145	290	100	190
SJ 03420		SJPR	SJ		2	4	19	32N	06W	277997	4093753*	5428	415	60	355
SJ 02711		SJ	SJ	3	1	3	11	32N	06W	283293	4096778*	5493	200	120	80
SJ 01949		SJPR	SJ	3	2	2	10	32N	06W	282909	4097594*	6291	300	260	40
SJ 01957		SJPR	SJ	3	2	2	10	32N	06W	282909	4097594*	6291	280	280	0
SJ 03135		SJPR	SJ	1	1	3	09	32N	06W	280044	4097112*	6447	200		
SJ 03685 POD1		SJ	SJ	4	2	1	07	31N	06W	276814	4088772*	6536	460	310	150
SJ 04225 POD1		SJ	RA		4	3	23	31N	06W	282900	4084335	6968	320	60	260
SJ 03302		SJPR	SJ	4	3	1	08	32N	06W	278635	4097294*	7320	250		
SJ 03775 POD1		SJPR	SJ	3	3	1	08	32N	06W	278389	4097289	7460	260	200	60
SJ 03880 POD1		SJPR	SJ	4	4	1	07	32N	06W	277366	4097301	8121	410	180	230
SJ 03649		SJ	SJ		4	1	02	31N	07W	273538	4090167*	9372	600	300	300

Average Depth to Water: **187 feet**

Minimum Depth: **60 feet**

Maximum Depth: **310 feet**

Record Count: 12

UTMNAD83 Radius Search (in meters):

Easting (X): 282841.12 **Northing (Y):** 4091303 **Radius:** 10000

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Point of Diversion Summary

Well Tag	POD Number	(quarters are 1=NW 2=NE 3=SW 4=SE) (quarters are smallest to largest) Q64	Q16	Q4	Sec	Tws	Rng	(NAD83 UTM in meters) X	Y
	SJ 03420	2	4		19	32N	06W	277997	4093753*

Driller License: 717 **Driller Company:** WESTERN WATER WELLS

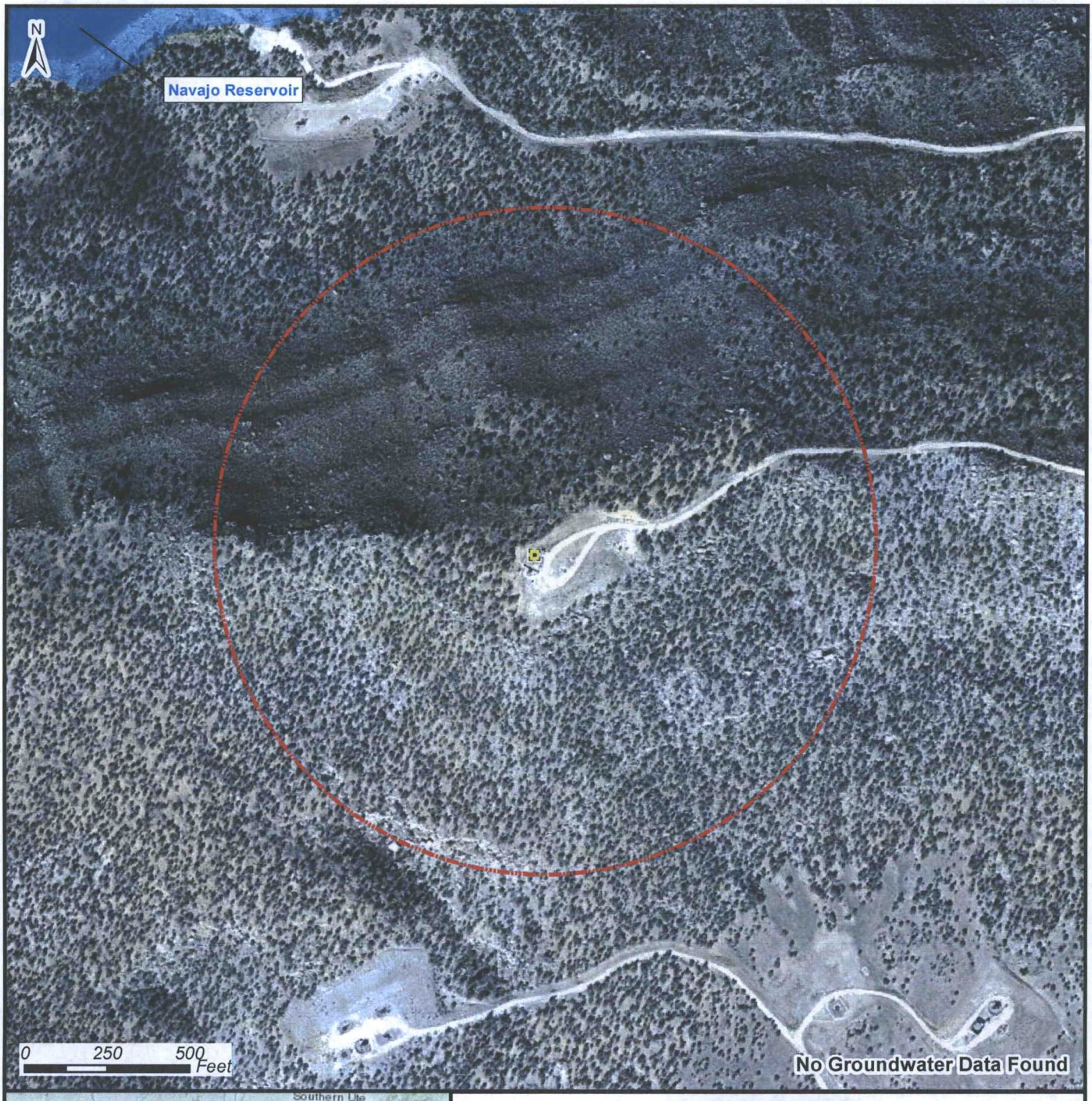
Driller Name: HOOD, TERRY

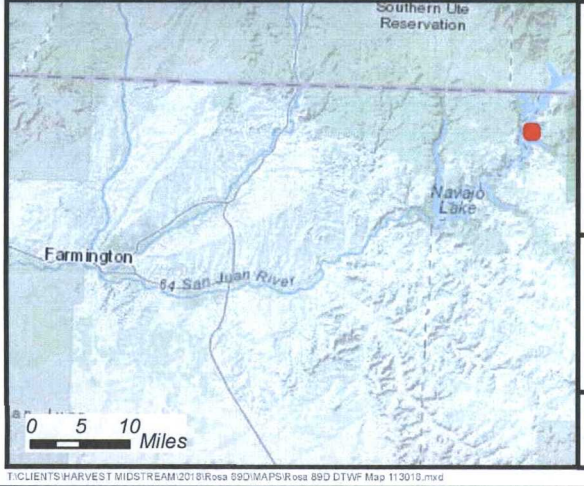
Drill Start Date:	03/10/2006	**Drill Finish Date:**	03/18/2006	**Plug Date:**	
Log File Date:	03/22/2006	**PCW Rcv Date:**		**Source:**	Shallow
Pump Type:		**Pipe Discharge Size:**		**Estimated Yield:**	1 GPM
Casing Size:	6.00	**Depth Well:**	415 feet	**Depth Water:**	60 feet

Water Bearing Stratifications:	Top	Bottom	Description
	55	65	Sandstone/Gravel/Conglomerate
	325	365	Sandstone/Gravel/Conglomerate

Casing Perforations:	Top	Bottom
	320	400

***UTM location was derived from PLSS - see Help**





HARVEST MIDSTREAM

Distance to Water Features Map

Rosa 89D

36.942778 -107.438605

Section 34, Township 32 North, Range 6 West

Mapped Features

1000-ft Buffer

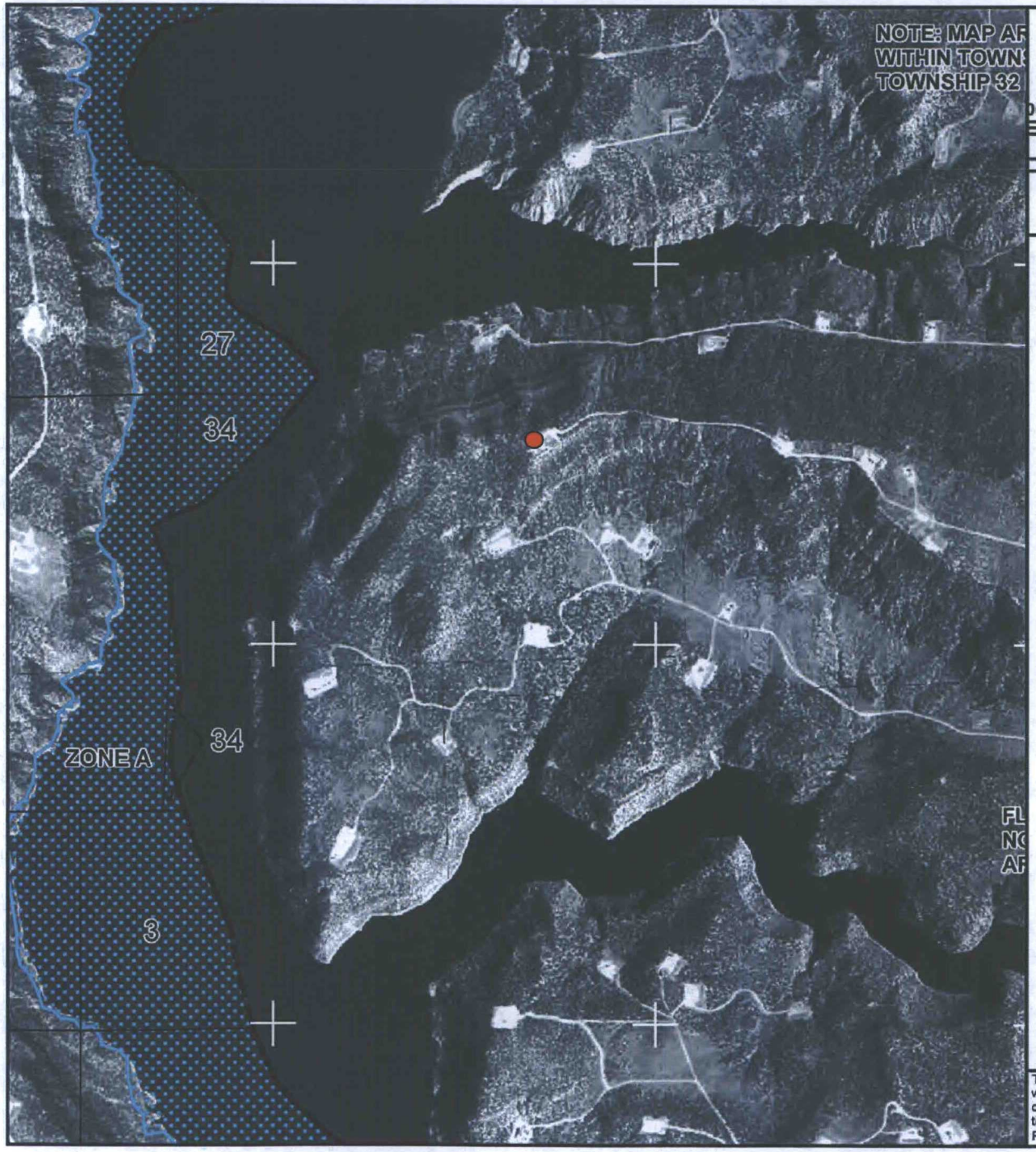
Hydrography

Lake

HRL COMPLIANCE SOLUTIONS

Author:	A. Asay
Revision:	0
Date:	11/30/2018

T:\CLIENTS\HARVEST MIDSTREAM\2018\Rosa 89D\MAPS\Rosa 89D DTWF Map 113018.mxd



MAP SCALE 1" = 2000'

00 0 2000 4000 FEET

0 600 1200 METERS

NFIP

NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0500F

FIRM

FLOOD INSURANCE RATE MAP

SAN JUAN COUNTY, NEW MEXICO AND INCORPORATED AREAS

PANEL 500 OF 2750

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
SAN JUAN COUNTY	350064	0500	F

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
35045C0500F

EFFECTIVE DATE
AUGUST 5, 2010

Federal Emergency Management Agency

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NCS1828939730
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Kijun Hong Title: Environmental Specialist

Signature: Date: 12/14/2018

email: khong@harvestmidstream.com Telephone: 505-632-4475

OCD Only

Received by: OCD Date: 12/21/18

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date: 1/3/19

Printed Name: Cory Title: Environmental Spec.

Closure Report
Rosa 89D
NMOCD Incident #: NCS1828939730

Upon discovery, the pipeline was immediately isolated stopping the release. All free liquids were recovered by vac truck, which consisted of 1.5 bbls of produced water.

All impacted soils were excavated and disposed of in accordance with OCD requirements. Clean dirt was trucked in to back fill the excavation. Notification of sampling was given to the OCD, but a representative was not present to witness sample collection which was conducted on September 21, 2018. Composite samples from the excavation floor and sidewalls were collected and sent for analysis. Sample locations are depicted in Figure 1.

The samples were submitted to Hall Environmental Laboratories for analyses including chlorides by Method 300.0, volatile organics (BTEX) by Method 8021B, and MRO, DRO, and GRO by EPA Method 8015M. Results from sampling event indicated that the side walls and floor did not exceed NM OCD regulatory cleanup thresholds and no additional excavation & remediation was necessary. A summary of laboratory analytical results are included in Table 3 with the raw analytical laboratory data attached to this report.

Table 3: Confirmation Analytical Data

Harvest Midstream Rosa 89D	NMOCD Thresholds @ GW >100ft		Sample Locations	
			Hall Sample ID	
			1809E57-001	1809E57-002
			Floor	Side Wall
			9/21/2018	
DIESEL RANGE ORGANICS (DRO)	2500	1000	ND	ND
GASOLINE RANGE ORGANICS (GRO)			ND	ND
MOTOR OIL RANGE ORGANICS (MRO)		-	ND	ND
BENZENE	10		ND	ND
TOLUENE	50		ND	ND
ETHYLBENZENE			ND	ND
XYLENE TOTAL			ND	ND
CHLORIDE	20,000		370	370

All results presented in mg/kg

Figure 1: Sample Location Map

Remediation Excavation and Sampling Form

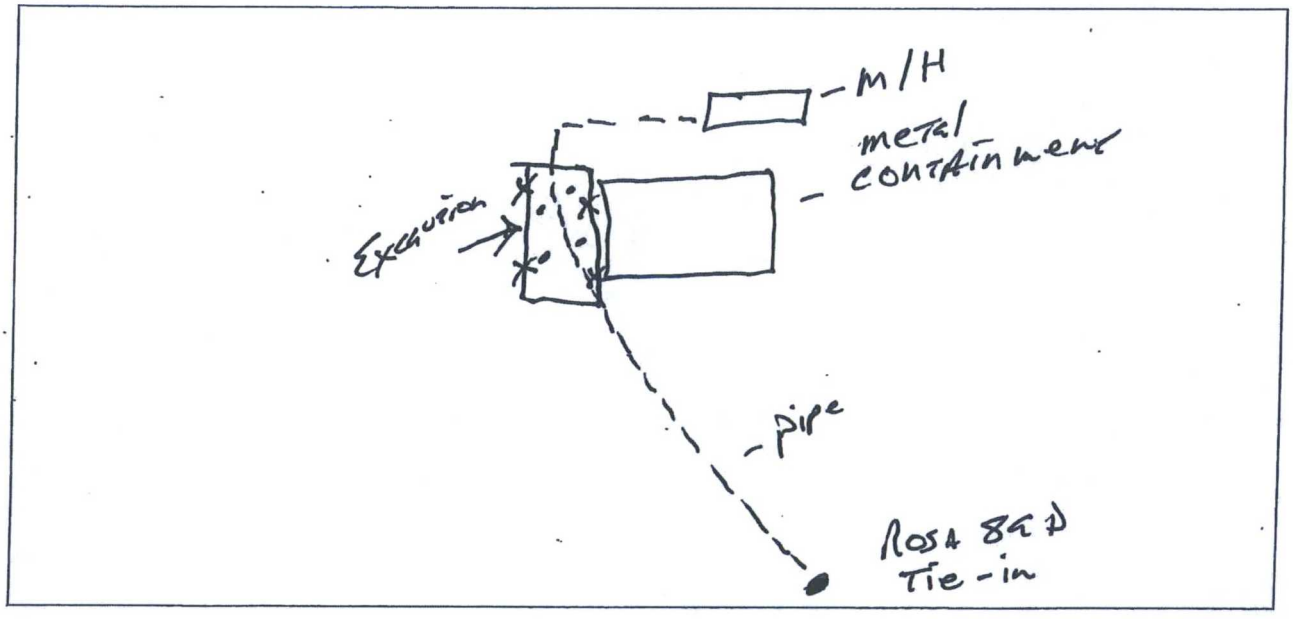
Site Name Rosa 89D

Excavation Dimensions (feet)

45' Length 6' Width 60" Depth

Excavation Diagram and Sample Locations

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



Sample Information • Floor x walls

OCD Witness Sampling Yes or (No)

Agency(s) Representative(s) _____

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
Ros-89D-F	9-21-18	comp.	Floor	
Ros-89D-W	9-21-18	comp.	Walls	

Figure 2: Final Excavation

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

October 04, 2018

Kijun Hong
Williams Field Services
1755 Arroyo Dr.,
Bloomfield, NM 87413
TEL: (505) 632-4442
FAX

RE: Rosa 89 D Line Leaks OrderNo.: 1809E57

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 4 sample(s) on 9/25/2018 for the analyses presented in the following report.

This report is a revised report and it replaces the original report issued October 03, 2018.

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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1809E57**
Date Reported: **10/4/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Rosa 89 D Line Leaks
Lab ID: 1809E57-001 **Matrix:** SOIL

Client Sample ID: ROS-89D-F
Collection Date: 9/21/2018 1:40:00 PM
Received Date: 9/25/2018 10:38:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	370	30		mg/Kg	20	9/28/2018 6:02:09 AM	40640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	9/28/2018 3:34:38 PM	40630
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/28/2018 3:34:38 PM	40630
Surr: DNOP	120	50.6-138		%Rec	1	9/28/2018 3:34:38 PM	40630
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	5.0		mg/Kg	1	9/27/2018 5:45:11 PM	40611
Surr: BFB	93.6	15-316		%Rec	1	9/27/2018 5:45:11 PM	40611
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.025		mg/Kg	1	9/27/2018 5:45:11 PM	40611
Toluene	ND	0.050		mg/Kg	1	9/27/2018 5:45:11 PM	40611
Ethylbenzene	ND	0.050		mg/Kg	1	9/27/2018 5:45:11 PM	40611
Xylenes, Total	ND	0.099		mg/Kg	1	9/27/2018 5:45:11 PM	40611
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	1	9/27/2018 5:45:11 PM	40611

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: Rosa 89 D Line Leaks
Lab ID: 1809E57-002 **Matrix:** SOIL

Client Sample ID: ROS-89D-W
Collection Date: 9/21/2018 2:00:00 PM
Received Date: 9/25/2018 10:38:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **smb**	
Chloride	370	30		mg/Kg	20	9/28/2018 6:14:34 AM	40640
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	9/28/2018 3:56:37 PM	40630
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	9/28/2018 3:56:37 PM	40630
Surr: DNOP	110	50.6-138		%Rec	1	9/28/2018 3:56:37 PM	40630
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	4.9		mg/Kg	1	9/27/2018 6:08:41 PM	40611
Surr: BFB	90.2	15-316		%Rec	1	9/27/2018 6:08:41 PM	40611
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.024		mg/Kg	1	9/27/2018 6:08:41 PM	40611
Toluene	ND	0.049		mg/Kg	1	9/27/2018 6:08:41 PM	40611
Ethylbenzene	ND	0.049		mg/Kg	1	9/27/2018 6:08:41 PM	40611
Xylenes, Total	ND	0.097		mg/Kg	1	9/27/2018 6:08:41 PM	40611
Surr: 4-Bromofluorobenzene	89.3	80-120		%Rec	1	9/27/2018 6:08:41 PM	40611

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809E57**

04-Oct-18

Client: Williams Field Services

Project: Rosa 89 D Line Leaks

Sample ID **MB-40640**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **40640**	RunNo: **54496**
Prep Date: **9/27/2018**	Analysis Date: **9/28/2018**	SeqNo: **1806702** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-40640**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **40640**	RunNo: **54496**
Prep Date: **9/27/2018**	Analysis Date: **9/28/2018**	SeqNo: **1806703** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.4	90	110			

Sample ID **MB-40653**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **40653**	RunNo: **54514**
Prep Date: **9/28/2018**	Analysis Date: **9/28/2018**	SeqNo: **1808195** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-40653**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **40653**	RunNo: **54514**
Prep Date: **9/28/2018**	Analysis Date: **9/28/2018**	SeqNo: **1808196** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	15	1.5	15.00	0	98.6	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809E57**

04-Oct-18

Client: Williams Field Services

Project: Rosa 89 D Line Leaks

Sample ID **LCS-40630**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **40630**	RunNo: **54513**
Prep Date: **9/27/2018**	Analysis Date: **9/28/2018**	SeqNo: **1807108** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	52	10	50.00	0	103	70	130			
Surr: DNOP	3.7		5.000		73.8	50.6	138			

Sample ID **MB-40630**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **40630**	RunNo: **54513**
Prep Date: **9/27/2018**	Analysis Date: **9/28/2018**	SeqNo: **1807109** 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	9.4		10.00		94.0	50.6	138			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809E57**

04-Oct-18

Client: Williams Field Services

Project: Rosa 89 D Line Leaks

Sample ID **MB-40611**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **40611**	RunNo: **54473**
Prep Date: **9/26/2018**	Analysis Date: **9/27/2018**	SeqNo: **1805684** 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	960		1000		95.6	15	316			

Sample ID **LCS-40611**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **40611**	RunNo: **54473**
Prep Date: **9/26/2018**	Analysis Date: **9/27/2018**	SeqNo: **1805685** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	26	5.0	25.00	0	104	75.9	131			
Surr: BFB	1100		1000		107	15	316			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809E57**

04-Oct-18

Client: Williams Field Services

Project: Rosa 89 D Line Leaks

Sample ID **MB-40611**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **40611**	RunNo: **54473**
Prep Date: **9/26/2018**	Analysis Date: **9/27/2018**	SeqNo: **1805711** 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	0.94		1.000		93.8	80	120			

Sample ID **LCS-40611**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **40611**	RunNo: **54473**
Prep Date: **9/26/2018**	Analysis Date: **9/27/2018**	SeqNo: **1805712** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.90	0.025	1.000	0	90.5	77.3	128			
Toluene	0.94	0.050	1.000	0	93.7	79.2	125			
Ethylbenzene	0.94	0.050	1.000	0	93.7	80.7	127			
Xylenes, Total	2.8	0.10	3.000	0	92.6	81.6	129			
Surr: 4-Bromofluorobenzene	0.96		1.000		96.3	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1809E57 RcptNo: 1

Received By: Anne Thorne 9/25/2018 10:38:00 AM Anne Thorne

Completed By: Anne Thorne 9/25/2018 12:01:40 PM Anne Thorne

Reviewed By: ENM 9/25/18

Labeled by: 09/25/18

Chain of Custody

1. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
2. How was the sample delivered? Courier

Log In

3. Was an attempt made to 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 container(s)? Yes ☑ No ☐
6. Sufficient sample volume for 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. VOA vials have zero headspace? Yes ☐ No ☐ No VOA Vials ☑
10. Were any sample containers received broken? Yes ☐ No ☑
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
12. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
13. Is it clear what analyses were requested? Yes ☑ No ☐
14. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

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 ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.8	Good	Yes			

Chain-of-Custody Record

Client: Williams Field Services

Mailing Address: 1755 Arroya Drive
Bloomfield N. Mex 87413

Phone #: 505-632-4475

email or Fax#: Kijun.hong@williams.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
~~☑~~ Standard ☐ Rush _____

Project Name: ROSA 89 D
~~ROSA 146 B~~ Line Leaks

Project #: JW018339215

Project Manager:
Kijun Hong

Sampler: M Stehl

On Ice: ☒ Yes ☐ No

Sample Temperature: 2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1809	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
9-21-18	1340	soil	ROS-89D-F	4oz	ice	001	X		X									X				
9-21-18	1400	soil	ROS-89D-W	4oz	ice	002	X		X									X				
~~9-24-18~~	~~11:30~~	~~soil~~	~~ROS-146B-F~~	~~4oz~~	~~ice~~	~~003~~	X		X									X				
~~9-21-18~~	~~12:00~~	~~soil~~	~~ROS-146B-W~~	~~4oz~~	~~ice~~	~~004~~	X		X									X				
						09/04/18 as per JW																

Date:	Time:	Relinquished by:	Received by:	Date	Time
9/24/18	1801	Mike Stehl	Christa Walker	9/24/18	1801
9/24/18	1824	Christa Walker		09/25/18	1038

Remarks:

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.

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

NVF1900731813

Release Notification

Responsible Party

Responsible Party	Harvest Four Corners, LLC	OGRID	37388
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	khong@harvestmidstream.com	Incident # *(assigned by OCD)*	
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413		

Location of Release Source

Latitude 36.643012 Longitude -107.354571
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Trunk L	Site Type Compressor Station
Date Release Discovered 12/14/2018	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
P	21,22	28N	5W	Rio Arriba

NMOCD
JAN 03 2019
DISTRICT III

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:*)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☒ Condensate	Volume Released (bbls) 22 BBLs into lined secondary containment.	Volume Recovered (bbls) 22
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Excessive liquids receive by station during a pig run. Also, higher initial level in slug catcher due to stuck float valve.

All free liquids have been recovered by vac truck from the lined secondary containment.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 12/28/2018

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: Date: 1/3/2019

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

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1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

NMOCD
DEC 03 2018
DISTRICT III

Release Notification

Responsible Party

Responsible Party	Harvest Four Corners, LLC	OGRID	37388
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	khong@harvestmidstream.com	Incident # *(assigned by OCD)*	NCS1828939224
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413		

Location of Release Source

Latitude 36.504125 Longitude -107.303735
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lateral D-2	Site Type Pipeline
Date Release Discovered 8/30/2018	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
H	12	26N	5W	Rio Arriba

Surface Owner: ☐ State ☐ Federal ☒ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 25 BBLs based on yardage removed.	Volume Recovered (bbls) 60 Yards of impacted soil removed
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) 389.9	Volume Recovered (Mcf) 0
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Pipeline failure due to corrosion.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **Unauthorized release of 25 bbls or more.**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? **Immediate courtesy notification was given by email to Cory Smith and Vanessa Fields of the NMOCD by Kijun Hong (Williams) the same day the release was discovered. Hobson of the Jicarilla Tribe was notified by telephone the same day as well by Chris Lucero (Williams). Jim Griswold (OCD) will also be included on all correspondences moving forward.**	

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	>100 (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☒ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☒ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☒ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☒ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☒ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☒ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☒ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☒ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☒ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☒ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 11/27/2018

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 11/27/2018

email: khong@harvestmidstream.com Telephone: 505-436-8457

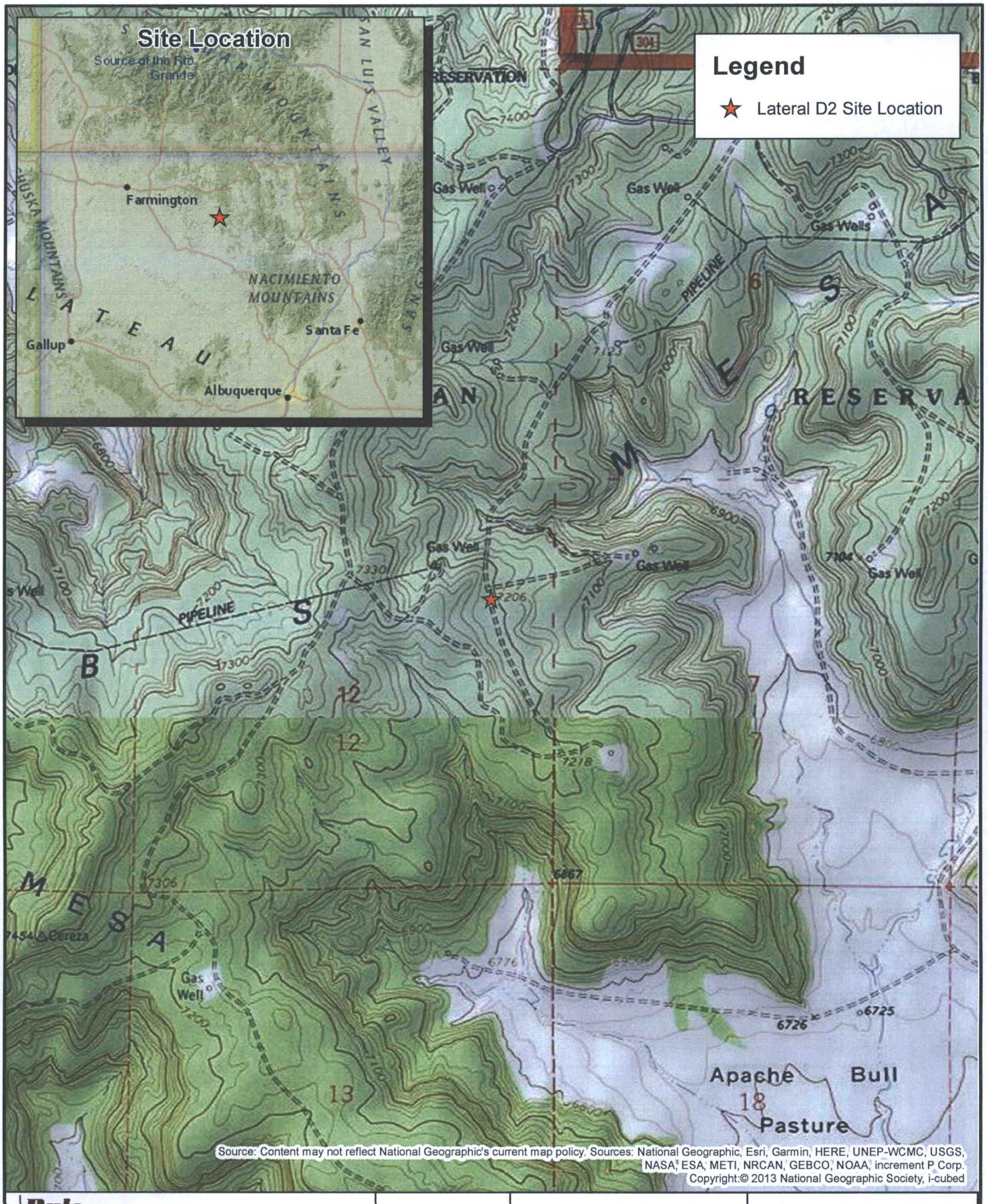
OCD Only

Received by: Vanessa Fields Date: 12/3/2018

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date: 1/8/2019

Printed Name: Vanessa Fields Title: Environmental Specialist



Document Path: Z:\Hillcorp\Trunk J\Trunk J Topographic Location Map.mxd

Rule Engineering, LLC
Solutions to Regulations for Industry

0 1,050 2,100 4,200 Feet

Vigas Canyon Quadrangle
1:24,000

HARVEST MIDSTREAM

OCD Incident # NCS1828939224
N36.50413, W107.30374
H-S12-T26N-R5W
Rio Arriba County, NM

Figure 1
Topographic Site Map
Lateral D-2

Lateral D-2 Hydrogeologic Information

Depth to groundwater is estimated to be approximately 330 feet below ground surface. This is based on the cathodic well report for the Jicarilla 119N #10A and #11 located approximately 2,080 feet to the northeast of the release location and about 120 feet lower in elevation. There are also no nearby springs labeled on the topographic map and no increased vegetation cover on the aerial photo in the vicinity of the site to suggest the presence of a spring.

The nearest significant watercourse is over 1,000 linear feet to the north of the location.

There are no water wells registered within 0.5 mile of the location.

The site is not within 300 feet of a wetland and is not within a 100-year floodplain.

The site is underlain by the Tertiary San Jose Formation which does have karst features.

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 293682.86 **Northing (Y):** 4042333.84 **Radius:** 305

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

No records found.

UTMNAD83 Radius Search (in meters):

Easting (X): 293682.86 **Northing (Y):** 4042333.84 **Radius:** 805

10A = 30-039-21199
11 = 30-039-07146

3529

DATA SHEET FOR DEEP GROUND BED CATHODIC PROTECTION WELLS
NORTHWESTERN NEW MEXICO
(Submit 3 copies to OCD Aztec Office)

Operator MERIDIAN OIL INC. Location: Unit D Sec. 7 Twp 26 Rng 4

Name of Well/Wells or Pipeline Serviced JICARILLA 119N #10A, #11

cps 2018w

Elevation 7085' Completion Date 10/18/88 Total Depth 320' Land Type* N/A

Casing, Sizes, Types & Depths N/A

If Casing is cemented, show amounts & types used N/A

If Cement or Bentonite Plugs have been placed, show depths & amounts used

N/A

Depths & thickness of water zones with description of water when possible:

Fresh, Clear, Salty, Sulphur, Etc. N/A

Depths gas encountered: N/A

Type & amount of coke breeze used: N/A

Depths anodes placed: 290', 280', 270', 255', 245', 225', 215'

Depths vent pipes placed: 316'

Vent pipe perforations: 140'

Remarks: gb #2 DRILLED 150' HOLE. FELL IN.

RECEIVED
MAY 31 1991
OIL CON. DIV.
DIST. 3

If any of the above data is unavailable, please indicate so. Copies of all logs, including Drillers Log, Water Analyses & Well Bore Schematics should be submitted when available. Unplugged abandoned wells are to be included.

*Land Type may be shown: F-Federal; I-Indian; S-State; P-Fee.
If Federal or Indian, add Lease Number.

M-07-0238 (Rev. 10-82)

MERIDIAN OIL INC.
WELL CASING
CATHODIC PROTECTION CONSTRUCTION REPORT
DAILY LOG

COMP 10-24-88

Drilling Log (Attach Hereto) ☐ Completion Date 10/18/88

CPS #	Well Name, Line or Plant:	Work Order #	State:	Ins. Union Check
2018 W	JICARILLA 119N #10A	405 48A V	.73V 600' W	☒ Good ☐ Bad
	JICARILLA 119N #11	52037A V	.74V 600' W	

Location:	Anode Size:	Anode Type:	Size Bit:
D-7-26-4	2" X 60"	Durion	6 3/4"

Depth Drilled	Depth Logged	Drilling Rig Time	Total Lbs. Coke Used	Lost Circulation Mat'l Used	No. Sacks Mud Used
560'	550'				

	#1	#2	#3	#4	#5	#6	#7	#8	#9	#10
Anode Depth	360	350	342	290	280	270	255	245	225	215
Anode Output (Amps)	4.2	5.7	3.6	6.5	4.8	4.3	6.0	4.4	5.4	5.8

	#11	#12 Hole #1	#13	#14	#15	#16	#17 Hole #2	#18	#19	#20
Anode Depth										
Anode Output (Amps)										

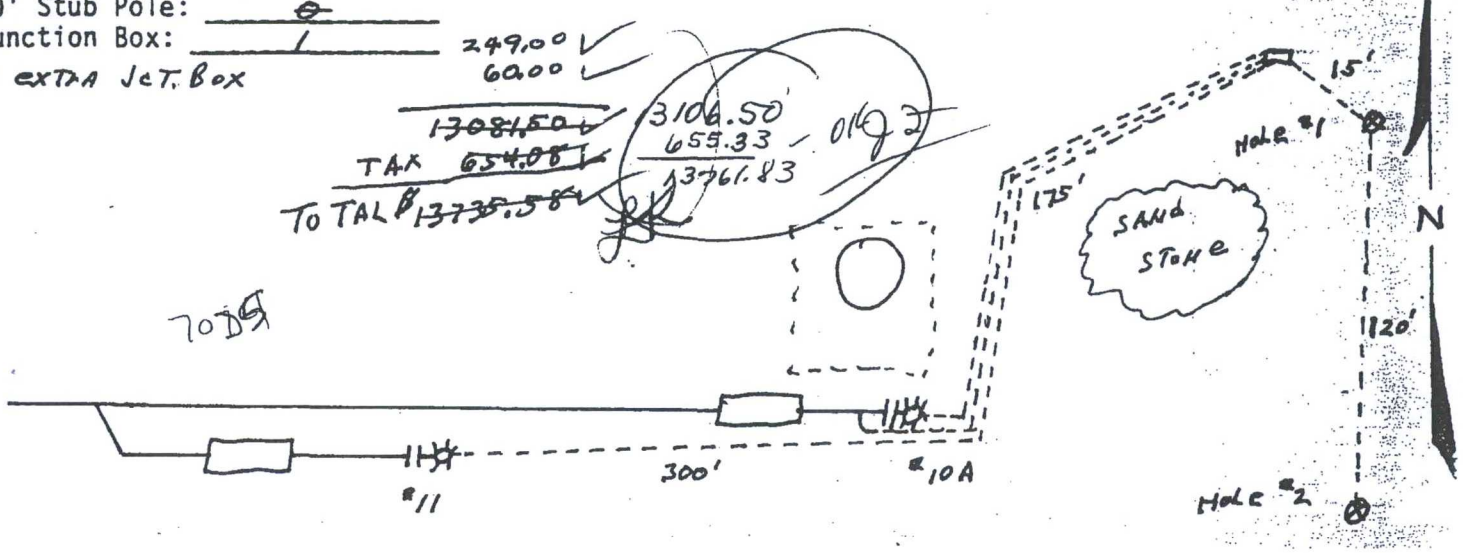
Total Circuit Resistance	No. 8 C.P. Cable Used	No. 2 C.P. Cable Used
Volts 12.0 Amps 25.8 Ohms .47		

Remarks: Hole #1 DAMP SPOT AT 210', COULD NOT GET WATER SAMPLE, DRILLED TO 560', TRYING TO FIND A BETTER WATER ZONE, COULD NOT FIND ONE. INSTALLED 550' of 1" P.V.C. VENT PIPE, PERFORATED 360'. COKED THE FIRST THREE ANODES, HOLE PLUGGED OFF. MOVED RIG OVER 40', DRILLED 150', HOLE FELL IN, HUNG DRILLER IN HOLE, MOVED TO OPPOSITE SIDE OF LOCATION, Hole #2 DRILLED 320', LOGGED 316'. INSTALLED 316' of 1" P.V.C. VENT PIPE, PERFORATED 140'. INSTALLED & COKED 7 ANODES

~~Rectifier Size~~: T.E.G. V G.B. A		4170.00 V 7695.00
Addn'l Depth + 50'		~~350.00~~ 375.00 ✓
Depth Credit: 0		
Extra Cable: 400' .25		100.00 ✓
Ditch & 1 Cable: 610' .75		457.50 ✓
~~Ditch & 2 Cable~~:		
25' Meter Pole: 0		
20' Meter Pole: 0		
10' Stub Pole: 0		
Junction Box: 1		249.00 V
1 EXTRA JCT. BOX		60.00 ✓
		~~13085.50~~ 3106.50
		655.33 - 0192
TAX		~~654.08~~ 13761.83
TOTAL		~~13739.58~~

All Construction Completed

J C Slate
(Signature)



D. Crass DRILLING CO.

Drill No. 3 2018

DRILLER'S WELL LOG

S. P. No. Sec. 19N #10A Date 10-18-88

Client Meridian Oil Co. Prospect

County Rio Arriba State New Mex.

If hole is a redrill or if moved from original staked position show distance and direction moved:

FROM	TO	FORMATION — COLOR — HARDNESS
0	40	Sandstone
40	150	Shale
150	190	Sandstone
190	200	Shale
200	210	Sand
210	240	Sandy Shale
240	300	Shale
300	340	Sandy Shale
340	400	Shale
400	420	Sandstone
420	500	Sandy Shale
500	560	Sandstone

Mud Bran Lime

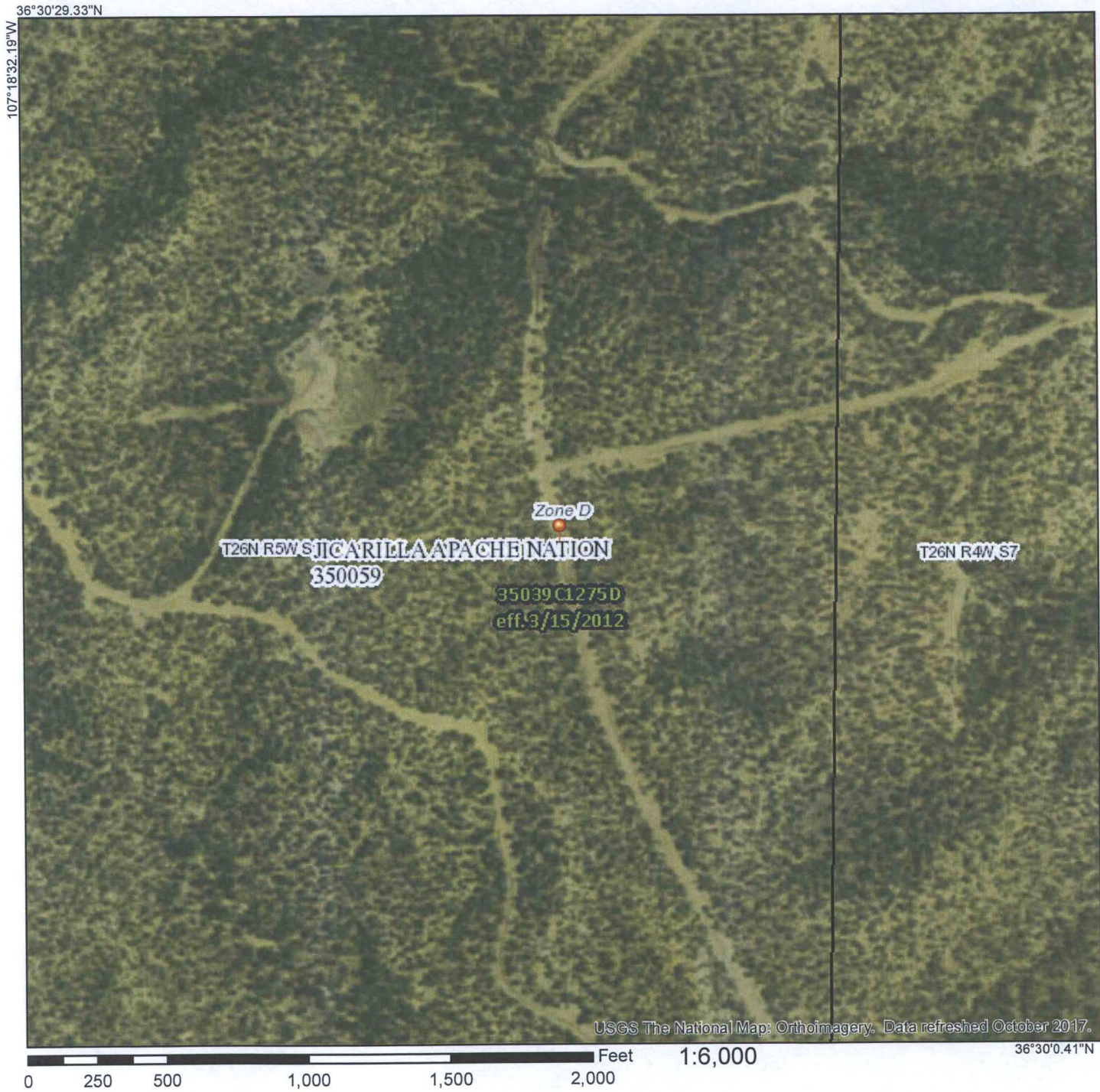
Rock Bit Number Make

Remarks: Damp @ 210'

Driller Connie Brown

National Flood Hazard Layer FIRMette

FEMA



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

SPECIAL FLOOD HAZARD AREAS
- Without Base Flood Elevation (BFE) *Zone A, V, A99*
- With BFE or Depth *Zone AE, AO, AH, VE, AR*
- Regulatory Floodway

OTHER AREAS OF FLOOD HAZARD
- 0.2% Annual Chance Flood Hazard, Areas of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile *Zone X*
- Future Conditions 1% Annual Chance Flood Hazard *Zone X*
- Area with Reduced Flood Risk due to Levee. See Notes. *Zone X*
- Area with Flood Risk due to Levee *Zone D*

OTHER AREAS
- NO SCREEN — Area of Minimal Flood Hazard *Zone X*
- Effective LOMRs
- Area of Undetermined Flood Hazard *Zone D*

GENERAL STRUCTURES
- Channel, Culvert, or Storm Sewer
- Levee, Dike, or Floodwall

OTHER FEATURES
- 20.2 / 17.5 — Cross Sections with 1% Annual Chance / Water Surface Elevation
- Coastal Transect
- 513 — Base Flood Elevation Line (BFE)
- Limit of Study
- Jurisdiction Boundary
- Coastal Transect Baseline
- Profile Baseline
- Hydrographic Feature

MAP PANELS
- Digital Data Available
- No Digital Data Available
- Unmapped

N

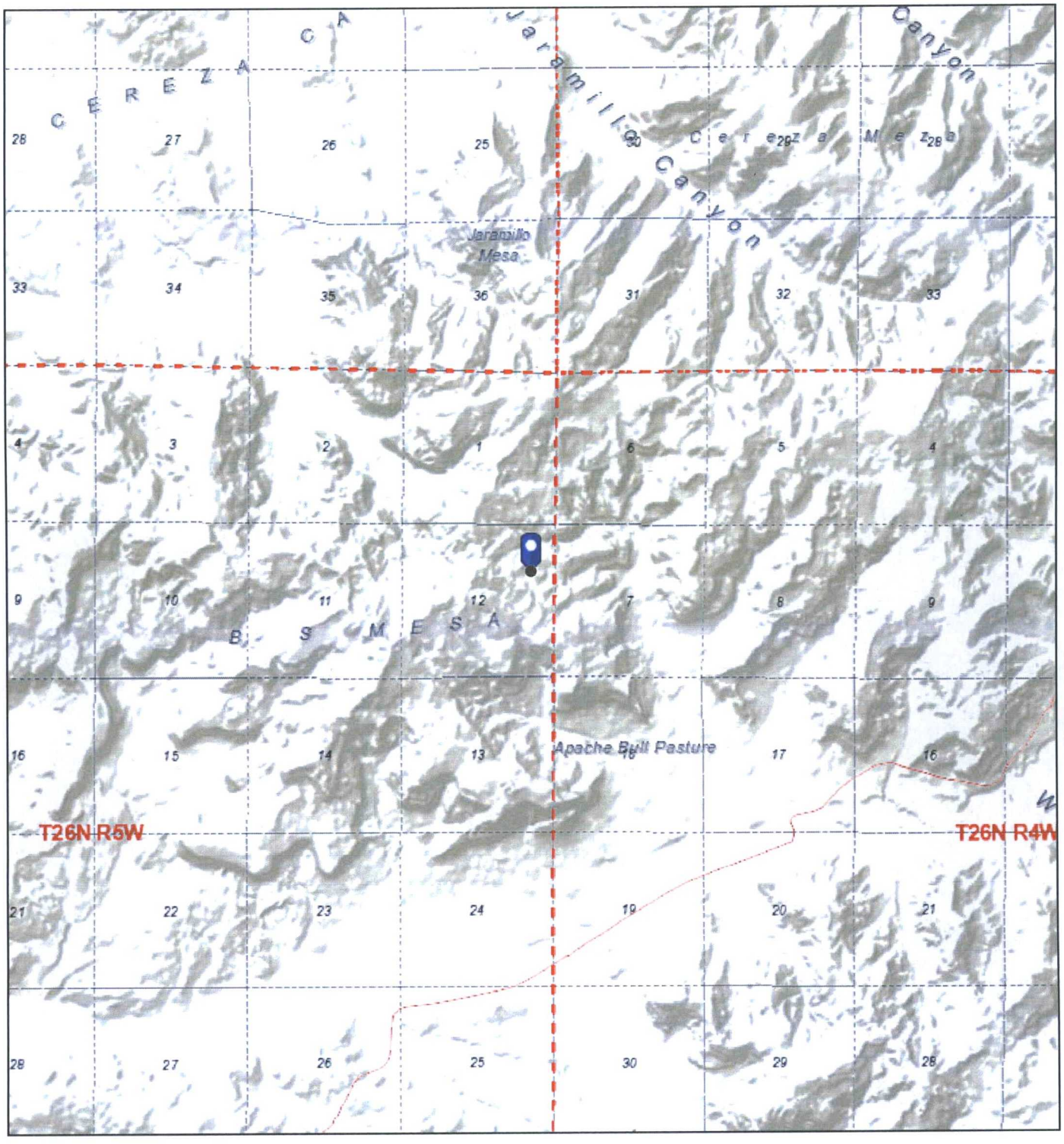
The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.

This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on 11/27/2018 at 11:48:47 AM and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Lateral D-2 Mine Map



11/27/2018, 9:55:44 AM

1:72,224

0 0.5 1 2 mi

0 0.75 1.5 3 km

Bureau of Land Management Geographic Coordinate Database, Sources: Esri, USGS, NOAA, Sources: Esri, Garmin, USGS, NPS

EMNRD MMD GIS Coordinator

NM Energy, Minerals and Natural Resources Department (http://nm-emnrd.maps.arcgis.com/apps/webappviewer/index.html?id=1b5e577974664d689b47790897ca2795)

Narrative of Remedial Activities

The Harvest Four Corners, LLC (Harvest) Lateral D-2 pipeline release site is located at N36.504125, W107.303735 in Unit Letter H, Section 12, Township 26 North, Range 5 West, in Rio Arriba County, New Mexico. The release resulted from corrosion of the pipeline discovered on August 30, 2018, and the pipeline was shut-in immediately. The release consisted of an estimated 25 barrels of produced water and 389.9 Mcf of natural gas.

On August 31, 2018, Harvest initiated remediation by dig and haul at the location. Approximately 60 cubic yards of hydrocarbon impacted soil were removed to an approved landfarm for remediation/disposal.

Notification for confirmation sampling was provided on September 4, 2018. The representative from the Oil Conservation Division (OCD) was not available for the scheduled sampling time on September 6, 2018, so gave permission to commence with sampling on September 4, 2018, as representative from the Jicarilla Apache Nation Environmental Protection Office was onsite to witness the sampling. Two three-point composite samples (*E-Wall* and *W-Wall*) were collected from the excavation for laboratory analysis.

Soil samples collected for laboratory analysis were placed into laboratory supplied glassware, labeled, and maintained on ice until delivery to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico. All samples were analyzed for chloride per USEPA Method 300.0, BTEX per USEPA Method 8021B and TPH per USEPA 8015M/D.

Laboratory analytical results for chloride, total BTEX, benzene, and total TPH are below the remediation standards. No qualifier flags were indicated for the laboratory results.

The excavation was backfilled with clean, imported soil following the receipt of laboratory analytical results.

Photograph Log
Lateral D-2 Pipeline Release
Harvest Four Corners, LLC

Rule

Photograph #1	
Client: Harvest Four Corners, LLC	Description: Facing east, view of remedial excavation and pipeline.
Site Name: Lateral D-2 Pipeline Release	
Date Photo Taken: September 10, 2018	
Release Location: N36.504125, W107.303735 H-12-26N-5W Rio Arriba County, NM	

Remediation Excavation and Sampling Form

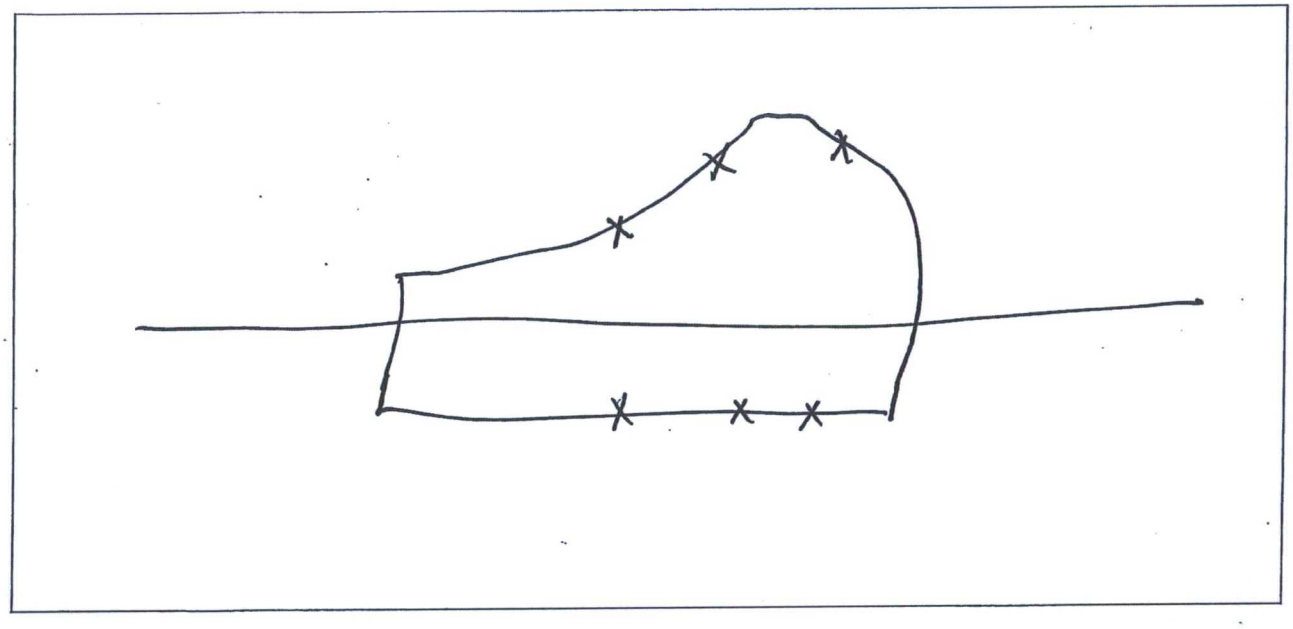
Site Name LAT D-2

Excavation Dimensions (feet)

25' Length 20' Width 4' Depth

Excavation Diagram and Sample Locations

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)

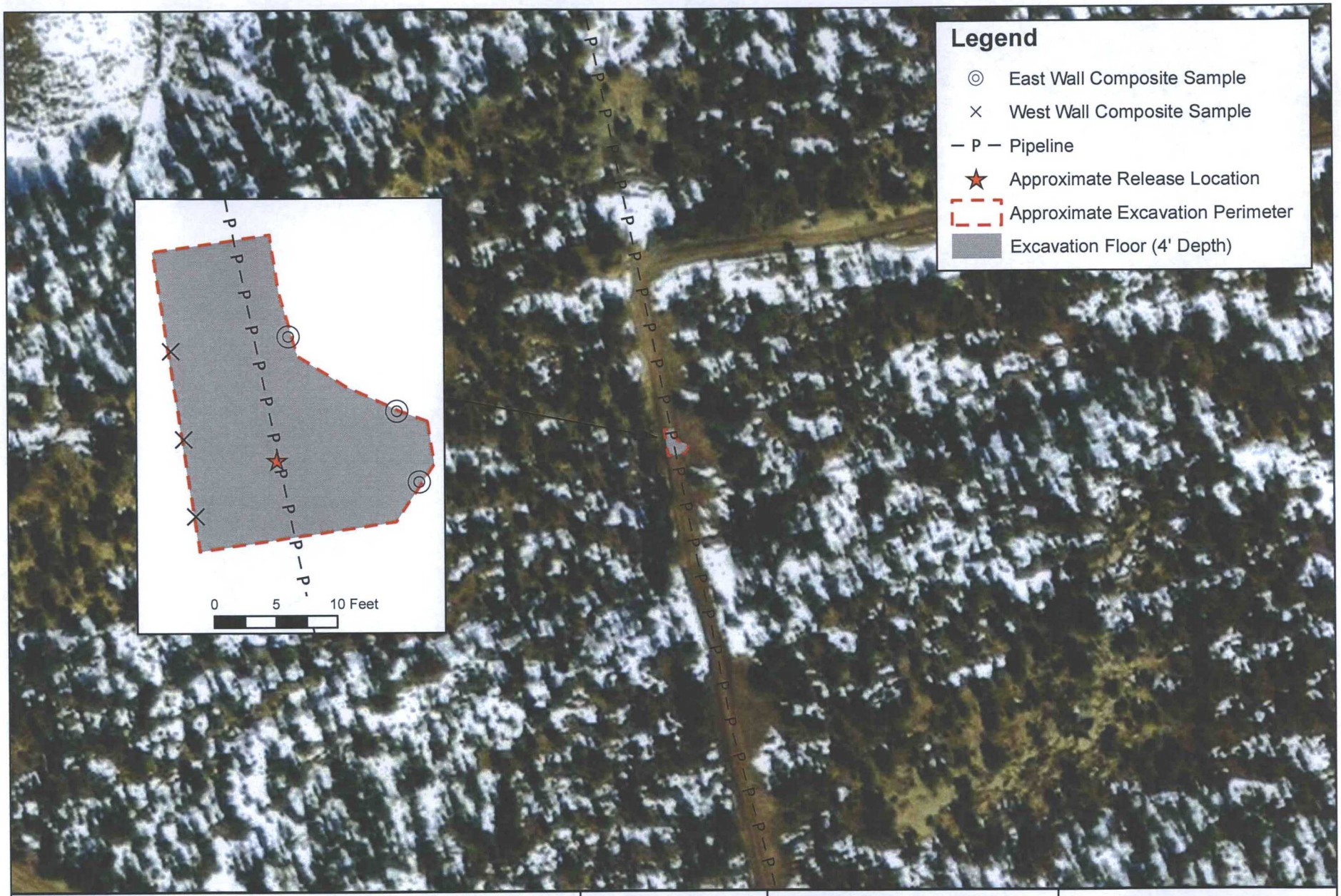


Sample Information

OCD Witness Sampling Yes or (No)

Agency(s) Representative(s) Jicarilla Oil & Gas Jason Sandoval

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
EAST WALL	9-4-18	Comp	WALL	
WEST WALL	9-4-18	Comp	WALL	



Rule Engineering, LLC
Solutions to Regulations for Industry

0 50 100 200 300 400 Feet

1 in = 125 ft

N

HARVEST MIDSTREAM

OCD Incident # NCS1828939224
N36.50413, W107.30374
H-S12-T26N-R5W
Rio Arriba County, NM

Figure 2
Aerial Site Map
Lateral D-2

Date: 11/21/2018

Document Path: Z:\Hillcorp\Lateral D-2\Lateral D2 Aerial Site Map with Sample Locations v2.mxd

Table 1. Summary of Laboratory Analytical Results
Harvest Four Corners, LLC
Lateral D-2 Pipeline Release
Rio Arriba County, New Mexico

Sample Name	Date	Approximate Sample Depth (ft bgs)	Sample Location	Laboratory Analytical Results								
				Benzene (mg/kg)	Toluene (mg/kg)	Ethylben-zene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	TPH as GRO (mg/kg)	TPH as DRO (mg/kg)	TPH as MRO (mg/kg)	Chloride (mg/kg)
Remediation Standard*				**10**	**NE**	**NE**	**NE**	**50**	**1,000 as GRO+DRO / 2,500 Total**			**20,000**
E-Wall	9/4/2018	0 - 4	East Half of Excavation	<0.10	<0.21	<0.21	0.44	0.44	<21	59	<50	150
W-Wall	9/4/2018	0 - 4	West Half of Excavation	<0.11	0.26	<0.22	8.0	8.3	130	150	<48	230

Notes:
ft bgs - feet below grade surface
mg/kg - milligrams per kilogram
NE - not established
ND - not detected above laboratory reporting limits
TPH - total petroleum hydrocarbons
GRO - gasoline range organics
DRO - diesel range organics
MRO - mineral oil range organics
*Per Table 1 of 19.15.29.12 NMAC, based on category *"greater than 100 feet" depth* to groundwater

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

September 11, 2018

Lloyd Bell
Williams Field Services
188 Co. Rd 4900
Bloomfield, NM 87413
TEL:
FAX

RE: LAD D-2 OrderNo.: 1809064

Dear Lloyd Bell:

Hall Environmental Analysis Laboratory received 2 sample(s) on 9/5/2018 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1809064**
Date Reported: **9/11/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: LAD D-2
Lab ID: 1809064-001 **Matrix:** SOIL

Client Sample ID: E Wall
Collection Date: 9/4/2018 12:00:00 PM
Received Date: 9/5/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	150	30		mg/Kg	20	9/5/2018 10:30:08 AM	40145
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	59	9.9		mg/Kg	1	9/5/2018 10:23:06 AM	40144
Motor Oil Range Organics (MRO)	ND	50		mg/Kg	1	9/5/2018 10:23:06 AM	40144
Surr: DNOP	114	50.6-138		%Rec	1	9/5/2018 10:23:06 AM	40144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	21		mg/Kg	5	9/5/2018 9:34:27 AM	G53917
Surr: BFB	110	15-316		%Rec	5	9/5/2018 9:34:27 AM	G53917
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.10		mg/Kg	5	9/5/2018 9:34:27 AM	B53917
Toluene	ND	0.21		mg/Kg	5	9/5/2018 9:34:27 AM	B53917
Ethylbenzene	ND	0.21		mg/Kg	5	9/5/2018 9:34:27 AM	B53917
Xylenes, Total	0.44	0.42		mg/Kg	5	9/5/2018 9:34:27 AM	B53917
Surr: 4-Bromofluorobenzene	93.6	80-120		%Rec	5	9/5/2018 9:34:27 AM	B53917

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Williams Field Services
Project: LAD D-2
Lab ID: 1809064-002 **Matrix:** SOIL

Client Sample ID: W Wall
Collection Date: 9/4/2018 12:00:00 PM
Received Date: 9/5/2018 7:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	230	30		mg/Kg	20	9/5/2018 10:42:33 AM	40145
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	150	9.6		mg/Kg	1	9/5/2018 10:45:10 AM	40144
Motor Oil Range Organics (MRO)	ND	48		mg/Kg	1	9/5/2018 10:45:10 AM	40144
Surr: DNOP	117	50.6-138		%Rec	1	9/5/2018 10:45:10 AM	40144
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	130	22		mg/Kg	5	9/5/2018 9:57:45 AM	G53917
Surr: BFB	189	15-316		%Rec	5	9/5/2018 9:57:45 AM	G53917
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.11		mg/Kg	5	9/5/2018 9:57:45 AM	B53917
Toluene	0.26	0.22		mg/Kg	5	9/5/2018 9:57:45 AM	B53917
Ethylbenzene	ND	0.22		mg/Kg	5	9/5/2018 9:57:45 AM	B53917
Xylenes, Total	8.0	0.43		mg/Kg	5	9/5/2018 9:57:45 AM	B53917
Surr: 4-Bromofluorobenzene	95.0	80-120		%Rec	5	9/5/2018 9:57:45 AM	B53917

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809064**

11-Sep-18

Client: Williams Field Services

Project: LAD D-2

Sample ID **MB-40145**	SampType: **mblk**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBS**	Batch ID: **40145**	RunNo: **53927**
Prep Date: **9/5/2018**	Analysis Date: **9/5/2018**	SeqNo: **1781197** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID **LCS-40145**	SampType: **lcs**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSS**	Batch ID: **40145**	RunNo: **53927**
Prep Date: **9/5/2018**	Analysis Date: **9/5/2018**	SeqNo: **1781198** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.4	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809064**

11-Sep-18

Client: Williams Field Services

Project: LAD D-2

Sample ID **MB-40144**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **40144**	RunNo: **53915**
Prep Date: **9/5/2018**	Analysis Date: **9/5/2018**	SeqNo: **1779402** 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	11		10.00		106	50.6	138			

Sample ID **LCS-40144**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **40144**	RunNo: **53915**
Prep Date: **9/5/2018**	Analysis Date: **9/5/2018**	SeqNo: **1779424** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	48	10	50.00	0	95.8	70	130			
Surr: DNOP	4.8		5.000		96.2	50.6	138			

Sample ID **MB-40111**	SampType: **MBLK**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS**	Batch ID: **40111**	RunNo: **53915**
Prep Date: **9/4/2018**	Analysis Date: **9/5/2018**	SeqNo: **1780862** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	11		10.00		110	50.6	138			

Sample ID **LCS-40111**	SampType: **LCS**	TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS**	Batch ID: **40111**	RunNo: **53915**
Prep Date: **9/4/2018**	Analysis Date: **9/5/2018**	SeqNo: **1780884** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: DNOP	5.6		5.000		113	50.6	138			

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 Detection Limit
- W Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809064**

11-Sep-18

Client: Williams Field Services

Project: LAD D-2

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **G53917**	RunNo: **53917**
Prep Date:	Analysis Date: **9/5/2018**	SeqNo: **1780252** 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	930		1000		92.8	15	316			

Sample ID **2.5UG GRO LCS**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **G53917**	RunNo: **53917**
Prep Date:	Analysis Date: **9/5/2018**	SeqNo: **1780253** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	27	5.0	25.00	0	107	75.9	131			
Surr: BFB	1000		1000		100	15	316			

Sample ID **1809064-001AMS**	SampType: **MS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **E Wall**	Batch ID: **G53917**	RunNo: **53917**
Prep Date:	Analysis Date: **9/5/2018**	SeqNo: **1780254** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	130	21	104.1	9.700	113	77.8	128			
Surr: BFB	5000		4163		121	15	316			

Sample ID **1809064-001AMSD**	SampType: **MSD**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **E Wall**	Batch ID: **G53917**	RunNo: **53917**
Prep Date:	Analysis Date: **9/5/2018**	SeqNo: **1780255** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	120	21	104.1	9.700	110	77.8	128	2.51	20	
Surr: BFB	5000		4163		121	15	316	0	0	

Sample ID **MB-40113**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **40113**	RunNo: **53917**
Prep Date: **9/4/2018**	Analysis Date: **9/5/2018**	SeqNo: **1780256** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	960		1000		95.7	15	316			

Sample ID **LCS-40113**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **40113**	RunNo: **53917**
Prep Date: **9/4/2018**	Analysis Date: **9/5/2018**	SeqNo: **1780257** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: BFB	1000		1000		104	15	316			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809064**

11-Sep-18

Client: Williams Field Services

Project: LAD D-2

Sample ID **RB**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **B53917**	RunNo: **53917**
Prep Date:	Analysis Date: **9/5/2018**	SeqNo: **1780290** 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	0.88		1.000		88.0	80	120			

Sample ID **100NG BTEX LCSB**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **B53917**	RunNo: **53917**
Prep Date:	Analysis Date: **9/5/2018**	SeqNo: **1780291** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.84	0.025	1.000	0	84.4	77.3	128			
Toluene	0.87	0.050	1.000	0	86.7	79.2	125			
Ethylbenzene	0.85	0.050	1.000	0	85.2	80.7	127			
Xylenes, Total	2.6	0.10	3.000	0	87.2	81.6	129			
Surr: 4-Bromofluorobenzene	0.87		1.000		87.4	80	120			

Sample ID **1809064-002AMS**	SampType: **MS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **W Wall**	Batch ID: **B53917**	RunNo: **53917**
Prep Date:	Analysis Date: **9/5/2018**	SeqNo: **1780292** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.7	0.11	4.344	0	86.3	68.5	133			
Toluene	4.0	0.22	4.344	0.2650	85.8	75	130			
Ethylbenzene	3.9	0.22	4.344	0	90.7	79.4	128			
Xylenes, Total	19	0.43	13.03	7.971	87.6	77.3	131			
Surr: 4-Bromofluorobenzene	4.1		4.344		95.1	80	120			

Sample ID **1809064-002AMSD**	SampType: **MSD**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **W Wall**	Batch ID: **B53917**	RunNo: **53917**
Prep Date:	Analysis Date: **9/5/2018**	SeqNo: **1780293** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	3.7	0.11	4.344	0	86.2	68.5	133	0.116	20	
Toluene	3.9	0.22	4.344	0.2650	84.2	75	130	1.67	20	
Ethylbenzene	3.9	0.22	4.344	0	88.8	79.4	128	2.09	20	
Xylenes, Total	19	0.43	13.03	7.971	87.3	77.3	131	0.222	20	
Surr: 4-Bromofluorobenzene	4.1		4.344		94.4	80	120	0	0	

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1809064**

11-Sep-18

Client: Williams Field Services

Project: LAD D-2

Sample ID **MB-40113**	SampType: **MBLK**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS**	Batch ID: **40113**	RunNo: **53917**
Prep Date: **9/4/2018**	Analysis Date: **9/5/2018**	SeqNo: **1780294** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.92		1.000		92.0	80	120			

Sample ID **LCS-40113**	SampType: **LCS**	TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS**	Batch ID: **40113**	RunNo: **53917**
Prep Date: **9/4/2018**	Analysis Date: **9/5/2018**	SeqNo: **1780295** Units: **%Rec**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	0.93		1.000		93.1	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: WILLIAMS FIELD SERVI Work Order Number: 1809064 RcptNo: 1

Received By: Anne Thorne 9/5/2018 7:00:00 AM Anne Thorne

Completed By: Anne Thorne 9/5/2018 7:25:07 AM Anne Thorne

Reviewed By: JO 09/05/18

Labeled by: AT 09/05/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to 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 container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for 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. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

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 ☐ In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
3	1.3	Good	Yes			

Chain-of-Custody Record

Client: WPS

Mailing Address: 1755 ARROYO DR

Phone #:

email or Fax#: LLOYD BELL

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:
☐ Standard ☑ Rush Same Day

Project Name: LAD D-2

Project #:

Project Manager: LLOYD BELL

Sampler: Nick Higgins

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.3 CF -0.6 = 1.7

3 coolers

A 090518

HEAL No. 1809614

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	CHLORIDE				Air Bubbles (Y or N)
~~9-4-18~~	~~12:00~~	~~soil~~		Mesh kb																		
9-4-18	12:00	Soil	E-WALL	1-402	COOL	-001	X		X									X				
9-4-18	12:00	Soil	W-WALL	1-402	COOL	-002	↑		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
9-4-18	1712	Nick Higgins		9/4/18	1712
9/4/18	1917			09/05/18	0700

Remarks:

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.

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Inc # NVF1902432312

Responsible Party

Responsible Party	Harvest Midstream	OGRID	37388
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	khong@harvestmidstream.com	Incident # *(assigned by OCD)*	
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413		

Location of Release Source

Latitude 36.83651 Longitude -107.28980
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lateral M-3 Launcher	Site Type Pipeline
Date Release Discovered 1/2/2019	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
P	6	30N	4W	Rio Arriba

DISTRICT III
JAN 22 2019
NMOCD

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) 8	Volume Recovered (bbls) 8
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Unmarked poly line damaged during excavation.

2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 1/17/2019

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: Vanessa Fields Date: 1/22/2019

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	10/4
Facility ID	
Application ID	

DISTRICT III
JAN 22 2019
NMOCD

Release Notification

Responsible Party

Responsible Party	Harvest Four Corners, LLC	OGRID	37388
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	khong@harvestmidstream.com	Incident # *(assigned by OCD)*	NCS 1902438742
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413		

Location of Release Source

Latitude 36.246881 Longitude -107.537388
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Rincon	Site Type Compressor Station
Date Release Discovered 1/1/2019	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
P,A	2,11	23N	7W	Rio Arriba

Surface Owner: ☒ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) 2,574	Volume Recovered (Mcf) 0
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Extreme temperatures and liquids in the line caused the supply line to the ESD to freeze and fail open.

Upon discovery, the release was immediately stopped. Heat tracing and insulation were installed to prevent future freezes.

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State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **Unauthorized release of gases exceeding 500 MCF**

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Kijun Hong gave notification to Cory Smith, Vanessa Fields, and Jim Griswold by email on 1/1/2019.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 1/16/2019

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: Date: 1/24/19

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 1/16/2019

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: OCD Date: 1/22/19

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date: 1/31/19

Printed Name: Cory Title: Environmental Spec.

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

Harvest Midstream – Rincon ESD
Release Date: 1/1/2019
Incident Number: NCS1902438742

Executive Summary

On January 1, 2019, the Harvest Midstream – Rincon facility experienced an Emergency Shutdown (ESD) and the ESD vent valve lifted, releasing natural gas to the atmosphere. Upon arrival of the Harvest employee, the release was stopped by manually closing the valve. As this was a gas release only, with no liquids associated, no remediation was required and no confirmation samples were collected.

The ESD valve activation was caused by a freeze in the supply line. Heat trace and insulation were added to prevent future incidents.

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

Harvest Midstream – Rincon ESD
Release Date: 1/1/2019
Incident Number: NCS1902438742

Site Map and Sampling Diagram

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

Harvest Midstream – Rincon ESD
Release Date: 1/1/2019
Incident Number: NCS1902438742

Photographs

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	1014
Facility ID	
Application ID	

NMOCD
JAN 16 2019
DISTRICT III

Release Notification

Responsible Party

Responsible Party	Harvest Four Corners, LLC	OGRID	37388
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	khong@harvestmidstream.com	Incident # *(assigned by OCD)*	NCS1903150282
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413		

Location of Release Source

Latitude 36.643012 Longitude -107.354571
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Trunk L	Site Type Compressor Station
Date Release Discovered 12/29/2018	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
P	21,22	28N	5W	Rio Arriba

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) 1,100	Volume Recovered (Mcf) 0
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Extreme temperatures and liquids in the line caused the sensing line to the PRV to freeze and fail open.

Upon discovery, the release was immediately stopped. Additional heat tracing was installed under the existing insulation to prevent future freezes.

(E)

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **Unauthorized release of gases exceeding 500 MCF**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? **Kijun Hong gave notification to Cory Smith, Vanessa Fields, and Jim Griswold by email on 12/31/2018.**	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: [signature] Date: 1/13/2019

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: OCD Date: 1/16/19

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 1/13/2019

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: 1/31/19 Date: OCD

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date: 1/31/19

Printed Name: Cory Title: Environmental Spec.

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

Harvest Midstream - Trunk L PRV Release
Release Date: 12/29/2018
Incident Number:

Executive Summary

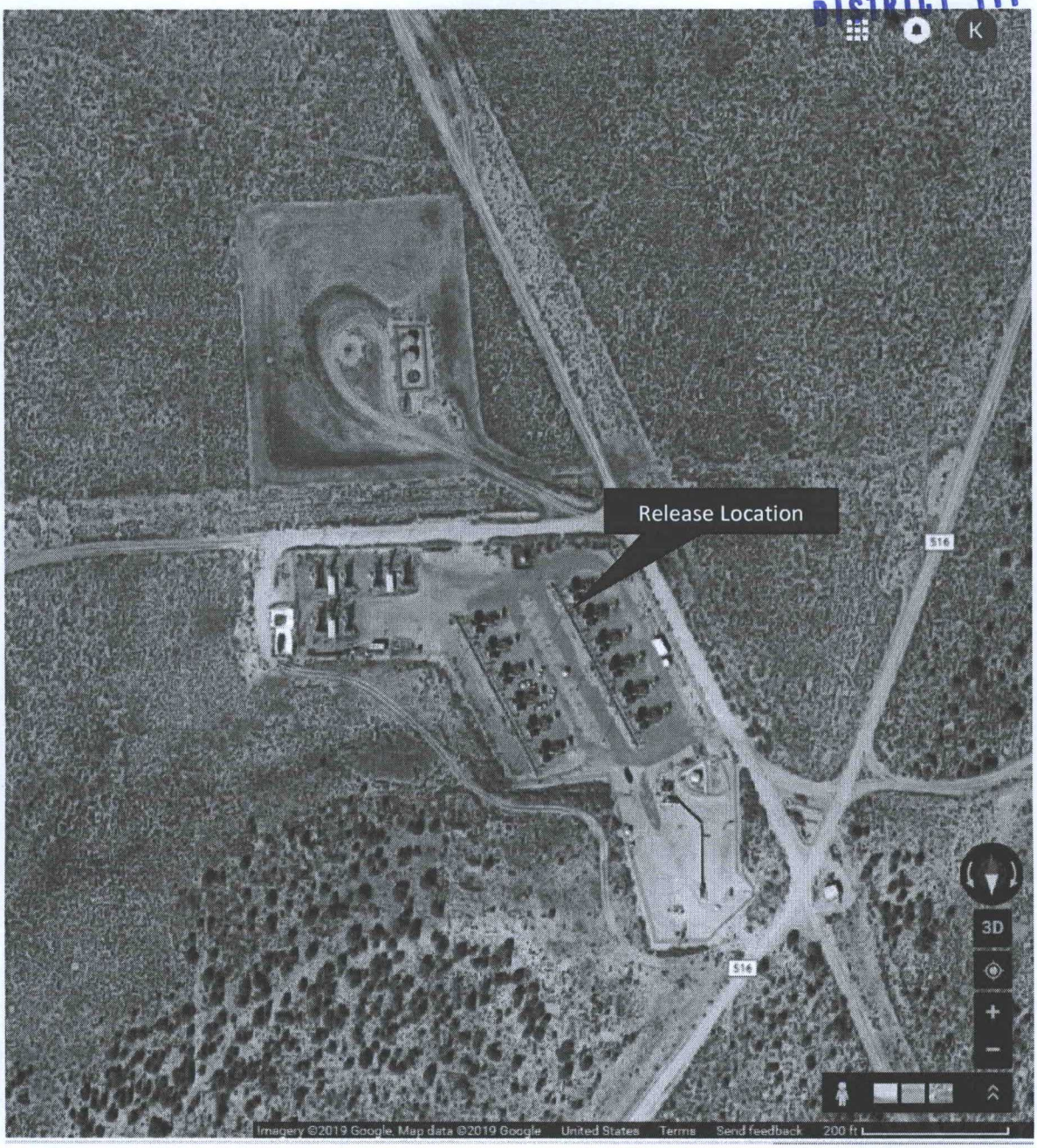
On December 29, 2018, a Pressure Relief Valve (PRV) at the Harvest Midstream – Trunk L facility was discovered lifting and releasing natural gas to the atmosphere. Upon arrival of the Harvest optech, the release was stopped. As this was a gas release only, with no liquids associated, no remediation was required and no confirmation samples were collected.

The PRV activation was caused by a freeze in the sensing line. Further investigation found that the heat trace was not in direct contact with the line. Tape was wrapped around the heat trace and line to maintain contact and the insulation blanket was replace.

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

Harvest Midstream - Trunk L PRV Release
Release Date: 12/29/2018
Incident Number:

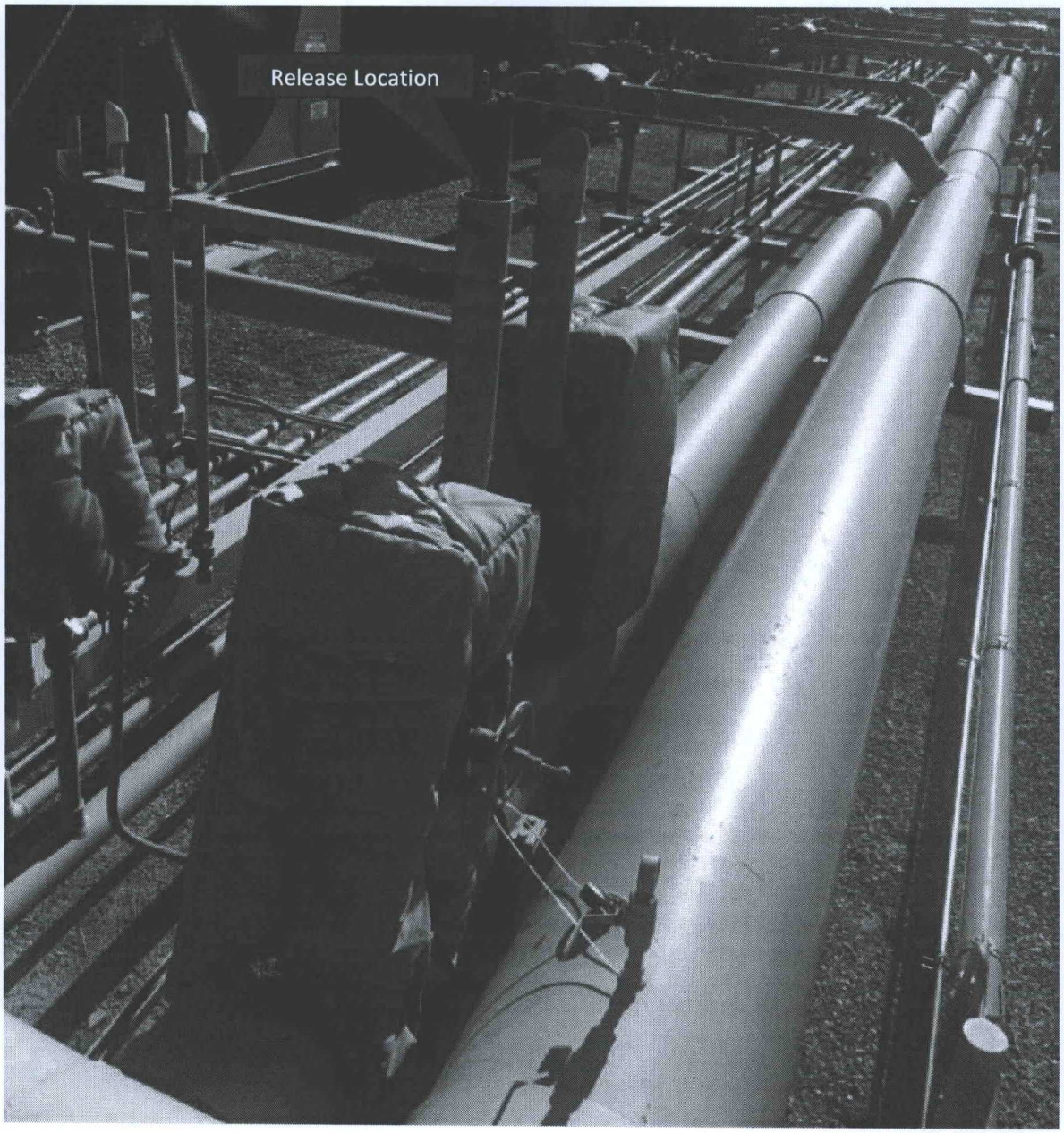
Site Map and Sampling Diagram



Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

Harvest Midstream - Trunk L PRV Release
Release Date: 12/29/2018
Incident Number:

Photographs



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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	3RP-1014
Facility ID	
Application ID	

NMOCD
JAN 25 2019
DISTRICT III

Release Notification

Responsible Party

Responsible Party	Harvest Four Corners, LLC	OGRID	37388
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	khong@harvestmidstream.com	Incident # *(assigned by OCD)*	
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413		

NCS 1903855245

Location of Release Source

Latitude 36.704792 Longitude -107.496173
(NAD 83 in decimal degrees to 5 decimal places)

Site Name 29-6-4	Site Type Compressor Station
Date Release Discovered 1/5/2019	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
P	19	29N	6W	Rio Arriba

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) 53	Volume Recovered (Mcf) 0
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Extreme temperatures and liquids in the line caused the supply line to the ESD to freeze and fail open.

Upon discovery, the release was immediately stopped.

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State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 1/18/2019

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: OCD Date: 1/25/19

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 1/18/2019

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: OCD Date: 2/5/19

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date: 2/7/19

Printed Name: Cory Title: Environmental Spec.

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

Harvest Midstream – 29-6-4 ESD
Release Date: 1/5/2019
Incident Number:

Executive Summary

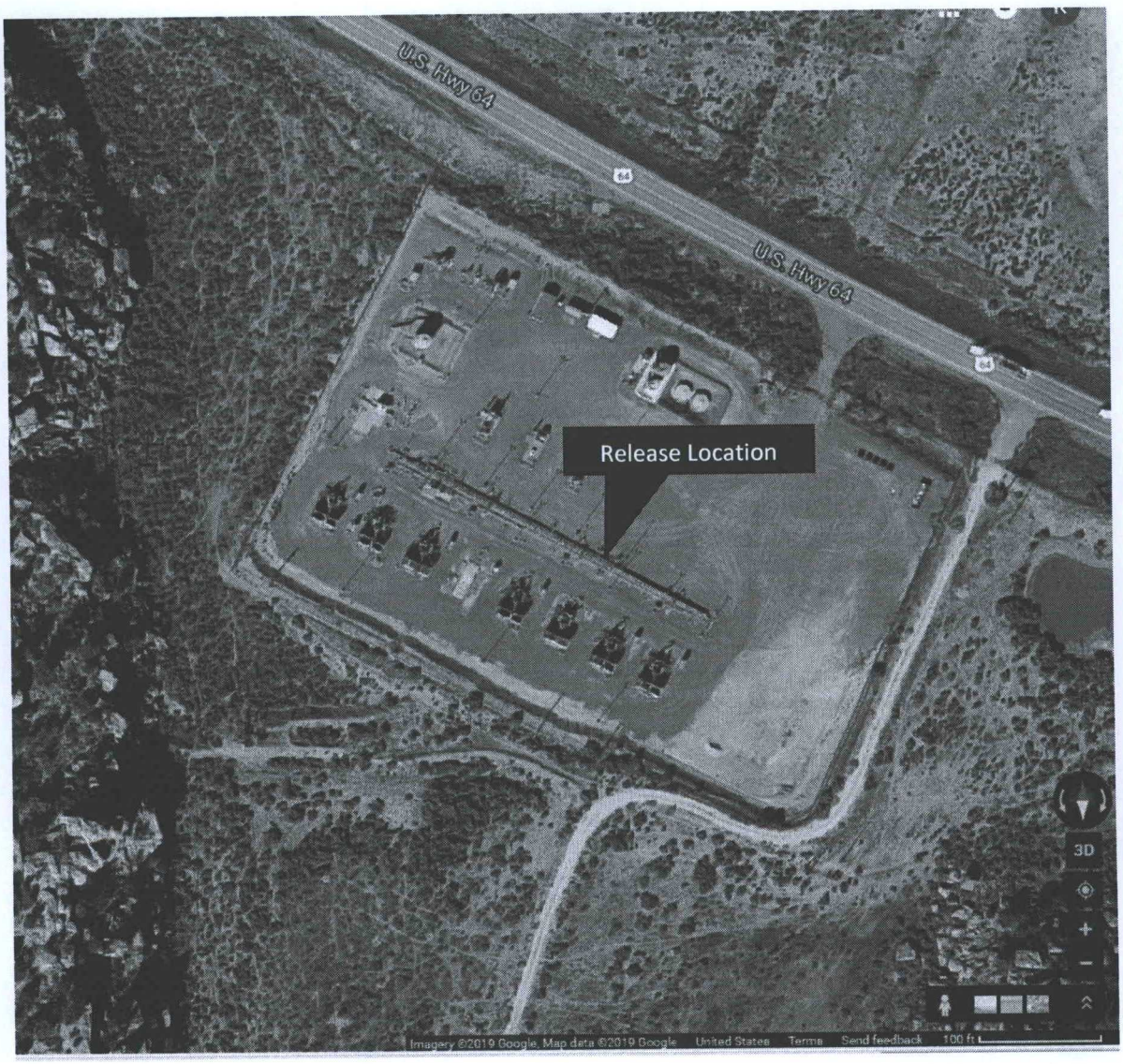
On January 5, 2019, the Harvest Midstream – 29-6-4 facility experienced an Emergency Shutdown (ESD) and the ESD vent valve lifted, releasing natural gas to the atmosphere. The ESD valve activation was caused by a freeze in the supply line. Upon arrival of the Harvest employee, the release was immediately stopped.

As this was a gas release only, with no liquids associated, no remediation was required and no confirmation samples were collected.

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

Harvest Midstream – 29-6-4 ESD
Release Date: 1/5/2019
Incident Number:

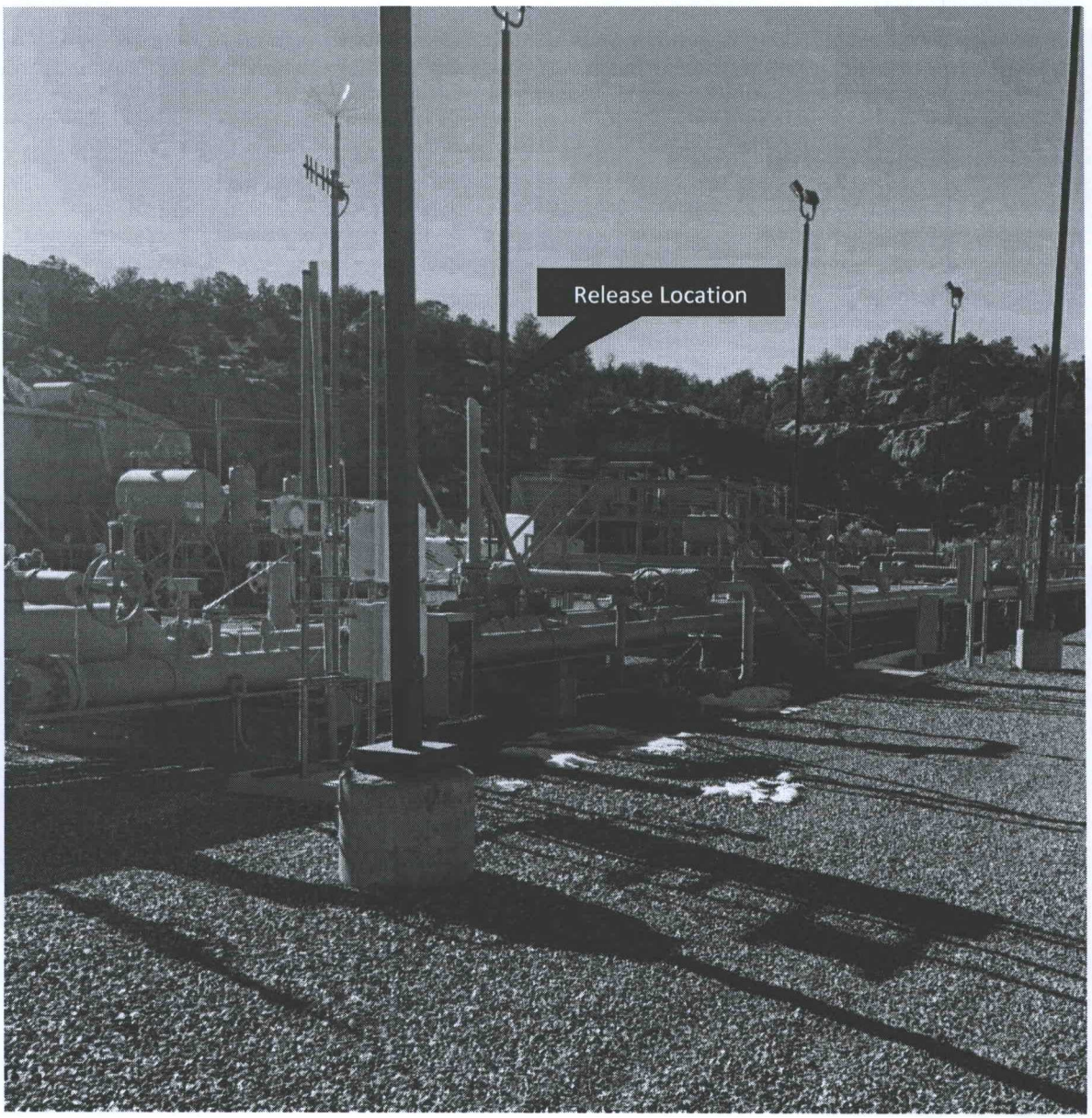
Site Map and Sampling Diagram



Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

Harvest Midstream – 29-6-4 ESD
Release Date: 1/5/2019
Incident Number:

Photographs



District I
1625 N. French Dr., Hobbs, NM 88240
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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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party **Harvest Four Corners, LLC**	OGRID **37388**
Contact Name **Monica Sandoval**	Contact Telephone **505-632-4625 (o) 505-947-1852 (c)**
Contact email **msandoval@harvestmidstream.com**	Incident # *(assigned by OCD)* nVF1831835563
Contact mailing address **1755 Arroyo Dr., Bloomfield, NM 87413**	

NMOCD
FEB 11 2019
DISTRICT III

Location of Release Source

Latitude **36.77680** Longitude **-107.20395**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **Trunk M 6" pig launcher**	Site **Type Pipeline**
Date Release Discovered **10/25/2018**	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
O	25	30N	4W	Rio Arriba

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
☐	Is the concentration of total dissolved solids (TDS) in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
X Other (describe)	Volume/Weight Released (provide units) **Methanol, 500 gallons (12 bbls)**	Volume/Weight Recovered (provide units) **100 gallons**

Cause of Release

The 500 gallon Methanol tank was at the time of the incident being filled by Triple S Trucking. While filling the methanol storage tank located at the Trunk M 6" pig launcher, the tank over pressured resulting in a fail of the weld along the back of the tank. The tank was dislodged for the tank stand. The tank failure resulted in the release of 500 gallons of methanol onto the ground making its way to a dry wash located 130 yards from the tank. There was a Triple S truck driver and Harvest employee onsite at the time of the incident, no injuries occurred. Further investigation determined that the ¼" sight glass tap used for venting, plugged up, resulting in the over pressure.

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State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **Unauthorized release of Methanol into a dry wash.**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, e mail, etc)? **Yes, Monica Sandoval called and left a voicemail with Vanessa Fields 10/25/2018 at12:37pm, and had a follow up phone conversation 10/25/2018 at 1:10pm. A follow up email was sent to Vanessa Fields, Cory Smith, and Jim Griswold 10/25/2018 at 3:37pm**	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☐ X The source of the release has been stopped.
☐ X The impacted area has been secured to protect human health and the environment.
☐ X Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☐ X All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Monica Sandoval Title: Environmental Specialist

Signature: Monicasandoval Date: 11/9/2018

email: msandoval@harvestmidstream.com Telephone: 505-947-1852

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No X
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No X
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No X
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No X
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No X
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No X
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No X
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No X
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No X
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No X
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No X
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ No X

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☒ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☒ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Monica Sandoval Title: Environmental Specalist

Signature: MonicaSandoval Date: 1/23/2019

email: msandoval@harvestmidstream.com Telephone: 505-947-1852

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

[X] A scaled site and sampling diagram as described in 19.15.29.11 NMAC

[X] Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

[X] Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

[X] Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Monica Sandoval
Title: Environmental Specialist

Signature: MonicaSandoval
Date: 2/6/2019

email: msandoval@harevstmidstream.com
Telephone: 505-947-1852

OCD Only

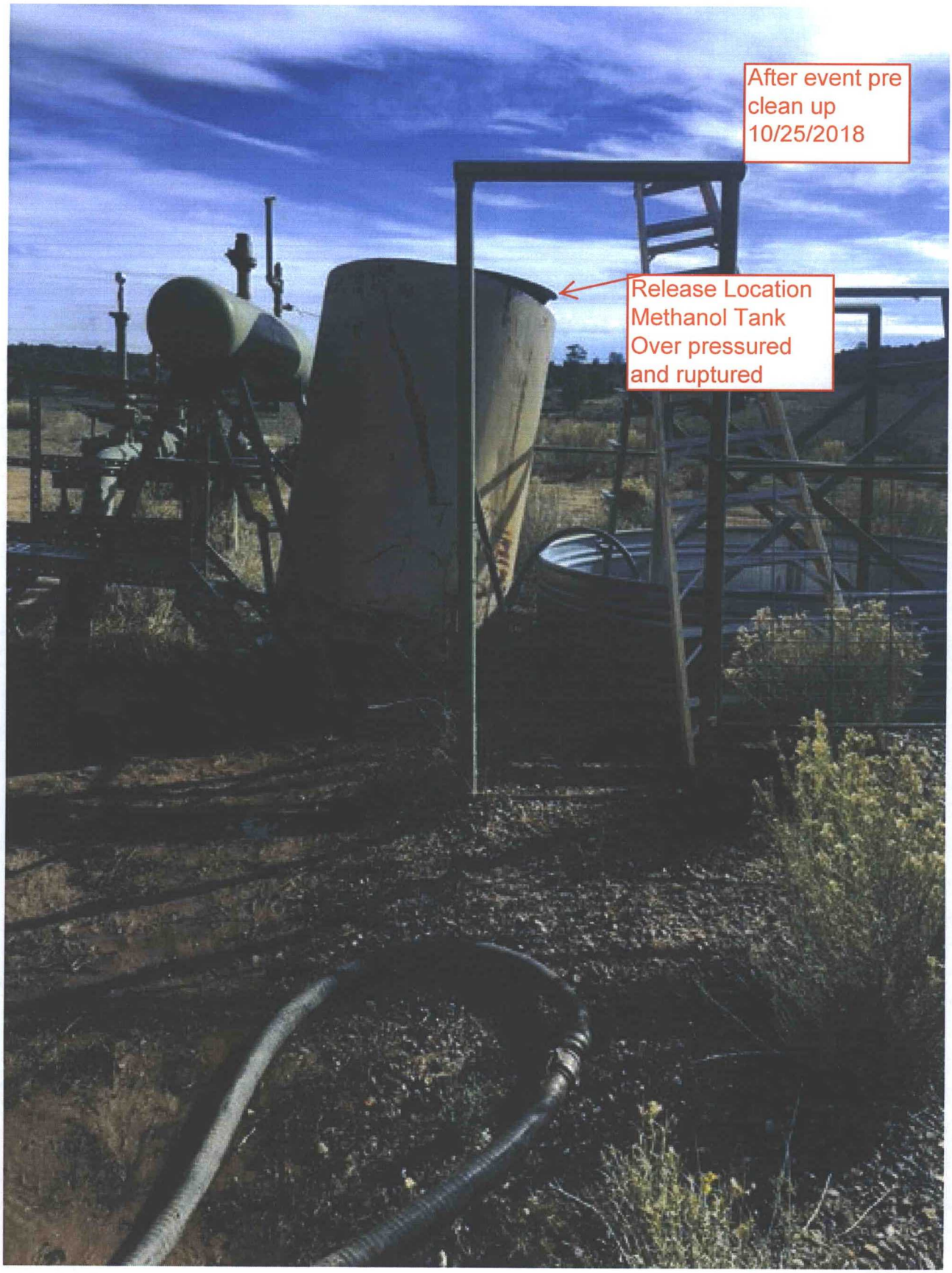
Received by: Vanessa Fields
Date: 2/11/2019

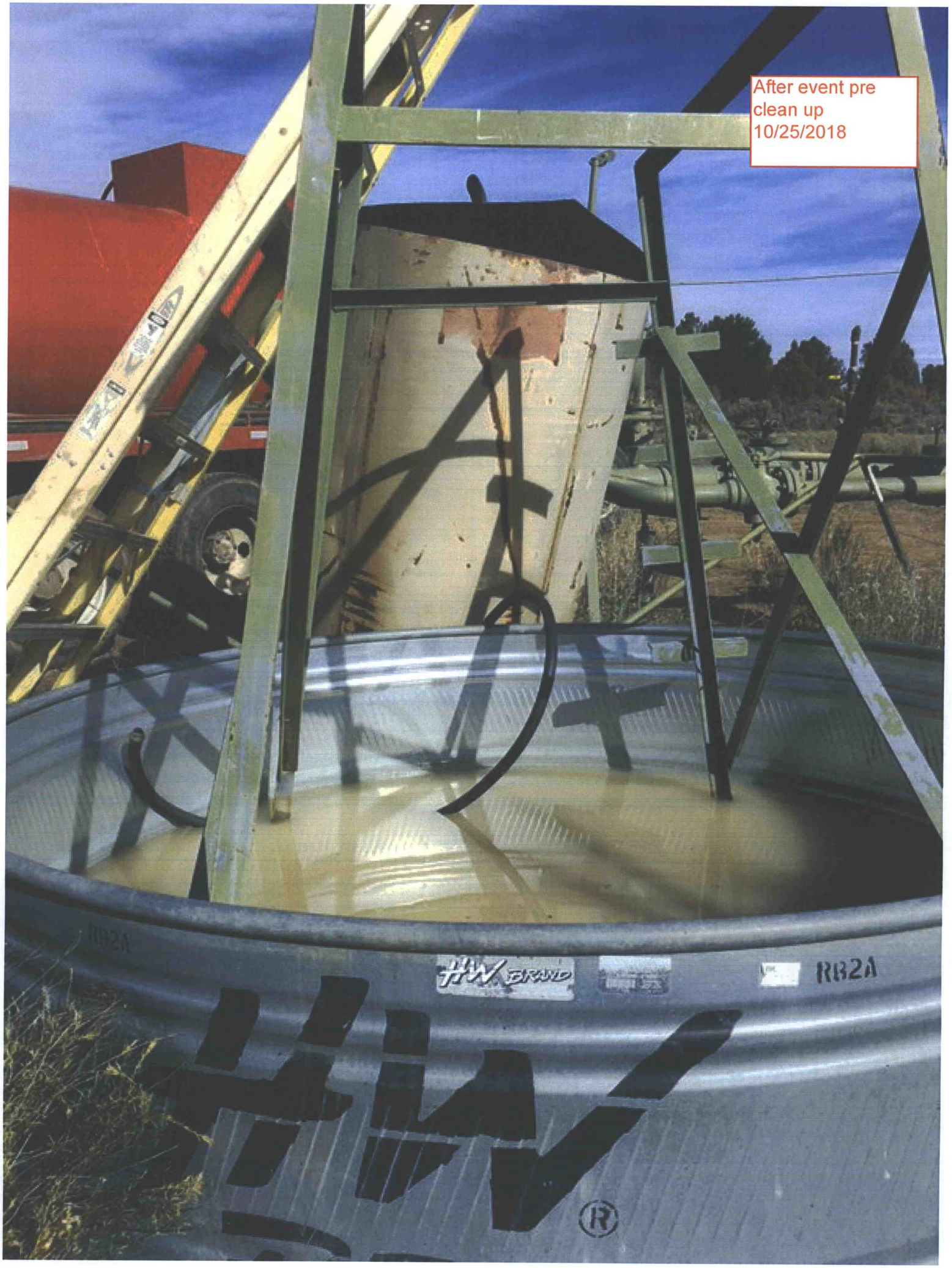
Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

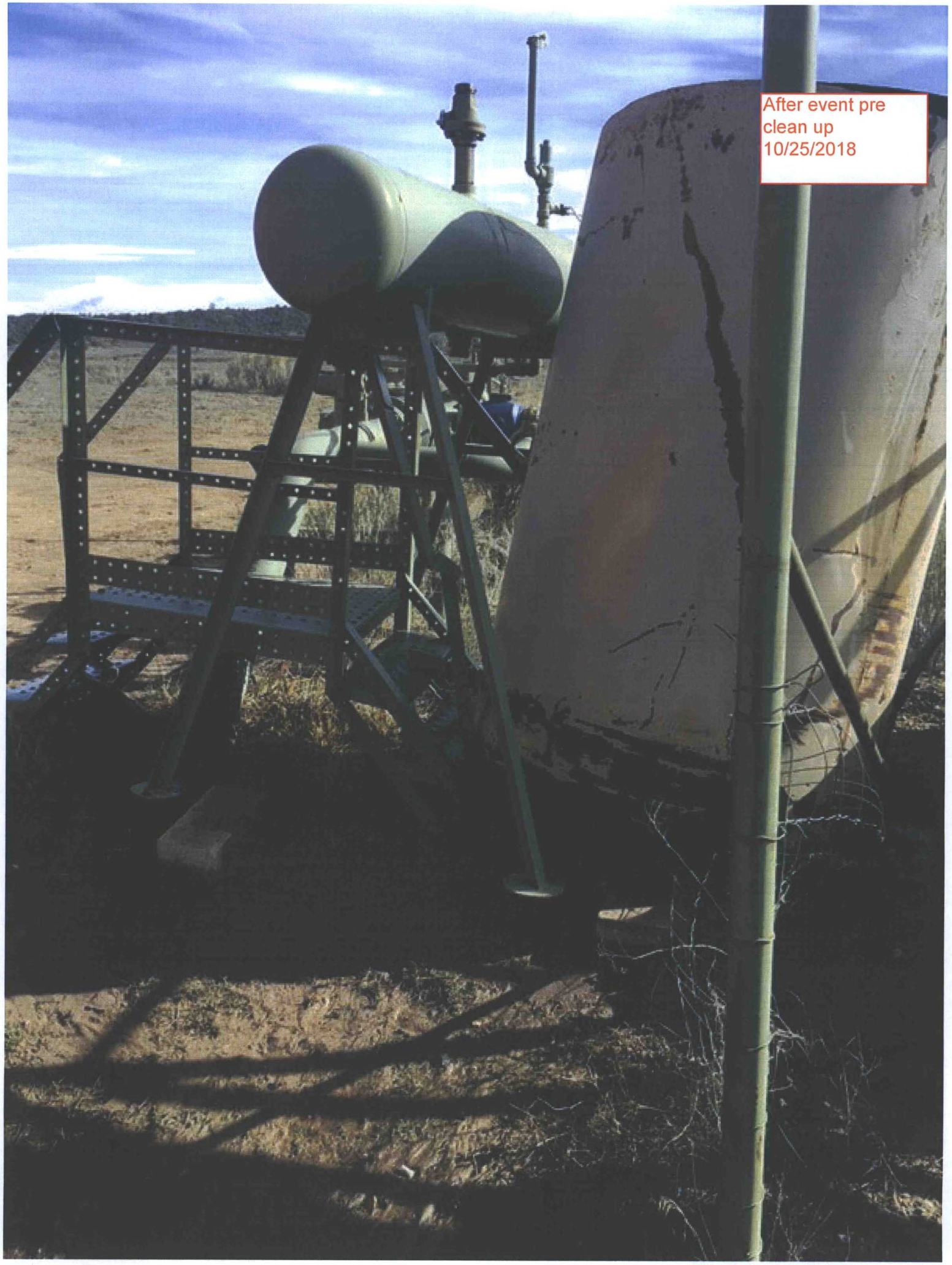
Closure Approved by:
Date: 2/11/2019

Printed Name: Vanessa Fields
Title: Environmental Specialist


Trunk M 6" pig launcher -
Methanol Tank
Lat 36.77680, Long -107.20395


After event pre clean up 10/25/2018
Release Location Methanol Tank Over pressured and ruptured


After event pre clean up 10/25/2018
HW BRAND
RB2A


After event pre
clean up
10/25/2018

HARVEST MIDSTREAM

Harvest Midstream - 4 Corners

Excavation/Sampling Form

Harvest Midstream Company
1111 Travis Street
Houston, TX 77002
713-209-2400

Release Name: Trunk M 6 in' Pig Receiver Methanol

Responsible Person: _____

Reportable to the OCD? Yes

Can be reportable for many reasons, not just volumes.

Signs of liquids release? Yes

Liquids include condensate, produced water, and/or any chemical.

Sampling Required?

Yes — Sampling is required for all reportable releases where any amount of liquids were released.

Soil Disposal Required? _____

Date	Yards - Disposal Facility
10-26-18	Hauled TO Kutz stockPik
	36 Yards
11-12-18	36 Yards
	Kutz StockPile
	ON 20mL liNer
	66 Yards

TOTAL:

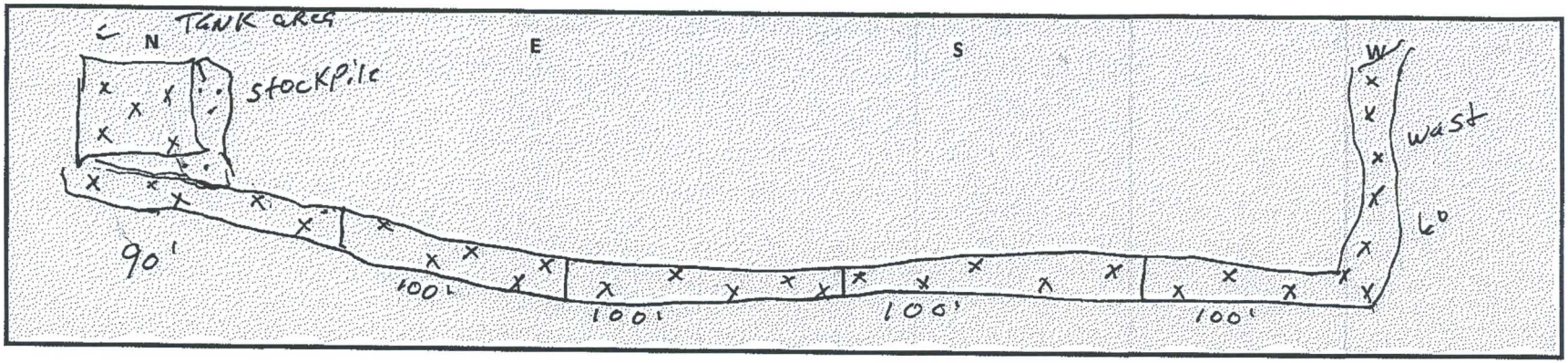
Date	Action/Notes
	Remediation Start
10-25-18	started clean up
	Notification of Sampling (2 business days) Who made call: Monica Sandoval & Morgan Killion Talked to: Vanessa Fields Time: _____ Notes: initial sampling 10/30/2018 at 10:30 am **Cory Smith (OCD)** Office: 505-334-6178 x115 Cell: 505-419-2687 **Vanessa Fields(OCD)** Office: 505-334-6178 x119 Cell: 505-419-0463 **Hobson Sandoval (Jicarilla)** Office: 575-759-7445 Cell: 505-486-4966
	Confirmation sampling/PID reading. Sampling or PID: Sample Agency Witness: Corey Smith
	Back Fill Date (make sure to take pictures of open excavation)
1-10-19	**Close Date**

Additional Notes:

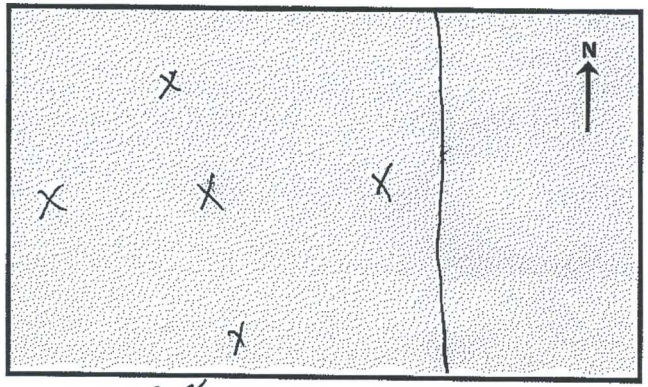
Sampling and Excavation Data

Include dimensions (ft) and sample locations

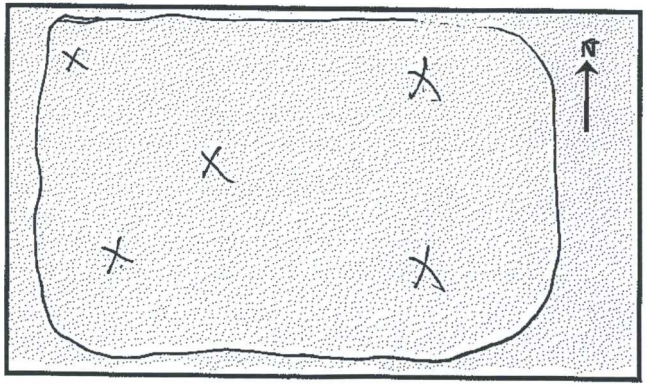
Side Walls



Bottom



Stock Pile



Sample or PID? Sample ReSampled 11-12-2019

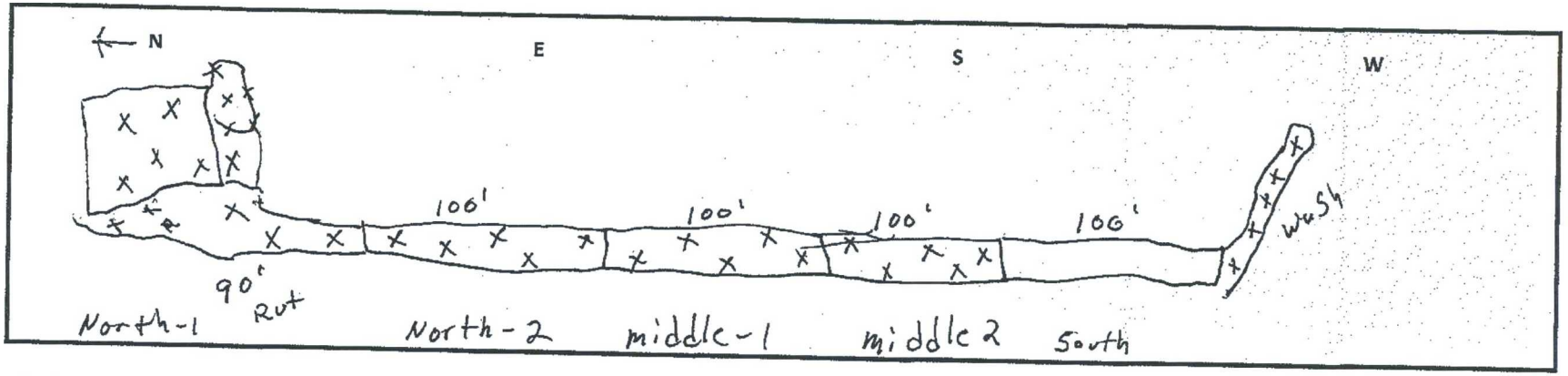
ID	Location (Bottom/Sidewall)	Type (Composite/Grab)	Comment/PID Value
TANK Area	Bottom	composite	2 Nd Round
North Area 1			
North Area 2			
middle Area 1			
middle Area 2			
South Area			
Wash			
Stockpile	Bottom	composite	

Composite samples must represent less than 200 square feet.

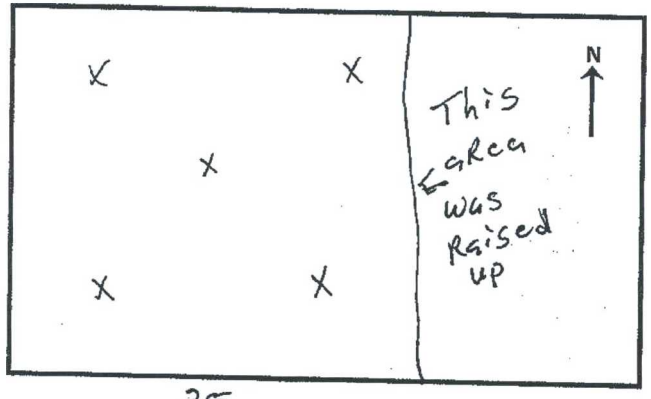
Sampling and Excavation Data

Include dimensions (ft) and sample locations

Side Walls



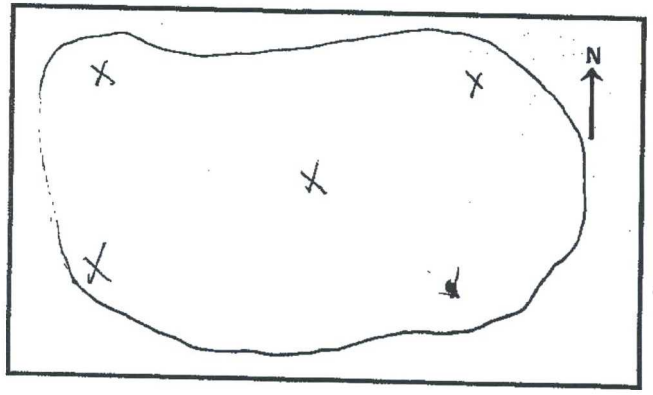
Bottom



TANK area

25

Stock Pile



Sample or PID? Samples 10-30-2019

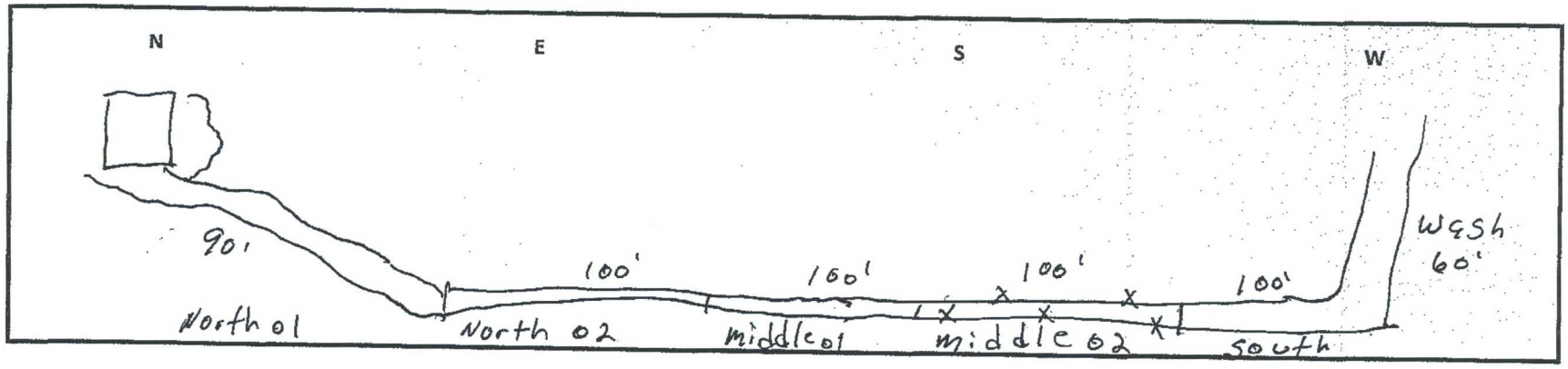
ID	Location (Bottom/Sidewall)	Type (Composite/Grab)	Comment/PID Value
TANK AREA	Bottom	Composite	1-Record
North Area 1	Bottom	composite	
North area 2	Bottom	composite	
middle area 1	Bottom	Composite	
middle area 2	Bottom	composite	
South Area	Bottom	composite	
Wash Area	Bottom	composite	
Stockpile	Bottom	composite	

Composite samples must represent less than 200 square feet.

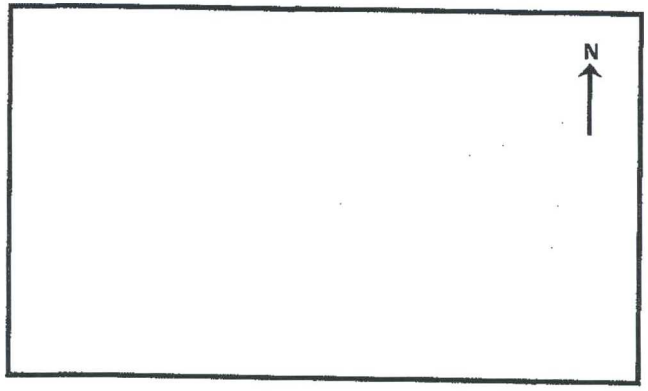
Sampling and Excavation Data

Include dimensions (ft) and sample locations

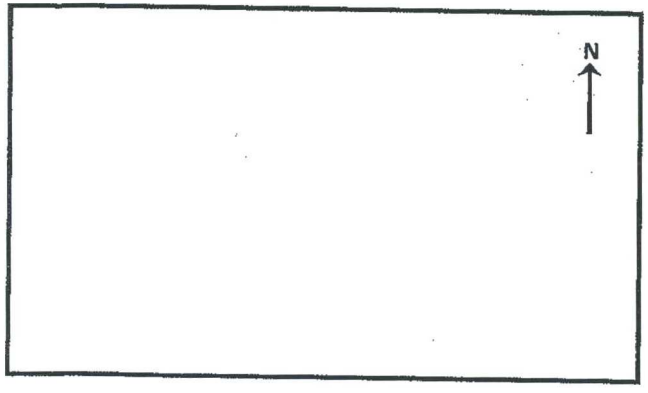
Side Walls



Bottom



Stock Pile



Sample or PID? Sample 11-26-18 3 Round

ID	Location (Bottom/Sidewall)	Type (Composite/Grab)	Comment/PID Value
middle 02	Bottom	Composite	

Composite samples must represent less than 200 square feet.

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Distance	Depth Well	Depth Water	Water Column
SJ 01291	SJ	RA		4	1	25	30N	04W	302930	4073243*	946	500	250	250
SJ 03900 POD1	SJ	RA	4	4	4	26	30N	04W	302124	4072384	1191	380	200	180
SJ 03742 POD1	SJ	RA	4	4	3	26	30N	04W	301401	4072375*	1915	480	210	270
SJ 00037	SJ	RA			2	04	29N	04W	298778	4070389*	4955	373		
SJ 00042	SJ	RA			1	28	30N	04W	297901	4073566*	5543	62		
SJ 01575	SJ	RA	2	4	4	08	29N	03W	306675	4067672*	5782	306		

Average Depth to Water: **220 feet**

Minimum Depth: **200 feet**

Maximum Depth: **250 feet**

Record Count: 6

UTMNAD83 Radius Search (in meters):

Easting (X): 303316.15 **Northing (Y):** 4072378.57 **Radius:** 10000

***UTM location was derived from PLSS - see Help**

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 06, 2018

Monica Sandoval
Harvest
1755 Arroyo Dr.
Bloomfield, NM 87413
TEL: (505) 632-4475
FAX

RE: Trunk M Methanol OrderNo.: 1811071

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 8 sample(s) on 10/31/2018 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
4901 Hawkins NE
Albuquerque, NM 87109

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	181031036
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	TRUNK M METHANOL
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	181031036-001	**Sampling Date**	10/30/2018	**Date/Time Received**	10/31/2018 11:42 AM
Client Sample ID	1811071-001A / TANK AREA			**Extraction Date**	11/2/2018
Matrix	Soil	**Sampling Time**	11:00 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	376	mg/kg	50	11/5/2018 11:04:00 AM	RPR	GC/FID	
%moisture	6	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Sample Number	181031036-002	**Sampling Date**	10/30/2018	**Date/Time Received**	10/31/2018 11:42 AM
Client Sample ID	1811071-002A / NORTH AREA 1			**Extraction Date**	11/2/2018
Matrix	Soil	**Sampling Time**	11:10 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	310	mg/kg	50	11/5/2018 11:50:00 AM	RPR	GC/FID	
%moisture	6.3	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Sample Number	181031036-003	**Sampling Date**	10/30/2018	**Date/Time Received**	10/31/2018 11:42 AM
Client Sample ID	1811071-003A / NORTH AREA 2			**Extraction Date**	11/2/2018
Matrix	Soil	**Sampling Time**	11:15 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	ND	mg/kg	50	11/5/2018 12:05:00 PM	RPR	GC/FID	
%moisture	0	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	181031036
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	TRUNK M METHANOL
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	181031036-004	**Sampling Date**	10/30/2018	**Date/Time Received**	10/31/2018 11:42 AM
Client Sample ID	1811071-004A / MIDDLE AREA 1			**Extraction Date**	11/2/2018
Matrix	Soil	**Sampling Time**	11:20 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	723	mg/kg	50	11/5/2018 12:20:00 PM	RPR	GC/FID	
%moisture	5.9	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Sample Number	181031036-005	**Sampling Date**	10/30/2018	**Date/Time Received**	10/31/2018 11:42 AM
Client Sample ID	1811071-005A / MIDDLE AREA 2			**Extraction Date**	11/2/2018
Matrix	Soil	**Sampling Time**	11:30 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	420	mg/kg	50	11/5/2018 12:35:00 PM	RPR	GC/FID	
%moisture	13.7	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Sample Number	181031036-006	**Sampling Date**	10/30/2018	**Date/Time Received**	10/31/2018 11:42 AM
Client Sample ID	1811071-006A / SOUTH AREA			**Extraction Date**	11/2/2018
Matrix	Soil	**Sampling Time**	11:40 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	1270	mg/kg	50	11/5/2018 12:50:00 PM	RPR	GC/FID	
%moisture	7.7	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Anatek Labs, Inc.

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	181031036
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	TRUNK M METHANOL
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	181031036-007	**Sampling Date**	10/30/2018	**Date/Time Received**	10/31/2018 11:42 AM
Client Sample ID	1811071-007A / WASH			**Extraction Date**	11/2/2018
Matrix	Soil	**Sampling Time**	11:50 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	1290	mg/kg	50	11/5/2018 1:06:00 PM	RPR	GC/FID	
%moisture	10.3	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Sample Number	181031036-008	**Sampling Date**	10/30/2018	**Date/Time Received**	10/31/2018 11:42 AM
Client Sample ID	1811071-008A / STOCKPILE			**Extraction Date**	11/2/2018
Matrix	Soil	**Sampling Time**	12:50 PM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	756	mg/kg	50	11/5/2018 1:21:00 PM	RPR	GC/FID	
%moisture	7.4	Percent		11/5/2018 2:30:00 PM	RPR	%moisture	

Authorized Signature

Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 181031036
Project Name: TRUNK M METHANOL

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Methanol	225	mg/L	250	90.0	60-130	11/2/2018	11/5/2018

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Methanol	242	mg/L	250	96.8	7.3	0-25	11/2/2018	11/5/2018

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
181031036-001	Methanol	376	1330	mg/kg	1000	95.4	50-150	11/2/2018	11/5/2018

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Methanol	1540	mg/kg	1000	116.4	14.6	0-25	11/2/2018	11/5/2018

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Methanol	ND	mg/kg	25	11/2/2018	11/5/2018

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Harvest | Work Order Number: 1811071 | RcptNo: 1

Received By: Victoria Zellar | 10/31/2018 8:00:00 AM | Victoria Zellar

Completed By: Anne Thorne | 11/2/2018 8:33:29 AM | Anne Thorne

Reviewed By: AT 11/02/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	FedEx		

Log In

3. Was an attempt made to 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 container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for 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. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

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 ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

DUE TO RUSH TAT, CW SHIPPED SAMPLES DIRECTLY TO ANATEK LABS/at 11/2/18

17. **Cooler Information**

Chain-of-Custody Record

Client: Harvest mid Stream

Mailing Address: 1755 ARROYO DR
Bloomfield NM 87413

Phone #: 505-947-1852

email or Fax#: MSandoval@Harvestmidstream.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush _____

Project Name: TRUNK M methanol

Project #:

Project Manager: Monica Sandoval

Sampler: Morgan Killcer

On Ice: ☑ Yes ☐ No

Sample Temperature: 2.3, 3.8 2 coolers

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1811071	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	methanol				Air Bubbles (Y or N)
10/30/18	1100	soil	TANK AREA	1-402	Cool	001												X				
10/30/18	1110	soil	North AREA #1	1-402		002												X				
10/30/18	1115	soil	North AREA #2	1-402		003												X				
10/30/18	1120	soil	middle AREA #1	1-402		004												X				
10/30/18	1130	soil	middle AREA #2	1-402		005												X				
10/30/18	1140	soil	south AREA	1-402		006												X				
10/30/18	1150	soil	Wash	1-402		007												X				
10/30/18	1250	soil	stock Pile	1-402		008												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
10/30/18	1428	Morgan Killcer	Christen Wade	10/30/18	1428
10/30/18	1640	Christen Wade	Courier VV2 10/31/18 8:00	10/31/18	8:00

Remarks:

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 19, 2018

Monica Sandoval
Harvest
1755 Arroyo Dr.
Bloomfield, NM 87413
TEL:
FAX

RE: 2nd Set of Samples Trunk M Methanol OrderNo.: 1811634

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/13/2018 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
4901 Hawkins NE
Albuquerque, NM 87109

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	181113061
Address:	4901 HAWKINS NE SUITE D	**Project Name:**	1811634
	ALBUQUERQUE, NM 87109		
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	181113061-001	**Sampling Date**	11/12/2018	**Date/Time Received**	11/13/2018 11:12 AM
Client Sample ID	1811634-001A/TANK AREA 01-02			**Extraction Date**	11/14/2018
Matrix	Soil	**Sampling Time**	10:30 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	44.3	mg/kg	25	11/15/2018 1:22:00 PM	TGT	GC/FID	
%moisture	3	Percent		11/15/2018 3:00:00 PM	TGT	%moisture	

Sample Number	181113061-002	**Sampling Date**	11/12/2018	**Date/Time Received**	11/13/2018 11:12 AM
Client Sample ID	1811634-002A/NORTH AREA 01-02			**Extraction Date**	11/14/2018
Matrix	Soil	**Sampling Time**	10:40 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	67.3	mg/kg	25	11/15/2018 1:35:00 PM	TGT	GC/FID	
%moisture	6.6	Percent		11/15/2018 3:00:00 PM	TGT	%moisture	

Sample Number	181113061-003	**Sampling Date**	11/12/2018	**Date/Time Received**	11/13/2018 11:12 AM
Client Sample ID	1811634-003A/NORTH AREA 02-02			**Extraction Date**	11/14/2018
Matrix	Soil	**Sampling Time**	10:45 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	ND	mg/kg	25	11/15/2018 1:48:00 PM	TGT	GC/FID	
%moisture	3.3	Percent		11/15/2018 3:00:00 PM	TGT	%moisture	

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Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	181113061
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1811634
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	181113061-004	**Sampling Date**	11/12/2018	**Date/Time Received**	11/13/2018 11:12 AM
Client Sample ID	1811634-004A/MIDDLE AREA 01-02			**Extraction Date**	11/14/2018
Matrix	Soil	**Sampling Time**	10:50 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	275	mg/kg	25	11/15/2018 2:00:00 PM	TGT	GC/FID	
%moisture	5.5	Percent		11/15/2018 3:00:00 PM	TGT	%moisture	

Sample Number	181113061-005	**Sampling Date**	11/12/2018	**Date/Time Received**	11/13/2018 11:12 AM
Client Sample ID	1811634-005A/MIDDLE AREA 02-02			**Extraction Date**	11/14/2018
Matrix	Soil	**Sampling Time**	11:00 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	1960	mg/kg	25	11/16/2018 12:50:00 PM	TGT	GC/FID	
%moisture	9.3	Percent		11/15/2018 3:00:00 PM	TGT	%moisture	

Sample Number	181113061-006	**Sampling Date**	11/12/2018	**Date/Time Received**	11/13/2018 11:12 AM
Client Sample ID	1811634-006A/SOUTH AREA 02			**Extraction Date**	11/14/2018
Matrix	Soil	**Sampling Time**	11:10 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	ND	mg/kg	25	11/16/2018 1:03:00 PM	TGT	GC/FID	
%moisture	9.7	Percent		11/15/2018 3:00:00 PM	TGT	%moisture	

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 181113061
Project Name: 1811634

Analytical Results Report

Sample Number 181113061-007 **Sampling Date** 11/12/2018 **Date/Time Received** 11/13/2018 11:12 AM
Client Sample ID 1811634-007A/WASH AREA 02 **Extraction Date** 11/14/2018
Matrix Soil **Sampling Time** 11:15 AM
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	227	mg/kg	25	11/16/2018 1:15:00 PM	TGT	GC/FID	
%moisture	11.1	Percent		11/15/2018 3:00:00 PM	TGT	%moisture	

Sample Number 181113061-008 **Sampling Date** 11/12/2018 **Date/Time Received** 11/13/2018 11:12 AM
Client Sample ID 1811634-008A/STOCK PILE AREA 02 **Extraction Date** 11/14/2018
Matrix Soil **Sampling Time** 11:20 AM
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	66.7	mg/kg	25	11/16/2018 1:28:00 PM	TGT	GC/FID	
%moisture	3.4	Percent		11/15/2018 3:00:00 PM	TGT	%moisture	

Authorized Signature

Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 181113061
Project Name: 1811634

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Methanol	280	mg/L	250	112.0	60-130	11/14/2018	11/15/2018

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
181113061-006	Methanol	ND	523	mg/kg	500	104.6	50-150	11/14/2018	11/15/2018

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Methanol	483	mg/kg	500	96.6	8.0	0-25	11/14/2018	11/15/2018

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Methanol	ND	mg/kg	25	11/14/2018	11/15/2018

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Harvest | Work Order Number: 1811634 | RcptNo: 1

Received By: **Jazzmine Burkhead** 11/13/2018 8:00:00 AM

Completed By: **Anne Thorne** 11/13/2018 9:48:13 AM

Reviewed By: AT 11/13/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to 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 container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for 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. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

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 ☐ In Person	
Regarding:			
Client Instructions:			

16. Additional remarks:

DUE TO RUSH TAT, CW SHIPPED SAMPLES DIRECTLY TO ANATEK/at 11/13/18

17. **Cooler Information**

Chain-of-Custody Record

Client: Harvest Midstream

Mailing Address: 1755 Arroyo DR
Bloomfield NM 87413

Phone #: 505-486-4966

email or Fax#: hsandoval@harvest.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush ASAP

Project Name: 2Nd set of sample
TRUNK M Methanol

Project #:

Project Manager:
Monica Sandoval

Sampler: Morgan Killion

On Ice: ☑ Yes ☐ No

Sample Temperature: 3.2

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1811634	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Methanol				Air Bubbles (Y or N)
11/12/18	1030	soil	TRUNK AREA 01-02	1-4oz	Cool	001												X				
11/12/18	1040	soil	North AREA 01-02	1-4oz		002												X				
11/12/18	1045	soil	North AREA 02-02	1-4oz		003												X				
11/12/18	1050	soil	middle AREA 01-02	1-4oz		004												X				
11/12/18	1100	soil	middle AREA 02-02	1-4oz		005												X				
11/12/18	1110	soil	South AREA 02	1-4oz		006												X				
11/12/18	1115	soil	Wash AREA 02	1-4oz		007												X				
11/12/18	1120	soil	stock Pile AREA 02	1-4oz		008												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/12/18	1336	Morgan Killion	Christine Walker	11/12/18	1336
11/12/18	1655	Christine Walker	Jaycee Burkhart	11/13/18	0800

Remarks: COC via courier samples Analytic to HE by CW 11/13/18

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

November 30, 2018

Monica Sandoval
Harvest
1755 Arroyo Dr.
Bloomfield, NM 87413
TEL: (505) 632-4475
FAX

RE: Trunk M Methanol 3rd Round OrderNo.: 1811C41

Dear Monica Sandoval:

Hall Environmental Analysis Laboratory received 1 sample(s) on 11/27/2018 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
4901 Hawkins NE
Albuquerque, NM 87109

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504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client:	HALL ENVIRONMENTAL ANALYSIS LAB	**Batch #:**	181127033
Address:	4901 HAWKINS NE SUITE D ALBUQUERQUE, NM 87109	**Project Name:**	1811C41
Attn:	ANDY FREEMAN		

Analytical Results Report

Sample Number	181127033-001	**Sampling Date**	11/26/2018	**Date/Time Received**	11/27/2018 11:01 AM
Client Sample ID	1811C41-001A/MIDDLE AREA 02-03 COMPOSITE			**Extraction Date**	11/28/2018
Matrix	Soil	**Sampling Time**	8:45 AM		
Comments					

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Methanol	ND	mg/kg	25	11/29/2018 12:35:00 PM	RPR	GC/FID	
%moisture	7.2	Percent		11/29/2018 11:25:00 AM	RPR	%moisture	

Authorized Signature

Todd Taruscio, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

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Client: HALL ENVIRONMENTAL ANALYSIS LAB
Address: 4901 HAWKINS NE SUITE D
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Batch #: 181127033
Project Name: 1811C41

Analytical Results Report

Quality Control Data

Lab Control Sample

Parameter	LCS Result	Units	LCS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
Methanol	241	mg/L	250	96.4	60-130	11/28/2018	11/29/2018

Lab Control Sample Duplicate

Parameter	LCSD Result	Units	LCSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Methanol	249	mg/L	250	99.6	3.3	0-25	11/28/2018	11/29/2018

Matrix Spike

Sample Number	Parameter	Sample Result	MS Result	Units	MS Spike	%Rec	AR %Rec	Prep Date	Analysis Date
181127033-001	Methanol	ND	482	mg/kg	500	96.4	50-150	11/28/2018	11/29/2018

Matrix Spike Duplicate

Parameter	MSD Result	Units	MSD Spike	%Rec	%RPD	AR %RPD	Prep Date	Analysis Date
Methanol	452	mg/kg	500	90.4	6.4	0-25	11/28/2018	11/29/2018

Method Blank

Parameter	Result	Units	PQL	Prep Date	Analysis Date
Methanol	ND	mg/kg	25	11/28/2018	11/29/2018

AR	Acceptable Range
ND	Not Detected
PQL	Practical Quantitation Limit
RPD	Relative Percentage Difference

Comments:

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; FL(NELAP):E87893; ID:ID00013; MT:CERT0028; NM: ID00013;NV:ID00013; OR:ID200001-002; WA:C595
Certifications held by Anatek Labs WA: EPA:WA00169; ID:WA00169; WA:C585; MT:Cert0095; FL(NELAP): E871099

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Harvest | Work Order Number: 1811C41 | RcptNo: 1

Received By: Anne Thorne 11/27/2018 7:00:00 AM Anne Thorne

Completed By: Anne Thorne 11/27/2018 8:42:30 AM Anne Thorne

Reviewed By: AT 11/27/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	FedEx		

Log In

3. Was an attempt made to 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 container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for 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. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: AT 11/27/18 (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

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 ☐ In Person
Regarding:			
Client Instructions:			

16. Additional remarks:

DUE TO RUSH TAT, CW SHIPPED SAMPLE DIRECTLY TO ANATEK/at 11/27/18

17. **Cooler Information**

Chain-of-Custody Record

Client: Harvest Mid Stream

Mailing Address: 1755 ARROYO DR
Bloom Field NM 87413

Phone #: 505-632-1852

email or Fax#: MScndoval@HarvestMidStream.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time:
☐ Standard ☑ Rush ASAP 3rd Round

Project Name: TRUNK M Methanol

Project #:

Project Manager: MonicaSandoval

Sampler: Morgan Killion

On Ice: ☑ Yes ☐ No

Sample Temperature:

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1811641	BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions (F,Cl,NO_3,NO_2,PO_4,SO_4)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Methanol				Air Bubbles (Y or N)
11/26/18	8:45	soil	Middle Area 02-03 composite	1-402	ICE	001												X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
11/26/18	1509	Morgan Killion		11/26/18	1509
11/26/18	1600			11/27/18	0700

Remarks:

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.


Post Clean up

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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

NMOCD
JAN 25 2019
DISTRICT III

Release Notification

Responsible Party

Responsible Party	Harvest Four Corners, LLC	OGRID	37388
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	khong@harvestmidstream.com	Incident # *(assigned by OCD)*	NCS1904353014
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413		

Location of Release Source

Latitude 36.811634 Longitude -107.403965
(NAD 83 in decimal degrees to 5 decimal places)

Site Name 30-5	Site Type Compressor Station
Date Release Discovered 1/5/2019	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
L	18	30N	5W	Rio Arriba

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) 51	Volume Recovered (Mcf) 0
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Extreme temperatures and liquids in the line caused the supply line to the ESD to freeze and fail open.

Upon discovery, the release was immediately stopped.

(9)

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: [signature] Date: 1/18/2019

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: OCD Date: 1/25/19

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Site Assessment/Characterization

This information must be provided to the appropriate district office no later than 90 days after the release discovery date.

What is the shallowest depth to groundwater beneath the area affected by the release?	_____ (ft bgs)
Did this release impact groundwater or surface water?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a continuously flowing watercourse or any other significant watercourse?	☐ Yes ☐ No
Are the lateral extents of the release within 200 feet of any lakebed, sinkhole, or playa lake (measured from the ordinary high-water mark)?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of an occupied permanent residence, school, hospital, institution, or church?	☐ Yes ☐ No
Are the lateral extents of the release within 500 horizontal feet of a spring or a private domestic fresh water well used by less than five households for domestic or stock watering purposes?	☐ Yes ☐ No
Are the lateral extents of the release within 1000 feet of any other fresh water well or spring?	☐ Yes ☐ No
Are the lateral extents of the release within incorporated municipal boundaries or within a defined municipal fresh water well field?	☐ Yes ☐ No
Are the lateral extents of the release within 300 feet of a wetland?	☐ Yes ☐ No
Are the lateral extents of the release overlying a subsurface mine?	☐ Yes ☐ No
Are the lateral extents of the release overlying an unstable area such as karst geology?	☐ Yes ☐ No
Are the lateral extents of the release within a 100-year floodplain?	☐ Yes ☐ No
Did the release impact areas **not** on an exploration, development, production, or storage site?	☐ Yes ☐ No

Attach a comprehensive report (electronic submittals in .pdf format are preferred) demonstrating the lateral and vertical extents of soil contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.

Characterization Report Checklist: ***Each of the following items must be included in the report.***

- ☐ Scaled site map showing impacted area, surface features, subsurface features, delineation points, and monitoring wells.
- ☐ Field data
- ☐ Data table of soil contaminant concentration data
- ☐ Depth to water determination
- ☐ Determination of water sources and significant watercourses within ½-mile of the lateral extents of the release
- ☐ Boring or excavation logs
- ☐ Photographs including date and GIS information
- ☐ Topographic/Aerial maps
- ☐ Laboratory data including chain of custody

If the site characterization report does not include completed efforts at remediation of the release, the report must include a proposed remediation plan. That plan must include the estimated volume of material to be remediated, the proposed remediation technique, proposed sampling plan and methods, anticipated timelines for beginning and completing the remediation. The closure criteria for a release are contained in Table 1 of 19.15.29.12 NMAC, however, use of the table is modified by site- and release-specific parameters.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
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Application ID	

Remediation Plan

Remediation Plan Checklist: ***Each of the following items must be included in the plan.***

- ☐ Detailed description of proposed remediation technique
- ☐ Scaled sitemap with GPS coordinates showing delineation points
- ☐ Estimated volume of material to be remediated
- ☐ Closure criteria is to Table 1 specifications subject to 19.15.29.12(C)(4) NMAC
- ☐ Proposed schedule for remediation (note if remediation plan timeline is more than 90 days OCD approval is required)

Deferral Requests Only: ***Each of the following items must be confirmed as part of any request for deferral of remediation.***

☐ Contamination must be in areas immediately under or around production equipment where remediation could cause a major facility deconstruction.

☐ Extents of contamination must be fully delineated.

☐ Contamination does not cause an imminent risk to human health, the environment, or groundwater.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: _____ Title: _____

Signature: _____ Date: _____

email: _____ Telephone: _____

OCD Only

Received by: _____ Date: _____

☐ Approved ☐ Approved with Attached Conditions of Approval ☐ Denied ☐ Deferral Approved

Signature: _____ Date: _____

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☐ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☐ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☐ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☐ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 1/18/2019

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: OCD Date: 2/12/19

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date: 2/12/19

Printed Name: Cory Title: Environmental Spec.

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

Harvest Midstream – 30-5 ESD
Release Date: 1/5/2019
Incident Number:

Executive Summary

On January 5, 2019, the Harvest Midstream – 30-5 facility experienced an Emergency Shutdown (ESD) and the ESD vent valve lifted, releasing natural gas to the atmosphere. The ESD valve activation was caused by a freeze in the supply line. Upon arrival of the Harvest employee, the release was immediately stopped.

As this was a gas release only, with no liquids associated, no remediation was required and no confirmation samples were collected.

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

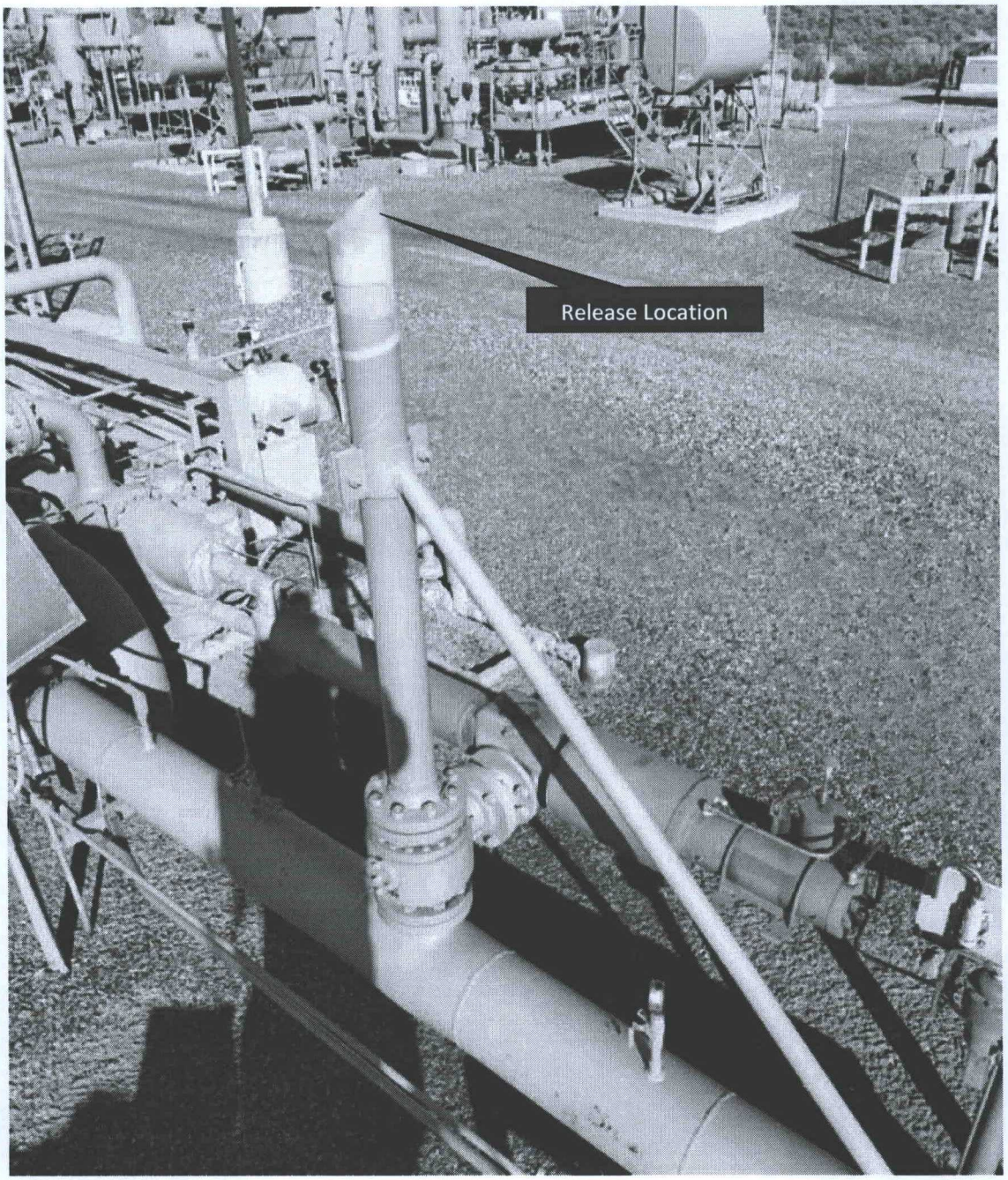
Harvest Midstream – 30-5 ESD
Release Date: 1/5/2019
Incident Number:

Site Map and Sampling Diagram

Harvest Four Corners, LLC
1755 Arroyo Drive
Bloomfield, NM 87413
(505) 632-4600
www.harvestmidstream.com

Harvest Midstream – 30-5 ESD
Release Date: 1/5/2019
Incident Number:

Photographs



District I
1625 N. French Dr., Hobbs, NM 88240
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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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NCS1903148079
District RP	
Facility ID	FSL1424834197
Application ID	

Release Notification

Responsible Party

NMOCD
FEB 15 2019
DISTRICT III

Responsible Party	Harvest Four Corners, LLC	OGRID	37388
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	khong@harvestmidstream.com	Incident # *(assigned by OCD)*	NCS1903148079
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413		

Location of Release Source

Latitude 36.484991 Longitude -107.311031
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Lateral H-20	Site Type Pipeline
Date Release Discovered 1/30/2019	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
K	13	26N	5W	Rio Arriba

Surface Owner: ☐ State ☐ Federal ☒ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☒ Crude Oil	Volume Released (bbls) 30	Volume Recovered (bbls) 30
☒ Produced Water	Volume Released (bbls) 30	Volume Recovered (bbls) 30
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) 100	Volume Recovered (Mcf) 0
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release
A line leak was discovered on the Lateral H-20 pipeline.

Upon discovery, the release was immediately stopped.

Jicarilla tribe has been notified on the release.

2

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 2/14/2019

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: Vanessa Fields Date: 2/15/2019

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
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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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	NVF1906328387
District RP	FSX1428341971
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	Harvest Four Corners, LLC	OGRID	37388
Contact Name	Kijun Hong	Contact Telephone	(505) 632-4475
Contact email	khong@harvestmidstream.com	Incident # *(assigned by OCD)*	
Contact mailing address	1755 Arroyo Dr., Farmington, NM 87413		

Location of Release Source

Latitude 36.776682 Longitude -107.682651
(NAD 83 in decimal degrees to 5 decimal places)

Site Name Manzanares	Site Type Compressor Station
Date Release Discovered 2/7/2019	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
N	28	30N	8W	Rio Arriba

NMOCD
FEB 22 2019
DISTRICT III

Surface Owner: ☐ State ☒ Federal ☐ Tribal ☐ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☐ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) 460	Volume Recovered (Mcf) 0
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Extreme temperatures and liquids in the line caused the supply line to the discharge PRV to freeze and fail.

Upon discovery, the release was immediately stopped. No liquids were associated with this release.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☐ Yes ☒ No	If YES, for what reason(s) does the responsible party consider this a major release?
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

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Printed Name: Kijun Hong Title: Environmental Specialist

Signature: [signature] Date: 2/22/2019

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: Vanessa Fields Date: 2/22/2019

District I
1625 N. French Dr., Hobbs, NM 88240
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811 S. First St., Artesia, NM 88210
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State of New Mexico
Energy Minerals and Natural Resources Department

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

Form C-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

NMOCD
MAR 07 2019
DISTRICT III

Release Notification

Responsible Party

Responsible Party	**Harvest Four Corners, LLC**	OGRID	**37388**
Contact Name	**Kijun Hong**	Contact Telephone	**(505) 632-4475**
Contact email	**khong@harvestmidstream.com**	Incident # *(assigned by OCD)*	
Contact mailing address	**1755 Arroyo Dr., Farmington, NM 87413**	NVF1906649078	

Location of Release Source

Latitude **36.745799** Longitude **-107.443609**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **29-6-2**	Site Type **Compressor Station**
Date Release Discovered **2/18/2019**	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	**10**	**29N**	**6W**	**Rio Arriba**

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe) **Waste Water/ Storm Water**	Volume/Weight Released (provide units) **80 BBLs**	Volume/Weight Recovered (provide units) **80 BBLs**

Cause of Release

Due to high amounts of precipitation, the waste water tank overflowed into unlined secondary containment.

All free liquids have been recovered by vac truck.

(3)

District I
1625 N. French Dr., Hobbs, NM 88240
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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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible Party	**Harvest Four Corners, LLC**	OGRID	**37388**
Contact Name	**Kijun Hong**	Contact Telephone	**(505) 632-4475**
Contact email	**khong@harvestmidstream.com**	Incident # *(assigned by OCD)*	
Contact mailing address	**1755 Arroyo Dr., Farmington, NM 87413**		

Location of Release Source

Latitude **36.745799** Longitude **-107.443609**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **29-6-2**	Site Type **Compressor Station**
Date Release Discovered **12/18/2018**	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	**10**	**29N**	**6W**	**Rio Arriba**

NMOCD
MAR 07 2019
DISTRICT III

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:*)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☐ Produced Water	Volume Released (bbls)	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls)	Volume Recovered (bbls)
☐ Natural Gas	Volume Released (Mcf)	Volume Recovered (Mcf)
☒ Other (describe) **Waste Water/ Storm Water**	Volume/Weight Released (provide units) **80 BBLs**	Volume/Weight Recovered (provide units) **80 BBLs**

Cause of Release

Due to high amounts of precipitation, the waste water tank overflowed into unlined secondary containment.

All free liquids have been recovered by vac truck.

State of New Mexico
Oil Conservation Division

Incident ID	
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **Unauthorized release of a volume, excluding gases, of 25 barrels or more.**
If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)? **Immediate notification was given by email to Vanessa Fields, Cory Smith, and Jim Griswold of the NMOCD by Kijun Hong on 2/18/2019 @ 9:23 PM.**	

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 3/5/2018

email: khong@harvestmidstream.com Telephone: 505-436-8457

OCD Only

Received by: Vanessa Fields Date: 3/7/2019

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
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1000 Rio Brazos Road, Aztec, NM 87410
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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-141
Revised August 24, 2018
Submit to appropriate OCD District office

Incident ID	*NCS 1900334230*
District RP	
Facility ID	
Application ID	

NMOCD
MAR 2 3 2019
DISTRICT III

Release Notification

Responsible Party

Responsible Party	**Harvest Four Corners, LLC**	OGRID	
Contact Name	**Kijun Hong**	Contact Telephone	**(505) 632-4475**
Contact email	**khong@harvestmidstream.com**	Incident # *(assigned by OCD)*	*NCS 1900334230*
Contact mailing address	**1755 Arroyo Dr., Farmington, NM 87413**		

Location of Release Source

Latitude **36.449293** Longitude **-107.392803**
(NAD 83 in decimal degrees to 5 decimal places)

Site Name **Lateral H-8**	Site Type **Pipeline**
Date Release Discovered **11/29/2018**	API# *(if applicable)*

Unit Letter	Section	Township	Range	County
A	**31**	**26N**	**5W**	**Rio Arriba**

Surface Owner: ☐ State ☐ Federal ☐ Tribal ☒ Private (*Name:* _____)

Nature and Volume of Release

Material(s) Released (Select all that apply and attach calculations or specific justification for the volumes provided below)

☐ Crude Oil	Volume Released (bbls)	Volume Recovered (bbls)
☒ Produced Water	Volume Released (bbls) **0.24**	Volume Recovered (bbls)
	Is the concentration of dissolved chloride in the produced water >10,000 mg/l?	☐ Yes ☒ No
☐ Condensate	Volume Released (bbls) **0.71**	Volume Recovered (bbls)
☒ Natural Gas	Volume Released (Mcf) **22.97**	Volume Recovered (Mcf) **0**
☐ Other (describe)	Volume/Weight Released (provide units)	Volume/Weight Recovered (provide units)

Cause of Release

Pipeline failure due to corrosion.

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State of New Mexico
Oil Conservation Division

Incident ID	*NCS 1900334230*
District RP	
Facility ID	
Application ID	

Was this a major release as defined by 19.15.29.7(A) NMAC? ☒ Yes ☐ No	If YES, for what reason(s) does the responsible party consider this a major release? **May with reasonable probability reach a watercourse. Possible ground water impacts.**

If YES, was immediate notice given to the OCD? By whom? To whom? When and by what means (phone, email, etc)?

Yes, Monica Sandoval spoke with Vanessa Fields via phone on 11/29/2018 @ 7:35PM. Kijun Hong notified Cory Smith, Vanessa Fields, and Jim Griswold (OCD) by email on 11/30/2018 @ 12:34PM.

Initial Response

The responsible party must undertake the following actions immediately unless they could create a safety hazard that would result in injury

☒ The source of the release has been stopped.
☒ The impacted area has been secured to protect human health and the environment.
☒ Released materials have been contained via the use of berms or dikes, absorbent pads, or other containment devices.
☒ All free liquids and recoverable materials have been removed and managed appropriately.

If all the actions described above have not been undertaken, explain why:

Per 19.15.29.8 B. (4) NMAC the responsible party may commence remediation immediately after discovery of a release. If remediation has begun, please attach a narrative of actions to date. If remedial efforts have been successfully completed or if the release occurred within a lined containment area (see 19.15.29.11(A)(5)(a) NMAC), please attach all information needed for closure evaluation.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Printed Name: **Kijun Hong** Title: **Environmental Specialist**

Signature: Date: **12/17/2018**

email: **khong@harvestmidstream.com** Telephone: **505-436-8457**

OCD Only

Received by: Date:

State of New Mexico
Oil Conservation Division

Incident ID	NCS 1900334230
District RP	
Facility ID	
Application ID	

Closure

The responsible party must attach information demonstrating they have complied with all applicable closure requirements and any conditions or directives of the OCD. This demonstration should be in the form of a comprehensive report (electronic submittals in .pdf format are preferred) including a scaled site map, sampling diagrams, relevant field notes, photographs of any excavation prior to backfilling, laboratory data including chain of custody documents of final sampling, and a narrative of the remedial activities. Refer to 19.15.29.12 NMAC.

Closure Report Attachment Checklist: ***Each of the following items must be included in the closure report.***

☒ A scaled site and sampling diagram as described in 19.15.29.11 NMAC

☒ Photographs of the remediated site prior to backfill or photos of the liner integrity if applicable (Note: appropriate OCD District office must be notified 2 days prior to liner inspection)

☒ Laboratory analyses of final sampling (Note: appropriate ODC District office must be notified 2 days prior to final sampling)

☒ Description of remediation activities

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to OCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the OCD does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to groundwater, surface water, human health or the environment. In addition, OCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations. The responsible party acknowledges they must substantially restore, reclaim, and re-vegetate the impacted surface area to the conditions that existed prior to the release or their final land use in accordance with 19.15.29.13 NMAC including notification to the OCD when reclamation and re-vegetation are complete.

Printed Name: Kijun Hong Title: Environmental Specialist

Signature: Date: 3/22/2019

email: khong@harvestmidstream.com Telephone: 505-632-4475

OCD Only

Received by: Vanessa Fields Date: 3/23/2019

Closure approval by the OCD does not relieve the responsible party of liability should their operations have failed to adequately investigate and remediate contamination that poses a threat to groundwater, surface water, human health, or the environment nor does not relieve the responsible party of compliance with any other federal, state, or local laws and/or regulations.

Closure Approved by: Date: 3/26/2019

Printed Name: Vanessa Fields Title: Environmental Specialist

Executive Summary

Harvest Four Corners, LLC (Harvest) presents the following report summarizing remediation and soil sampling activities at the Lateral H-8 pipeline release (Site) located in Unit A, Section 31, Township 26 North, Range 5 West, in Rio Arriba County, New Mexico (Figure 1). On November 29, 2018, Harvest discovered a release due to corrosion on the pipeline. Harvest estimated 22.97 thousand cubic feet (MCF) of natural gas, 0.24 barrels (bbl) of produced water, and 0.71 bbls of condensate were released, impacting approximately 72 cubic yards of soil. The release occurred on private land within the Jicarilla Apache Reservation. Harvest notified the Jicarilla Oil and Gas Administration and the New Mexico Oil Conservation Division (NMOCD) within 24 hours via phone and sent a follow up email within 48 hours of discovery of the release. Harvest submitted a Release Notification and Corrective Action Form C-141 to the NMOCD on December 17, 2018. The NMOCD assigned the release incident number NCS1900334230.

Due to impacted soil observed directly adjacent to Tapicito Creek, which is a significant watercourse, the following NMOCD Table 1 closure criteria apply: 10 milligrams per kilogram (mg/kg) benzene; 50 mg/kg total benzene, toluene, ethylbenzene, and total xylenes (BTEX); 100 mg/kg total petroleum hydrocarbons (TPH); and 600 mg/kg chloride.

Harvest repaired the pipeline and excavated approximately 72 yards of impacted soil. The final excavation was approximately 22 feet by 16 feet with an average depth of 4 feet below ground surface. All impacted soil was properly disposed of at Envirotech Landfarm in San Juan County, New Mexico.

On December 6, 2018, Harvest collected four 5-point composite soil samples from the sidewalls of the excavation. Hopson Sandoval and Jason Sandoval with the Jicarilla Apache Environmental Protection Office (EPO) were present during the soil sampling. A map of the sample locations is included as Attachment 1.

The soil samples were shipped following chain-of-custody procedures to Hall Environmental Analysis Laboratory in Albuquerque, New Mexico for analysis of BTEX by United States Environmental Protection Agency (USEPA) Method 8021B, TPH-gasoline range organics (GRO), TPH-diesel range organics (DRO), and TPH- motor oil range organics (MRO) by USEPA Method 8015M/D, and chloride by USEPA Method 300.0.

Laboratory analytical results indicated that benzene, BTEX, TPH, and chloride concentrations were compliant with the NMOCD Table 1 closure criteria in all soil samples collected. A table with laboratory analytical data is included as Attachment 2 and copies of the laboratory analytical results are included as Attachment 3.

Upon receiving the laboratory analytical results, Harvest submitted them to EPO via email. Hopson Sandoval responded via on email on December 10, 2018, stating that the EPO authorized Harvest to backfill the excavation (Attachment 4).

The EPO approved closure of the site because all soil samples collected from the sidewalls of the excavation were compliant with the NMOCD Table 1 closure criteria. Harvest requests no further action from the NMOCD for incident number NCS1827631854. An updated NMOCD Form C-141 is included with this report.

ATTACHMENT 1

FIELD MAP

Remediation Excavation and Sampling Form

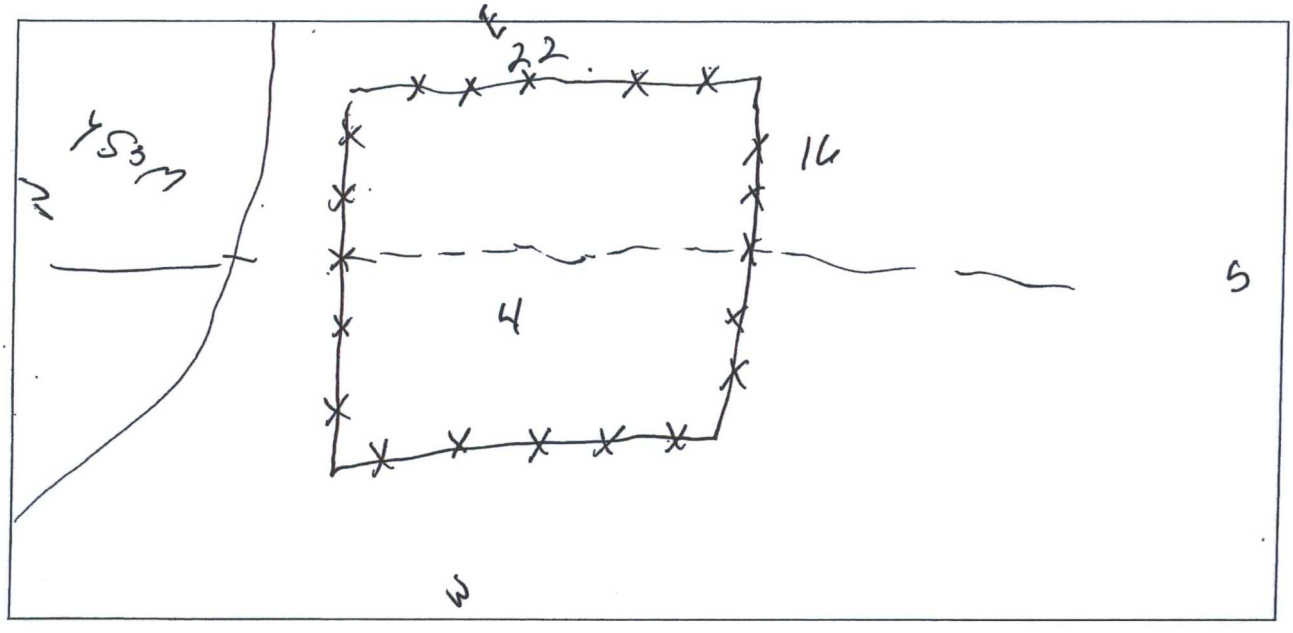
Site Name Lat H-8 Line Leak

Excavation Dimensions (feet)

22 Length 16 Width 4' Depth

Excavation Diagram and Sample Locations

(Depict notable site features, excavation extents, visual observations, sample locations, north arrow, etc.)



Sample Information

OCD Witness Sampling Yes or (No)

Agency(s) Representative(s) Hobson Sandoval & Jason Sandoval

Sample ID	Sample Date	Type (Composite, Grab)	Location (Floor, Sidewall)	Comments
	12-6-18	composite	sidewall	
	12-6-18	composite	sidewall	
	12-6-18	composite	sidewall	
	12-6-18	composite	sidewall	
				We Hauled 72
				Yard to disposal
				ENVIROTECH

Hobson said when we talk about Backfilling the site That as the walls came back NON dect that we proble Not worry about the well. This conversation took place on or around 12-10-18 When we got permission to Backfill

ATTACHMENT 2

SOIL ANALYTICAL RESULTS

TABLE 1
SOIL ANALYTICAL RESULTS
LATERAL H-8 PIPELINE RELEASE
INCIDENT NUMBER NCS1900334230
RIO ARRIBA COUNTY, NEW MEXICO
HARVEST FOUR CORNERS, LLC

Sample Name	Sample Depth (feet bgs)	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes (mg/kg)	Total BTEX (mg/kg)	Gasoline Range Organics (mg/kg)	Diesel Range Organics (mg/kg)	Motor Oil Range Organics (mg/kg)	TPH (mg/kg)	Chloride (mg/kg)
North Wall Composite	4	12/6/18	<0.016	<0.031	<0.031	<0.062	<0.062	<3.1	<9.9	<49	<49	43
West Wall Composite	4	12/6/18	<0.015	<0.030	<0.030	<0.060	<0.060	<3.0	<9.8	<49	<49	<30
South Wall Composite	4	12/6/18	<0.015	<0.029	<0.029	<0.059	<0.059	<2.9	<9.8	<49	<49	30
East Wall Composite	4	12/6/18	<0.016	<0.032	<0.032	<0.064	<0.064	<3.2	<9.7	<49	<49	200
NMOCD Table 1 Closure Criteria			10	NE	NE	NE	50	NE	NE	NE	100	600

Notes:
bgs - below ground surface
BTEX - benzene, toluene, ethylbenzene, and total xylenes
mg/kg - milligrams per kilogram
NE - Not established
NMOCD - New Mexico Oil Conservation Division
TPH - total petroleum hydrocarbons
< - indicates result is below the laboratory reporting limit

ATTACHMENT 3

LABORATORY ANALYTICAL REPORTS

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

December 10, 2018

Kijun Hong
Harvest
1755 Arroyo Dr.
Bloomfield, NM 87413
TEL: (505) 632-4475
FAX

RE: Lateral H 8 OrderNo.: 1812374

Dear Kijun Hong:

Hall Environmental Analysis Laboratory received 4 sample(s) on 12/7/2018 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
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report
Lab Order **1812374**
Date Reported: **12/10/2018**

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Project: Lateral H 8
Lab ID: 1812374-001 **Matrix:** SOIL

Client Sample ID: North Wall Composite
Collection Date: 12/6/2018 10:00:00 AM
Received Date: 12/7/2018 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	43	30		mg/Kg	20	12/7/2018 11:26:35 AM	41969
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.9		mg/Kg	1	12/7/2018 11:08:00 AM	41962
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/7/2018 11:08:00 AM	41962
Surr: DNOP	93.2	50.6-138		%Rec	1	12/7/2018 11:08:00 AM	41962
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.1		mg/Kg	1	12/7/2018 10:26:38 AM	41948
Surr: BFB	101	73.8-119		%Rec	1	12/7/2018 10:26:38 AM	41948
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	12/7/2018 10:26:38 AM	41948
Toluene	ND	0.031		mg/Kg	1	12/7/2018 10:26:38 AM	41948
Ethylbenzene	ND	0.031		mg/Kg	1	12/7/2018 10:26:38 AM	41948
Xylenes, Total	ND	0.062		mg/Kg	1	12/7/2018 10:26:38 AM	41948
Surr: 4-Bromofluorobenzene	101	80-120		%Rec	1	12/7/2018 10:26:38 AM	41948

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Project: Lateral H 8
Lab ID: 1812374-002 **Matrix:** SOIL

Client Sample ID: West Wall Composite
Collection Date: 12/6/2018 10:10:00 AM
Received Date: 12/7/2018 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	ND	30		mg/Kg	20	12/7/2018 11:38:59 AM	41969
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/7/2018 11:29:54 AM	41962
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/7/2018 11:29:54 AM	41962
Surr: DNOP	95.4	50.6-138		%Rec	1	12/7/2018 11:29:54 AM	41962
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.0		mg/Kg	1	12/7/2018 10:50:11 AM	41948
Surr: BFB	94.7	73.8-119		%Rec	1	12/7/2018 10:50:11 AM	41948
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.015		mg/Kg	1	12/7/2018 10:50:11 AM	41948
Toluene	ND	0.030		mg/Kg	1	12/7/2018 10:50:11 AM	41948
Ethylbenzene	ND	0.030		mg/Kg	1	12/7/2018 10:50:11 AM	41948
Xylenes, Total	ND	0.060		mg/Kg	1	12/7/2018 10:50:11 AM	41948
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/7/2018 10:50:11 AM	41948

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Project: Lateral H 8
Lab ID: 1812374-003 **Matrix:** SOIL

Client Sample ID: South Wall Composite
Collection Date: 12/6/2018 10:20:00 AM
Received Date: 12/7/2018 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	30	30		mg/Kg	20	12/7/2018 11:51:24 AM	41969
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.8		mg/Kg	1	12/7/2018 11:52:04 AM	41962
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/7/2018 11:52:04 AM	41962
Surr: DNOP	99.1	50.6-138		%Rec	1	12/7/2018 11:52:04 AM	41962
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	2.9		mg/Kg	1	12/7/2018 11:13:47 AM	41948
Surr: BFB	93.1	73.8-119		%Rec	1	12/7/2018 11:13:47 AM	41948
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.015		mg/Kg	1	12/7/2018 11:13:47 AM	41948
Toluene	ND	0.029		mg/Kg	1	12/7/2018 11:13:47 AM	41948
Ethylbenzene	ND	0.029		mg/Kg	1	12/7/2018 11:13:47 AM	41948
Xylenes, Total	ND	0.059		mg/Kg	1	12/7/2018 11:13:47 AM	41948
Surr: 4-Bromofluorobenzene	99.6	80-120		%Rec	1	12/7/2018 11:13:47 AM	41948

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Harvest
Project: Lateral H 8
Lab ID: 1812374-004 **Matrix:** SOIL

Client Sample ID: East Wall Composite
Collection Date: 12/6/2018 10:30:00 AM
Received Date: 12/7/2018 9:00:00 AM

Analyses	Result	PQL	Qual	Units	DF	Date Analyzed	Batch
EPA METHOD 300.0: ANIONS						Analyst: **MRA**	
Chloride	200	30		mg/Kg	20	12/7/2018 12:03:48 PM	41969
EPA METHOD 8015M/D: DIESEL RANGE ORGANICS						Analyst: **lrm**	
Diesel Range Organics (DRO)	ND	9.7		mg/Kg	1	12/7/2018 12:13:55 PM	41962
Motor Oil Range Organics (MRO)	ND	49		mg/Kg	1	12/7/2018 12:13:55 PM	41962
Surr: DNOP	92.8	50.6-138		%Rec	1	12/7/2018 12:13:55 PM	41962
EPA METHOD 8015D: GASOLINE RANGE						Analyst: **NSB**	
Gasoline Range Organics (GRO)	ND	3.2		mg/Kg	1	12/7/2018 11:37:28 AM	41948
Surr: BFB	95.6	73.8-119		%Rec	1	12/7/2018 11:37:28 AM	41948
EPA METHOD 8021B: VOLATILES						Analyst: **NSB**	
Benzene	ND	0.016		mg/Kg	1	12/7/2018 11:37:28 AM	41948
Toluene	ND	0.032		mg/Kg	1	12/7/2018 11:37:28 AM	41948
Ethylbenzene	ND	0.032		mg/Kg	1	12/7/2018 11:37:28 AM	41948
Xylenes, Total	ND	0.064		mg/Kg	1	12/7/2018 11:37:28 AM	41948
Surr: 4-Bromofluorobenzene	102	80-120		%Rec	1	12/7/2018 11:37:28 AM	41948

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

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1812374**

10-Dec-18

Client: Harvest
Project: Lateral H 8

Sample ID	**MB-41969**	SampType: **mblk**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**PBS**	Batch ID: **41969**			RunNo: **56164**					
Prep Date:	**12/7/2018**	Analysis Date: **12/7/2018**			SeqNo: **1877391**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	ND	1.5								

Sample ID	**LCS-41969**	SampType: **lcs**			TestCode: **EPA Method 300.0: Anions**					
Client ID:	**LCSS**	Batch ID: **41969**			RunNo: **56164**					
Prep Date:	**12/7/2018**	Analysis Date: **12/7/2018**			SeqNo: **1877392**		Units: **mg/Kg**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	14	1.5	15.00	0	94.0	90	110			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: **1812374**

Hall Environmental Analysis Laboratory, Inc.

10-Dec-18

Client: Harvest
Project: Lateral H 8

Sample ID **LCS-41962** SampType: **LCS** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **LCSS** Batch ID: **41962** RunNo: **56137**
Prep Date: **12/7/2018** Analysis Date: **12/7/2018** SeqNo: **1876105** 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	98.4	70	130			
Surr: DNOP	4.2		5.000		84.7	50.6	138			

Sample ID **MB-41962** SampType: **MBLK** TestCode: **EPA Method 8015M/D: Diesel Range Organics**
Client ID: **PBS** Batch ID: **41962** RunNo: **56137**
Prep Date: **12/7/2018** Analysis Date: **12/7/2018** SeqNo: **1876106** 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		100	50.6	138			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

WO#: **1812374**

Hall Environmental Analysis Laboratory, Inc.

10-Dec-18

Client: Harvest
Project: Lateral H 8

Sample ID **MB-41948**	SampType: **MBLK**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **PBS**	Batch ID: **41948**	RunNo: **56167**
Prep Date: **12/6/2018**	Analysis Date: **12/7/2018**	SeqNo: **1876979** 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	960		1000		96.1	73.8	119			

Sample ID **LCS-41948**	SampType: **LCS**	TestCode: **EPA Method 8015D: Gasoline Range**
Client ID: **LCSS**	Batch ID: **41948**	RunNo: **56167**
Prep Date: **12/6/2018**	Analysis Date: **12/7/2018**	SeqNo: **1876980** 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	80.1	123			
Surr: BFB	1100		1000		108	73.8	119			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1812374**

10-Dec-18

Client: Harvest
Project: Lateral H 8

Sample ID **MB-41948** SampType: **MBLK** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **PBS** Batch ID: **41948** RunNo: **56167**
Prep Date: **12/6/2018** Analysis Date: **12/7/2018** SeqNo: **1876984** 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-41948** SampType: **LCS** TestCode: **EPA Method 8021B: Volatiles**
Client ID: **LCSS** Batch ID: **41948** RunNo: **56167**
Prep Date: **12/6/2018** Analysis Date: **12/7/2018** SeqNo: **1876985** Units: **mg/Kg**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.98	0.025	1.000	0	98.0	80	120			
Toluene	1.0	0.050	1.000	0	102	80	120			
Ethylbenzene	1.0	0.050	1.000	0	103	80	120			
Xylenes, Total	3.1	0.10	3.000	0	104	80	120			
Surr: 4-Bromofluorobenzene	1.1		1.000		108	80	120			

Qualifiers:

*	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
D	Sample Diluted Due to Matrix	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits
ND	Not Detected at the Reporting Limit	P	Sample pH Not In Range
PQL	Practical Quanitative Limit	RL	Reporting Detection Limit
S	% Recovery outside of range due to dilution or matrix	W	Sample container temperature is out of limit as specified

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Harvest | Work Order Number: 1812374 | RcptNo: 1

Received By: Anne Thorne 12/7/2018 9:00:00 AM Anne Thorne

Completed By: Anne Thorne 12/7/2018 9:03:13 AM Anne Thorne

Reviewed By: ENM 12/7/18

Labeled by: AT 12/07/18

Chain of Custody

1. Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2. How was the sample delivered?	Courier		

Log In

3. Was an attempt made to 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 container(s)?	Yes ☑	No ☐	
6. Sufficient sample volume for 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. VOA vials have zero headspace?	Yes ☐	No ☐	No VOA Vials ☑
10. Were any sample containers received broken?	Yes ☐	No ☑	
11. Does paperwork match bottle labels? (Note discrepancies on chain of custody)	Yes ☑	No ☐	
12. Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
13. Is it clear what analyses were requested?	Yes ☑	No ☐	
14. Were all holding times able to be met? (If no, notify customer for authorization.)	Yes ☑	No ☐	

# of preserved bottles checked for pH: _____ (<2 or >12 unless noted)

Adjusted? _____

Checked by: _____

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 ☐ In Person

Regarding: _____

Client Instructions: _____

16. Additional remarks:

17. **Cooler Information**

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	1.0	Good	Yes			
2	1.0	Good	Yes			

Chain-of-Custody Record

Client: Harvest Midstream

Mailing Address: 1755 ARROYO DR
Bloomfield NM 87413

Phone #: 505 632-4475

email or Fax#: KHong@HarvestMidstream.com

QA/QC Package:
☐ Standard ☐ Level 4 (Full Validation)

Accreditation
☐ NELAP ☐ Other _____

☐ EDD (Type) _____

Turn-Around Time: Same day
☐ Standard ☑ Rush _____

Project Name: Lateral H-8

Project #:

Project Manager: KIJUN HONG

Sampler: Morgan Killion

On Ice: ☒ Yes ☐ No

Sample Temperature: 2 Cooler 10°C

A 12/07/18

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No.
12/6/18	1000	Soil	North wall Composite	1-4oz meoffice	Cool	001
12/6/18	1010	Soil	West wall Composite	1-4oz		002
12/6/18	1020	Soil	South wall Composite	1-4oz		003
12/6/18	1030	Soil	East wall Composite	1-4oz		004

Analysis Request

BTEX + MTBE + TMB's (8021)	BTEX + MTBE + TPH (Gas only)	TPH 8015B (GRO / DRO / MRO)	TPH (Method 418.1)	EDB (Method 504.1)	PAH's (8310 or 8270 SIMS)	RCRA 8 Metals	Anions ($F, Cl, NO_3, NO_2, PO_4, SO_4$)	8081 Pesticides / 8082 PCB's	8260B (VOA)	8270 (Semi-VOA)	Chloride				Air Bubbles (Y or N)
X		X									X				
X		X									X				
X		X									X				
X		X									X				

Date:	Time:	Relinquished by:	Received by:	Date	Time
12/6/18	1337	Morgan Killion		12/6/18	1337
12/6/18	1821			12/07/18	0900

Remarks: MorganKillion@yahoo.com

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.

HALL ENVIRONMENTAL ANALYSIS LABORATORY
www.hallenvironmental.com
4901 Hawkins NE - Albuquerque, NM 87109
Tel. 505-345-3975 Fax 505-345-4107

ATTACHMENT 4

CORRESPONDANCE WITH JICARILLA EPO

HS Hobson Sandoval <hsandoval2012@gmail.com> Kijun Hong; Jason Sandoval; Morgan Killion 1 12/10/2018

[EXTERNAL] Re: Lateral H-8 Preliminary Results

ARV IIDS image002.png .png File

Received, thank you. The labs are below OCD closure standard. Therefore, Jicarilla Apache Environmental Protection Office (EPO) authorizes you to back fill this site with clean clay soil from a pile just south of K Compressor. I commend Morgan Killion and his crew for a good job in the remediation of this site.

On Mon, Dec 10, 2018, 12:28 PM Kijun Hong <khong@harvestmidstream.com> wrote:

The linked image cannot be displayed. The file ma...

Kijun Hong | Harvest Midstream Company| Environmental Specialist | Four Corners
Office: 505-632-4475 | Cell: 505-436-8457 | 1755 Arroyo Dr., Bloomfield, NM 87413

ATTACHMENT 5

PHOTOGRAPHIC LOG