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	NRM2016457766
District RP	
Facility ID	
Application ID	

Release Notification

Responsible Party

Responsible	Party Hilco	orp Energy Compa	nny	OGRID 372171						
Contact Nan	ne Jennifer	Deal		Contact Telephone 505-801-6517						
Contact ema	il jdeal@hil	lcorp.com		Incident #	# NRM2016457766					
Contact mail	ing address	382 Road 3100,	Aztec NM 87410)	l					
			T 4:	c t	Dalaasa G	Y				
			Location							
Latitude 36.	850411		(NAD 92 in a	1 1 . 1	Longitude	-107.723201				
		Com 1 Pipeline (SE of Dawson Go	C 1)	Site Type	-				
Date Release	Discovered	6/3/2020			API# Clos	sest Well 30-045-27336				
Unit Letter	Section	Township	Range		Cou	inty				
M	31	31N	08W	San	Juan	inty				
Surface Owne	r: State	⊠ Federal □ T	ribal 🗌 Private	(Name:)				
			NT - 4	J T 7.	1	D.L				
			Nature an	ia vo	nume of	Release				
				ch calcula	tions or specific	c justification for the volumes provided below)				
Crude Oi		Volume Release	` /			Volume Recovered (bbls)				
Produced	Water	Volume Release	ed (bbls) 21			Volume Recovered (bbls) 0				
		Is the concentral produced water	tion of dissolved	chlorid	e in the Yes No					
Condensa	nte	Volume Release				Volume Recovered (bbls)				
☐ Natural C	as	Volume Release	ed (Mcf)			Volume Recovered (Mcf)				
Other (de	scribe)	Volume/Weigh	t Released (provi	de units	s) Volume/Weight Recovered (provide units)					
down the pip	~21 bbls of peline and co		Release traveled	~485ft,	off of a cliff	n weld on the pipeline. The operator isolated and blew f and traveled another 60ft and stopped. 0 bbls were				
		r	- 3		1 <i>O</i>					

	Page 2 of 6
Incident ID	NRM2016457766
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?	<u>>100</u> (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?								
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?								
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?								
Are the lateral extents of the release within 300 feet of a wetland?								
Are the lateral extents of the release overlying a subsurface mine?								
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 ver contamination associated with the release have been determined. Refer to 19.15.29.11 NMAC for specifics.	tical extents of soil							
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.

Received by OCD: 8/18/2020 10:00:40 AM State of New Mexico
Page 4 Oil Conservation Division

Page 3 of 65

Incident ID	NRM2016457766
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:Jennifer Deal	Title:Environmental Specialist							
Signature: Genn fer Deal	Date:8/18/2020							
email:jdeal@hilcorp.com	Telephone:(505) 324-5128							
OCD Only								
Received by:	Date:							

Page 4 of 65

Incident ID NRM2016457766

District RP
Facility ID
Application ID

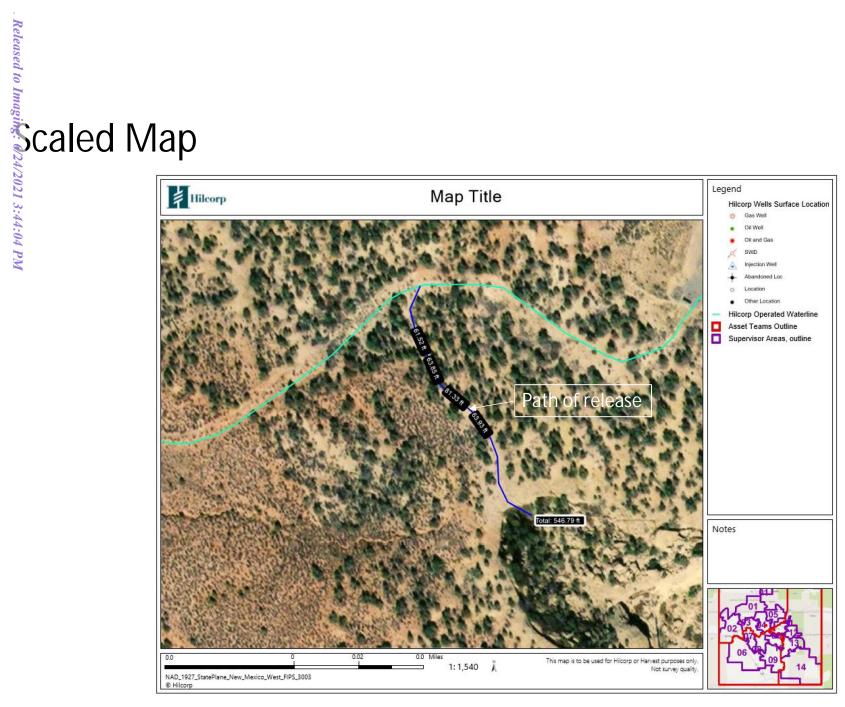
Closure

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.

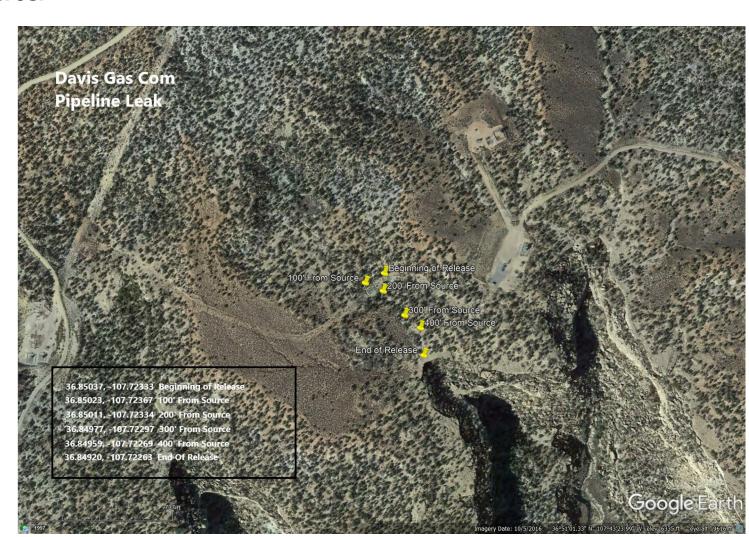
☐ A scaled site and sampling diagram as described in 19.15.29.11 N	NMAC
Photographs of the remediated site prior to backfill or photos of must be notified 2 days prior to liner inspection)	the liner integrity if applicable (Note: appropriate OCD District office
☐ Laboratory analyses of final sampling (Note: appropriate ODC D	istrict 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 and regulations all operators are required to report and/or file certain re may endanger public health or the environment. The acceptance of a C should their operations have failed to adequately investigate and remed human health or the environment. In addition, OCD acceptance of a C compliance with any other federal, state, or local laws and/or regulation restore, reclaim, and re-vegetate the impacted surface area to the condit accordance with 19.15.29.13 NMAC including notification to the OCD Printed Name:	clease notifications and perform corrective actions for releases which C-141 report by the OCD does not relieve the operator of liability interest contamination that pose a threat to groundwater, surface water, -141 report does not relieve the operator of responsibility for ins. The responsible party acknowledges they must substantially thions that existed prior to the release or their final land use in when reclamation and re-vegetation are complete. Title: Environmental Specialist
OCD Only	
Received by:	Date:
	iability should their operations have failed to adequately investigate and er, human health, or the environment nor does not relieve the responsible egulations.
Closure Approved by:	Date: 6/24/2021
Printed Name: Environmental Specialist	Title: Cory

Received by OCD: 8/18/2020 10:00:40/AM

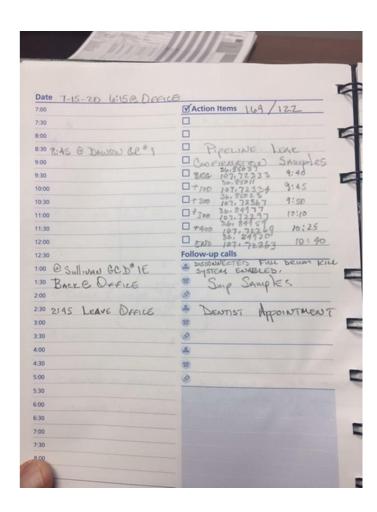


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Field Data



Released to Imaging: 6/24/2021 3:44:04 PM



Data table of soil contaminant concentration data

BI	

HILCORP ENERGY - L48 WEST

				HILCORP E.	EKGI - E46	WEST						
Soil Sample Identification	Sample Date	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Total Xylenes	Total BTEX	Chlorides (mg/kg)	GRO (mg/kg)	DRO (mg/kg)	MRO (mg/kg)	MRO+DRO (mg/kg)	TPH (mg/kg)
Beginning	7/15/2020	< 0.0005	<0.005	< 0.0005	0.00454	0.0045	4020.0	<0.100	20.40	29.40	49.80	49.80
+100'	7/15/2020	< 0.0005	< 0.005	< 0.0005	< 0.0015	< 0.005	4090.0	< 0.100	6.96	12.90	19.86	19.86
+200'	7/15/2020	< 0.0005	< 0.005	< 0.0005	< 0.0015	< 0.005	<20	<0.100	6.41	11.80	18.21	18.21
+300'	7/15/2020	< 0.0005	< 0.005	< 0.0005	< 0.0015	< 0.005	3500.0	<0.100	<4.00	<4.00	<4.00	<4.00
+400'	7/15/2020	0.000618	<0.005	<0.0005	< 0.0015	0.0006	4170.0	0.3330	74.70	60.20	134.90	135.233
End	7/15/2020	< 0.0005	< 0.005	< 0.0005	< 0.0015	< 0.005	2030	<0.100	<4.00	<4.00	<4.00	<4.00
Source 7' deep	7/20/2020	< 0.0005	< 0.005	< 0.0005	< 0.0015	< 0.005	232	< 0.100	6.21	<4.00	6.21	6.21
Down Gradient of Source	7/20/2020	Jar received broken in lab										
Down Gradient of Source	7/28/2020	< 0.0005	<0.005	< 0.0005	< 0.0015	< 0.005	194	<0.100	19.60	10.40	30.00	30.00
NMOCD Standar	ds	10	NE	NE	NE	50	10,000	NE	NE	NE	1,000	2,500

Pepth to water determination New Mexico Of Water Column/ (A CLW#### in the POD suffix indicates the POD has been the POD ha



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

replaced & no longer serves a water right

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	- 40	Q 16	2000		Tws	Rng	X	Υ	DepthWellDepth		Vater olumn
SJ 00012		SJ	SJ			2	30	31N	08W	258218	4084189*	1021	475	546
SJ 00198		SJ	SJ	4	3	3	32	31N	08W	258895	408 145 1*	2003		
SJ 01 167		SJ	SJ	3	4	4	24	31N	08W	266352	4084410*	465	390	75
SJ 01822		SJ	SJ	2	2	2	25	31N	08W	266540	4084216*	550	500	50
<u>SJ 03306</u>		SJ	SJ	4	4	1	25	31N	08W	265739	4083645*	600	500	100
SJ 04 103 POD1		SJAR	SJ	4	1	3	08	31N	08W	240607	4088952	26		

Average Depth to Water:

466 feet

Minimum Depth:

390 feet

Maximum Depth:

500 feet

Record Count: 6

6/8/20 1:27 PM

PLSS Search:

Township: 31N Range: 08W

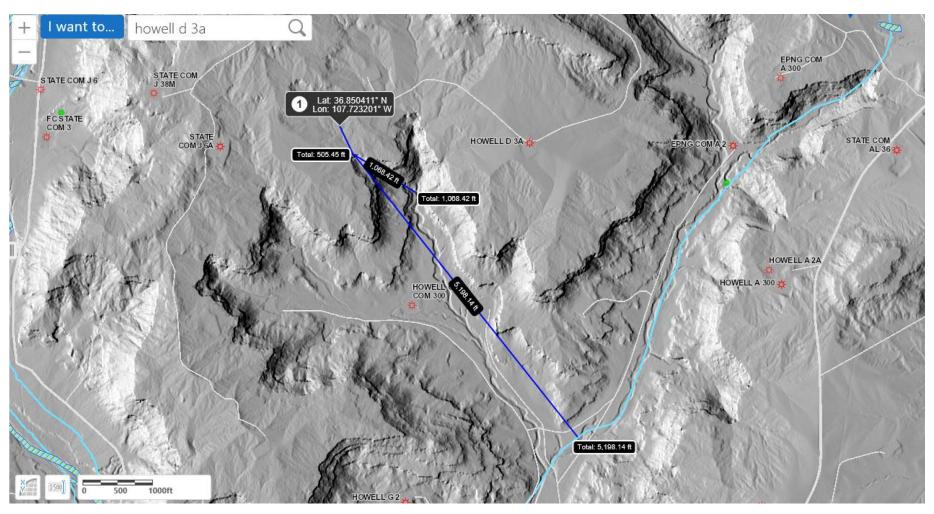
*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data

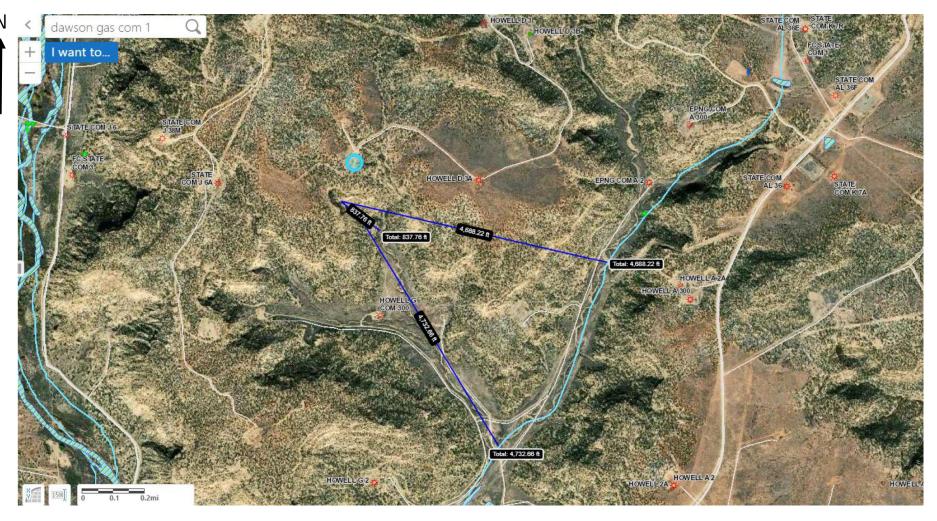
> WATER COLUMN/ AVERAGE DEPTH TO WATER

Received by OCD: 8/18/2020 10:00:40/AM

Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release



Determination of water sources and significant watercourses within ½ mile of the lateral extent of the release



hotographs – 7/15/2020 Sampling Event

Beginning of Release







Photographs – 7/15/2020 Sampling Event

+200 feet from source

+300 feet from Source

+400 feet from Source







Photographs – 7/15/2020 Sampling Event

End of Release



Photographs – 7/20/2020 Sampling Event

Source Sample



Down Gradient of Source



Photographs – 7/28/2020 Sampling Event Source and Down Gradient Sample



Summary of events

- ~21 bbl produced water release southeast of Dawson Gas Com 1 well site on June 3, 2020
 - No contaminated soil was removed
- Confirmation Sampling
 - Sampling of release path occurred on July 15th at 9:00am. Only Kurt was present but discussed sampling plan with Cory Smith over phone
 - Sampling of source area occurred on July 20th at 9:00am. Kurt and Cory Smith attended
 - Sample down gradient broke in transit so another sample was taken at the same place on July 28th

Jennifer Deal

From: Jennifer Deal

Sent: Thursday, July 16, 2020 9:32 AM

To: Smith, Cory, EMNRD; Adeloye, Abiodun A
Cc: Kurt Hoekstra; Colter Faverino; Ramon Florez

Subject: RE: [EXTERNAL] RE: Confirmation Sampling - Dawson Gas Com 1 Pipeline Leak

Follow Up Flag: Follow up Flag Status: Flagged

Cory, Kurt is planning on going out to location on 7/20 at 9am to delineate using a hand auger. Let me know if you have any questions.

Jennifer Deal Environmental Specialist Hilcorp Energy – L48 West jdeal@hilcorp.com

Office: (505) 324-5128 Cell: 505-801-6517

From: Smith, Cory, EMNRD [mailto:Cory.Smith@state.nm.us]

Sent: Wednesday, July 15, 2020 11:48 AM

To: Jennifer Deal <jdeal@hilcorp.com>; Adeloye, Abiodun A <aadeloye@blm.gov>

Cc: Kurt Hoekstra <khoekstra@hilcorp.com>; Colter Faverino <cfaverino@hilcorp.com>; Ramon Florez

<rflorez@hilcorp.com>

Subject: [EXTERNAL] RE: Confirmation Sampling - Dawson Gas Com 1 Pipeline Leak

Jennifer,

I discussed the sampling plan with Kurt today and I am ok with sampling the release path with 5 samples.

However as discussed with Kurt since this pipeline is a subsurface pipeline and the area around the pipeline was not excavated the subsurface area around the pipeline needs to be properly delineated prior to closure being granted. With the details I was given the surface sample collected at the source is not sufficient.

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Jennifer Deal < jdeal@hilcorp.com > Sent: Monday, July 13, 2020 8:34 AM

To: Smith, Cory, EMNRD < Cory. Smith@state.nm.us >; Adeloye, Abiodun A < aadeloye@blm.gov >

Cc: Kurt Hoekstra < khoekstra@hilcorp.com >; Colter Faverino < cfaverino@hilcorp.com >; Ramon Florez

<rflorez@hilcorp.com>

Subject: [EXT] Confirmation Sampling - Dawson Gas Com 1 Pipeline Leak

Good morning,

Hilcorp is providing notification of confirmation sampling to occur on Wednesday, July 15th at 9:00am at the Dawson Gas Com 1 Pipeline Leak (Incident #NRM2016457766). See attached C-141 for lat and long. Please let me know if you have any questions.

Thank you,

Jennifer Deal Environmental Specialist Hilcorp Energy – L48 West jdeal@hilcorp.com 382 Road 3100

Aztec, NM 87410 Office: (505) 324-5128 Cell: (505) 801-6517

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Jennifer Deal

From: Smith, Cory, EMNRD < Cory.Smith@state.nm.us>

Sent: Tuesday, July 28, 2020 1:16 PM

To: Jennifer Deal

Subject: [EXTERNAL] RE: Dawson Gas Com 1 Pipeline Leak

Jennifer,

Please collect another sample down gradient.

Thanks,

Cory Smith
Environmental Specialist
Oil Conservation Division
Energy, Minerals, & Natural Resources
1000 Rio Brazos, Aztec, NM 87410
(505)334-6178 ext 115
cory.smith@state.nm.us

From: Jennifer Deal <jdeal@hilcorp.com> Sent: Tuesday, July 28, 2020 1:06 PM

To: Smith, Cory, EMNRD < Cory. Smith@state.nm.us > Subject: [EXT] Dawson Gas Com 1 Pipeline Leak

Importance: High

Good afternoon Cory,

Attached are the delineation results for the Dawson Gas Com 1 Pipeline Leak. The sample that was taken down gradient from the source broke in transit. Since the source sample is below closure standards can we submit these results for the final report or would you like us to go out and grab another sample?

Thank you,

Jennifer Deal Environmental Specialist Hilcorp Energy – L48 West jdeal@hilcorp.com

Office: (505) 324-5128 Cell: 505-801-6517

From: ostudebaker@pacenational.com [mailto:ostudebaker@pacenational.com]

Sent: Monday, July 27, 2020 4:22 PM

To: Jennifer Deal < jdeal@hilcorp.com>; Kurt Hoekstra < khoekstra@hilcorp.com>

Subject: [EXTERNAL] Pace Analytical National Level II Report for Dawson Gas Com #1 Pipeline Leak L1241845

Importance: High

"Privileged and Confidential"

Thank you for choosing Pace National!

Please find enclosed PDF report containing your laboratory analysis and chain of custody.

Pace Analytical® is the first commercial laboratory in the US to offer testing of wastewater for SARS-COV2 (the virus that causes COVID-19).

https://www.pacelabs.com/environmental-sciences/testing-services/specialty-services/covid-19-wastewater-testing.html

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Pace National ... "Your Lab of Choice"

Olivia Studebaker Project Manager 615-773-9663 ostudebaker@pacenational.com

Pace Analytical National 12065 Lebanon Rd Mount Juliet, TN 37122 www.pacenational.com

Recipients configured to receive report file: ideal@hilcorp.com, khoekstra@hilcorp.com

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ANALYTICAL REPORT

July 23, 2020

HilCorp-Farmington, NM

Sample Delivery Group: L1240407 Samples Received: 07/16/2020

Project Number:

Description: Dawson Gas Com#1 Pipeline

Site: DAWSON GAS COM#1 PIPELINE

Report To: Jennifer Deal

382 Road 3100

Aztec, NM 87410

¹Cp

²Tc















Entire Report Reviewed By:

Olivia Studebaker
Project Manager

Resulteredate only to the terms tossed or calibrated and are reported as rounded values. This stat poorts shall not be reproduced, except in full, without writing approprial of the bisborriory where applicable, sampling conducted by Prose Analytical National is performed per guidance provided in laboratory standard operating procedures RNV-SOR-ATLL-0667 and RNV-SOR-MILL-0668. PM ILL-0668, PM ILL-

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
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+100' L1240407-02	6
+200' L1240407-03	7
+300' L1240407-04	8
+400' L1240407-05	9
END L1240407-06	10
Qc: Quality Control Summary	11
Wet Chemistry by Method 300.0	11
Volatile Organic Compounds (GC) by Method 8015/8021	12
Semi-Volatile Organic Compounds (GC) by Method 8015	14
GI: Glossary of Terms	16
Al: Accreditations & Locations	17
Sc: Sample Chain of Custody	18



















SAMPLE SUMMARY

	SAMILL.	301011	MAKI		ONL	
BEGINNING L1240407-01 Solid			Collected by K Hoekstra	Co ll ected date/time 07/15/20 09:40	Received da 07/16/20 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1511817	10	07/20/20 11:53	07/21/20 00:54	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1511269	1	07/17/20 15:54	07/18/20 14:56	TPR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1511346	1	07/18/20 17:12	07/19/20 12:34	FM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
+100' L1240407-02 Solid			K Hoekstra	07/15/20 09:45	07/16/20 08	:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1511817	10	07/20/20 11:53	07/21/20 07:57	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1511269	1	07/17/20 15:54	07/18/20 15:17	TPR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1511346	1	07/18/20 17:12	07/19/20 13:38	FM	Mt. Juliet, TN
			Collected by	Collected date/time	Received da	te/time
+200' L1240407-03 Solid			K Hoekstra	07/15/20 09:50	07/16/20 08:	:45
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1511817	1	07/20/20 11:53	07/21/20 08:15	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1511269	1	07/17/20 15:54	07/18/20 15:37	TPR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1511346	1	07/18/20 17:12	07/19/20 12:46	FM	Mt. Juliet, TN
+300' L1240407-04 Solid			Co ll ected by K Hoekstra	Collected date/time 07/15/20 10:10	Received da 07/16/20 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1511817	10	07/20/20 11:53	07/21/20 08:32	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1511269	1	07/17/20 15:54	07/18/20 15:58	TPR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1511346	1	07/18/20 17:12	07/19/20 12:21	FM	Mt. Juliet, TN
+400' L1240407-05 Solid			Collected by K Hoekstra	Collected date/time 07/15/20 10:25	Received da 07/16/20 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1511817	10	07/20/20 11:53	07/21/20 08:49	ELN	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1511269	1	07/17/20 15:54	07/18/20 16:19	TPR	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1511346	1	07/18/20 17:12	07/19/20 14:04	FM	Mt. Juliet, TN
END L1240407-06 Solid			Collected by K Hoekstra	Collected date/time 07/15/20 10:40	Received da 07/16/20 08	
Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst	Location
Wet Chemistry by Method 300.0	WG1511817	5	07/20/20 11:53	07/21/20 09:07	ELN	Mt. Juliet, TN
V. L. (1. 0	WO1511017	4	07/12/00 45 54	07/21/20 05:07	TDD	Ma Janet, TN



















Volatile Organic Compounds (GC) by Method 8015/8021

Semi-Volatile Organic Compounds (GC) by Method 8015

WG1511269

WG1511348

07/17/20 15:54

07/18/20 17:16

1

TPR

JN

Mt. Juliet, TN

Mt. Juliet, TN

07/18/20 16:40

07/19/20 17:38

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.



















ONE LAB. NATI Page 26 of 65 SAMPLE RESULTS - 01

Collected date/time: 07/15/20 09:40

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	4020		200	10	07/21/2020 00:54	WG1511817

Volatile Organic Compounds (GC) by Method 8015/8021

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000500	1	07/18/2020 14:56	WG1511269
Toluene	ND		0.00500	1	07/18/2020 14:56	WG1511269
Ethylbenzene	ND		0.000500	1	07/18/2020 14:56	WG1511269
Total Xylene	0.00454		0.00150	1	07/18/2020 14:56	WG1511269
TPH (GC/FID) Low Fraction	ND		0.100	1	07/18/2020 14:56	WG1511269
(S) a,a,a-Trifluorotoluene(FID)	103		77.0-120		07/18/2020 14:56	WG1511269
(S) a,a,a-Trifluorotoluene(PID)	98.6		72.0-128		07/18/2020 14:56	WG1511269



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Semi-Volatile Organic Compounds (GC) by Method 8015

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	20.4		4.00	1	07/19/2020 12:34	WG1511346
C28-C40 Oil Range	29.4		4.00	1	07/19/2020 12:34	WG1511346
(S) o-Terphenyl	52.0		18.0-148		07/19/2020 12:34	WG1511346





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SAMPLE RESULTS - 02

Collected date/time: 07/15/20 09:45

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	4090		200	10	07/21/2020 07:57	WG1511817

Volatile Organic Compounds (GC) by Method 8015/8021

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000500	1	07/18/2020 15:17	WG1511269
Toluene	ND		0.00500	1	07/18/2020 15:17	WG1511269
Ethylbenzene	ND		0.000500	1	07/18/2020 15:17	WG1511269
Total Xylene	ND		0.00150	1	07/18/2020 15:17	WG1511269
TPH (GC/FID) Low Fraction	ND		0.100	1	07/18/2020 15:17	WG1511269
(S) a,a,a-Trifluorotoluene(FID)	105		77.0-120		07/18/2020 15:17	WG1511269
(S) a,a,a-Trifluorotoluene(PID)	98.7		72.0-128		07/18/2020 15:17	WG1511269



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Semi-Volatile Organic Compounds (GC) by Method 8015

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	6.96		4.00	1	07/19/2020 13:38	WG1511346
C28-C40 Oil Range	12.9		4.00	1	07/19/2020 13:38	WG1511346
(S) o-Terphenyl	54.0		18.0-148		07/19/2020 13:38	WG1511346







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SAMPLE RESULTS - 03

Collected date/time: 07/15/20 09:50

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	ND		20.0	1	07/21/2020 08:15	WG1511817

Volatile Organic Compounds (GC) by Method 8015/8021

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000500	1	07/18/2020 15:37	WG1511269
Toluene	ND		0.00500	1	07/18/2020 15:37	WG1511269
Ethylbenzene	ND		0.000500	1	07/18/2020 15:37	WG1511269
Total Xylene	ND		0.00150	1	07/18/2020 15:37	WG1511269
TPH (GC/FID) Low Fraction	ND		0.100	1	07/18/2020 15:37	WG1511269
(S) a,a,a-Trifluorotoluene(FID)	103		77.0-120		07/18/2020 15:37	WG1511269
(S) a,a,a-Trifluorotoluene(PID)	98.6		72.0-128		07/18/2020 15:37	WG1511269



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Semi-Volatile Organic Compounds (GC) by Method 8015

<u> </u>	'	(/)				
	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	6.41	<u>J6</u>	4.00	1	07/19/2020 12:46	WG1511346
C28-C40 Oil Range	11.8		4.00	1	07/19/2020 12:46	WG1511346
(S) o-Terphenyl	66.9		18.0-148		07/19/2020 12:46	WG1511346



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SAMPLE RESULTS - 04

Collected date/time: 07/15/20 10:10

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	3500		200	10	07/21/2020 08:32	WG1511817

Volatile Organic Compounds (GC) by Method 8015/8021

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000500	1	07/18/2020 15:58	WG1511269
Toluene	ND		0.00500	1	07/18/2020 15:58	WG1511269
Ethylbenzene	ND		0.000500	1	07/18/2020 15:58	WG1511269
Total Xylene	ND		0.00150	1	07/18/2020 15:58	WG1511269
TPH (GC/FID) Low Fraction	ND		0.100	1	07/18/2020 15:58	WG1511269
(S) a,a,a-Trifluorotoluene(FID)	104		77.0-120		07/18/2020 15:58	WG1511269
(S) a,a,a-Trifluorotoluene(PID)	98.6		72.0-128		07/18/2020 15:58	WG1511269



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Semi-Volatile Organic Compounds (GC) by Method 8015

	<u>'</u>	, , ,				
	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.00	1	07/19/2020 12:21	WG1511346
C28-C40 Oil Range	ND		4.00	1	07/19/2020 12:21	WG1511346
(S) o-Terphenyl	70.0		18.0-148		07/19/2020 12:21	WG1511346





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SAMPLE RESULTS - 05

Collected date/time: 07/15/20 10:25

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	4170		200	10	07/21/2020 08:49	WG1511817

Volatile Organic Compounds (GC) by Method 8015/8021

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
Benzene	0.000618		0.000500	1	07/18/2020 16:19	<u>WG1511269</u>
Toluene	ND		0.00500	1	07/18/2020 16:19	<u>WG1511269</u>
Ethylbenzene	ND		0.000500	1	07/18/2020 16:19	<u>WG1511269</u>
Total Xylene	ND		0.00150	1	07/18/2020 16:19	<u>WG1511269</u>
TPH (GC/FID) Low Fraction	0.333		0.100	1	07/18/2020 16:19	<u>WG1511269</u>
(S) a,a,a-Trifluorotoluene(FID)	103		77.0-120		07/18/2020 16:19	<u>WG1511269</u>
(S) a,a,a-Trifluorotoluene(PID)	99.1		72.0-128		07/18/2020 16:19	WG1511269



Semi-Volatile Organic Compounds (GC) by Method 8015

	'	, , ,				
	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	74.7		4.00	1	07/19/2020 14:04	WG1511346
C28-C40 Oil Range	60.2		4.00	1	07/19/2020 14:04	WG1511346
(S) o-Terphenyl	61.7		18.0-148		07/19/2020 14:04	WG1511346



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SAMPLE RESULTS - 06

Collected date/time: 07/15/20 10:40

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
Chloride	2030		100	5	07/21/2020 09:07	WG1511817

Volatile Organic Compounds (GC) by Method 8015/8021

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000500	1	07/18/2020 16:40	<u>WG1511269</u>
Toluene	ND		0.00500	1	07/18/2020 16:40	<u>WG1511269</u>
Ethylbenzene	ND		0.000500	1	07/18/2020 16:40	WG1511269
Total Xylene	ND		0.00150	1	07/18/2020 16:40	<u>WG1511269</u>
TPH (GC/FID) Low Fraction	ND		0.100	1	07/18/2020 16:40	WG1511269
(S) a,a,a-Trifluorotoluene(FID)	100		77.0-120		07/18/2020 16:40	WG1511269
(S) a,a,a-Trifluorotoluene(PID)	98.6		72.0-128		07/18/2020 16:40	WG1511269



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Semi-Volatile Organic Compounds (GC) by Method 8015

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	ND		4.00	1	07/19/2020 17:38	WG1511348
C28-C40 Oil Range	ND		4.00	1	07/19/2020 17:38	WG1511348
(S) o-Terphenyl	55.7		18.0-148		07/19/2020 17:38	WG1511348



QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Wet Chemistry by Method 300.0

L1240407-01,02,03,04,05,06

Method Blank (MB)

(MB) R3551448-1 07/20	0/20 12:39			
ma	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	П		9.20	20.0

L1240208-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1240208-01 07/20/20 15:14 • (DUP) R3551448-3 07/20/20 15:37

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	152	153	1	0.674		20

L1241317-03 Original Sample (OS) • Duplicate (DUP)

(OS) L1241317-03 07/21/20 01:45 • (DUP) R3551448-6 07/21/20 02:11

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	ND	ND	1	0.000		20

Laboratory Control Sample (LCS)

(LCS) R3551448-2 07/20/20 13:01

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	199	99.3	90.0-110	

L1240407-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1240407-01 07/20/20 19:27 • (MS) R3551448-4 07/20/20 19:50 • (MSD) R3551448-5 07/20/20 20:13

(03) [12+0+07 01 07/20/2	(03) E1240407 01 01/20/20 13.27 + (M3) (0331440 4 01/20/20 13.30 + (M3D) (0331440 3 01/20/20 20.13											
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	4300	5230	5120	186	165	1	80.0-120	ΕV	ΕV	2.03	20

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QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

WG1511269
Volatile Organic Compounds (GC) by Method 8015/8021

L1240407-01,02,03,04,05,06

Method Blank (MB)

· ·					
(MB) R3551593-3 07/18/2	20 13:16				
Analyte	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Benzene	U		0.000120	0.000500	
? Toluene	U		0.000150	0.00500	
Ethylbenzene	U		0.000110	0.000500	
otal Xylene	U		0.000460	0.00150	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(FID)	105			77.0-120	
⟨S⟩ ⟨¬a,a,a-Trifluorotoluene(PID)	101			72.0-128	

Laboratory Control Sample (LCS)

(LCS) R3551593-1 07/18/20 12:14										
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier					
Analyte	mg/kg	mg/kg	%	%						
Benzene	0.0500	0.0443	88.6	76.0-121						
Toluene	0.0500	0.0479	95.8	80.0-120						
Ethylbenzene	0.0500	0.0490	98.0	80.0-124						
Total Xylene	0.150	0.145	96.7	37.0-160						
(S) a,a,a-Trifluorotoluene(FID)			106	77.0-120						
(S) a,a,a-Trifluorotoluene(PID)			100	72.0-128						

Laboratory Control Sample (LCS)

(LCS) R3551593-2 07/18/20 12:35								
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier			
Analyte	mg/kg	mg/kg	%	%				
TPH (GC/FID) Low Fraction	5.50	6.78	123	72.0-127				
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120				
(S) a,a,a-Trifluorotoluene(PID)			109	72.0-128				

(S) a,a,a-Trifluorotoluene(PID)

QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Volatile Organic Compounds (GC) by Method 8015/8021

L1240407-01,02,03,04,05,06

L1239966-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

٥	(OS) L1239966-03	07/18/20 20:48 • (MS) R3551593-4	07/18/20 21:09 • (MSD) R3551593-5 07/18/20 21:29

(00) 21200000 00 077107	20 20:10 (1110)		37710720 21100	(02) 1.0001	000 0 077.072	0 220						
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Benzene	12.4	0.379	9.71	10.2	75.3	79.2	250	10.0-155			4.92	32
Toluene	12.4	ND	11.4	12.1	91.9	97.6	250	10.0-160			5.96	34
Ethylbenzene	12.4	3.17	14.6	15.4	92.2	98.6	250	10.0-160			5.33	32
Total Xylene	37.2	12.8	44.9	47.5	86.3	93.3	250	10.0-160			5.63	32
(S) a,a,a-Trifluorotoluene(FID)					93.5	92.2		77.0-120				
(S) a,a,a-Trifluorotoluene(PID)					98.2	97.6		72.0-128				

L1239966-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1239966-03 07/18/	(OS) L1239966-03 07/18/20 20:48 • (MS) R3551593-6 07/18/20 21:50 • (MSD) R3551593-7 07/18/20 22:11											
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	1360	613	1620	1640	74.0	75.5	250	10.0-151			1.23	28
(S) a,a,a-Trifluorotoluene(FID)					96.6	96.5		77.0-120				

72.0-128

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QUALITY CONTROL SUMMARY

ONE LAB. NATIONWIDE.

Semi-Volatile Organic Compounds (GC) by Method 8015

L1240407-01,02,03,04,05

sed Method Blank (MB)

(MB) R3551041-1 07/19/	20 10:24			
ma	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	53.8			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3551041-2	07/19/20 10:37
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4 P	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	30.8	61.6	50.0-150	
(S) o-Terphenyl			71.3	18.0-148	

L1240407-03 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1240407-03 07/19/20 12:46 • (MS) R3551041-3 07/19/20 12:59 • (MSD) R3551041-4 07/19/20 13:12

(03) [1240407-03 07/13/2	, ,	Original Result		MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
C10-C28 Diesel Range	48.9	6.41	26.0	29.8	40.1	47.9	1	50.0-150	<u>J6</u>	<u>J6</u>	13.6	20
(S) o-Terphenyl					47.1	54.2		18.0-148				

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Semi-Volatile Organic Compounds (GC) by Method 8015
Method Blank (MB)

L1240407-06

(MB) R3551042-1 07/19	9/20 16:46			
ma	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	66.1			18.0-148

Laboratory Control Sample (LCS)

(LCS) R3551042-2	07/19/20 16:59
------------------	----------------

MAnalyte	Spike Amount mg/kg	LCS Result mg/kg	LCS Rec. %	Rec. Limits %	LCS Qualifier
C10-C28 Diesel Range	50.0	33.3	66.6	50.0-150	
(S) o-Terphenyl			74.9	18.0-148	

L1240411-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1240411-01 07/20/20 12:43 • (MS) R3	3551601-1 07/20/20 12:56 • (N	MSD) R3551601-2	07/20/20 13:09
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(05) L1240411-01 07/20/20 12.43 • (N15) K3551601-1 07/20/20 12.56 • (N15D) K3551601-2 07/20/20 13.09													
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
C10-C28 Diesel Range	49.0	138	139	164	2.04	52.8	5	50.0-150	<u>J6</u>		16.5	20	
(S) o-Terphenyl					46.3	51.5		18.0-148					



Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Abbreviations and	3 Dell'Illions
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J6	The sample matrix interfered with the ability to make any accurate determination; spike value is low.
V	The sample concentration is too high to evaluate accurate spike recoveries.









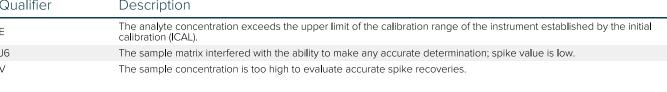














Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alshama	40000
Alabama	40660
Alaska	17-026
Arizona	AZ0612
Arkansas	88-0469
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky ^{1 6}	90010
Kentucky ²	16
Louisiana	Al30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee 1 4	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA - ISO 17025 5	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

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ennifer Deal		43	jdeal@h	ilcorp.com; khoekstra@hilcorp				15 00				-				Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859	
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none: 505-324-5128 x:	Client Project	73/4		Lab Project #	Lab Project #		GRO, MRO				A					L# 1240 M14	
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Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	TPH	ВТЕХ	Chlo							Shipped Via:	Sample # (lab only
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ANALYTICAL REPORT

July 27, 2020

HilCorp-Farmington, NM

Sample Delivery Group: L1241845 Samples Received: 07/21/2020

Project Number:

Description: Dawson Gas Com #1 Pipeline Leak

Site: DAWSON GC PIPELINE LEAK

Report To: Jennifer Deal

382 Road 3100

Aztec, NM 87410

¹Cp

²Tc















Entire Report Reviewed By:

Olivia Studebaker
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall mit be reproduced, except in fall, without written approved of the aboratory. Where applicable, sampling conducted by Prese.

BN-SSO-PATIL-1066. Where simpling conducted by the customer, results relate to the accuracy of the information provided, and as the samples are received.

Cp: Cover Page	1
Tc: Table of Contents	2
Ss: Sample Summary	3
Cn: Case Narrative	4
Sr: Sample Results	5
SOURCE 7' DEEP L1241845-01	5
Qc: Quality Control Summary	6
Wet Chemistry by Method 300.0	6
Volatile Organic Compounds (GC) by Method 8015/8021	7
Semi-Volatile Organic Compounds (GC) by Method 8015	9
GI: Glossary of Terms	10
Al: Accreditations & Locations	11
Sc: Sample Chain of Custody	12



















Dilution

1

1

Batch

WG1513059

WG1515140

WG1515220

Mt. Juliet, TN

Mt. Juliet, TN

Mt. Juliet, TN

SOURCE 7' DEEP	L1241845-01	Solid

Volatile Organic Compounds (GC) by Method 8015/8021

Semi-Volatile Organic Compounds (GC) by Method 8015

Method

Wet Chemistry by Method 300.0

Collected by	Coll
K Hoekstra	07/2

Preparation date/time

07/23/20 11:59

07/22/20 17:26

07/25/20 20:55

llected date/time Received date/time

07/23/20 19:23

07/25/20 12:57

07/26/20 10:47

2
Tc.

07/20/20 09:55	07/21/20 08:45	
Ana l ysis	Analyst	Location
date/time		

MCG

TPR

TJD



3	SS	
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All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

¹Cp

















HilCorp-Farmington, NM

SAMPLE RESULTS - 01

Collected date/time: 07/20/20 09:55

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg	mg/kg		mg/kg date /		
Chloride	232		20.0	1	07/23/2020 19:23	WG1513059

Volatile Organic Compounds (GC) by Method 8015/8021

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000500	1	07/25/2020 12:57	WG1515140
Toluene	ND		0.00500	1	07/25/2020 12:57	WG1515140
Ethylbenzene	ND		0.000500	1	07/25/2020 12:57	WG1515140
Total Xylene	ND		0.00150	1	07/25/2020 12:57	WG1515140
TPH (GC/FID) Low Fraction	ND		0.100	1	07/25/2020 12:57	WG1515140
(S) a,a,a-Trifluorotoluene(FID)	109		77.0-120		07/25/2020 12:57	WG1515140
(S) a,a,a-Trifluorotoluene(PID)	102		72.0-128		07/25/2020 12:57	WG1515140



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GI

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	6.21		4.00	1	07/26/2020 10:47	WG1515220
C28-C40 Oil Range	ND		4.00	1	07/26/2020 10:47	WG1515220
(S) o-Terphenyl	58.1		18.0-148		07/26/2020 10:47	WG1515220



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L1241845-01

Method Blank (MB)

(MB) R3553300-1	07/23/20 13:17
-----------------	----------------

Wet Chemistry by Method 300.0

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
Chloride	U		9.20	20.0

L1241738-01 Original Sample (OS) • Duplicate (DUP)

OS) L1241738-01 07/23/20 14:09 • (DUP) R3553300-3 07/23/20 14:27

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Ch l oride	ND	ND	1	0.000		20

L1241903-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1241903-01 07/23/20 21:25 • (DUP) R3553300-6 07/23/20 21:42

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	93.2	97.5	1	4.58		20

Laboratory Control Sample (LCS)

(LCS) R3553300-2 07/23/20 13:34

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	204	102	90.0-110	

L1241845-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1241845-01	0//23/20 19:23 • (MS) R3553300-4	07/23/20 19:40 • (MSD)	R3553300-5 07/23/20 20:32
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(00) EIZ 110 10 01 07	(30) ELE 110 10 31 31 20 10.23 (110) 10000000 1 31 20 20 10.10 (110) 100000000 3 31 20 20 20												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits	
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%	
Chloride	500	232	739	759	101	105	1	80.0-120			2.56	20	

OCD: 8/18/2020 10:00:40/AM





PAGE:

6 of 13

ACCOUNT:

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L1241845-01

Method Blank (MB)

	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte Benzene	mg/kg		mg/kg	mg/kg
Benzene	U		0.000120	0.000500
Toluene	U		0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
Total Xylene	U		0.000460	0.00150
*TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) a,a,a-Trifluorotoluene(PID)	104			72.0-128
(S) a,a,a-Trifluorotoluene(FID)	110			77.0-120

Method Blank (MB)

(MB) R3553489-4 07/25	/20 11:45				
	MB Result	MB Qualifier	MB MDL	MB RDL	
Analyte	mg/kg		mg/kg	mg/kg	
Benzene	U		0.000120	0.000500	
Toluene	U		0.000150	0.00500	
Ethylbenzene	U		0.000110	0.000500	
Total Xylene	U		0.000460	0.00150	
TPH (GC/FID) Low Fraction	U		0.0217	0.100	
(S) a,a,a-Trifluorotoluene(PID)	104			72.0-128	
(S) a,a,a-Trifluorotoluene(FID)	110			77.0-120	

Laboratory Control Sample (LCS)

(LCS) R3553489-1 07/25	(LCS) R3553489-1 07/25/20 10:22				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Benzene	0.0500	0.0492	98.4	76.0-121	
Toluene	0.0500	0.0538	108	80.0-120	
Ethylbenzene	0.0500	0.0551	110	80.0-124	
Total Xylene	0.150	0.163	109	37.0-160	
(S) a,a,a-Trifluorotoluene(PID)			103	72.0-128	
(S) a,a,a-Trifluorotoluene(FID)			110	77.0-120	

GI

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L1241845-01

WG1515140 Volatile Organic Compounds (GC) by Method 8015/8021 Laboratory Control Sample (LCS)

(LCS) R3553489-2 07/25/20 10:43

(LCS) R3553489-2 07/25	(LCS) R3553489-2 07/25/20 10:43						
Ta a a a a a a a a a a a a a a a a a a	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier		
Analyte	mg/kg	mg/kg	%	%			
TPH (GC/FID) Low Fraction	5.50	5.94	108	72.0-127			
(S) a,a,a-Trifluorotoluene(PID)			111	72.0-128			
(S) a,a,a-Trifluorotoluene(FID)			101	77.0-120			
3.4.							
4.04							
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WG1515220
Semi-Volatile Organic Compounds (GC) by Method 8015
Method Blank (MB)

L1241845-01

(MB) R3553436-1 07/26	6/20 09:43			
ma	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	73.9			18.0-148

Laboratory Control Sample (LCS)

(LCS)	R3553436-2	07/26/20	09:56
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4 P	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
≷Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	38.9	77.8	50.0-150	
(S) o-Terphenyl			77.6	18.0-148	







Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbroviations and Dofinitions

Abbreviations and	d Definitions
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
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Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.























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State Accreditations

Alabama	40660
Alaska	17-026
Arizona	AZ0612
	88-0469
Arkansas	
California	2932
Colorado	TN00003
Connecticut	PH-0197
Florida	E87487
Georgia	NELAP
Georgia ¹	923
Idaho	TN00003
Illinois	200008
Indiana	C-TN-01
Iowa	364
Kansas	E-10277
Kentucky 16	90010
Kentucky ²	16
Louisiana	Al30792
Louisiana ¹	LA180010
Maine	TN0002
Maryland	324
Massachusetts	M-TN003
Michigan	9958
Minnesota	047-999-395
Mississippi	TN00003
Missouri	340
Montana	CERT0086

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee 14	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA - ISO 17025 5	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

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			Billing Info	rmation:					А	nalysis / C	ontainer /	Preservat	tive	Chain of Custody Page of			
				Jennifer Deal		Pres Chk										Pace Al National Center	nalytical* Individual to resting & Innovetion
		Email To: jdeal@h	ilcorp.com;	lcorp										12065 Lebanon Rd Mount Juliet, TN 3712 Phone: 615-758-5858			
Project Description: Dawson Gas Com #	1 Pipeline	Leak		City/State Collected: Az	tec, NM	1	MRO	1=								Phone: 800-767-5859 Fax: 615-758-5859	
Phone: 505-324-5128 sax:	Client Project # Lab Project #			oject#											C23	3	
Collected by (print): (Hoekstra	Site/Facility II Dawson G		e Leak	P.O.#		i	DRO, GRO									Acctnum: HILC	ORANM
Collected by signature: Kut Hoepth Immediately Packed on Ice N YX	Same D		Day	Quote #	esults Needed	No. of	-8015 - DI	BTEX 8021	ride 300.0							Prelogin: TSR:	
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	ТРН	BTEX	Chloride							Shipped Via:	Sample # (lab only)
Source 7' Deep	Grab	SS	7'	7-20-20	9:55	1	X	X	×							2.32	-01
Down Gradient of Source	Grab	SS	7'	7-20-20	10:24	1	X	×	X								
													-		de m	har	
			1					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1									
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			200		***												
The state of the s																** A	
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater DW - Drinking Water	Remarks:	urned via:								pH _		Temp		COC S Bottle	eal Prigned, es arr	cle Receipt Che resent/Intact: /Accurate: rive intact: ttles used: volume sent:	NP Y N Y N Y N Y N
OT - Other		edEx Co	ourier		Tracking #		17	49	999	6 90	757					If Applicable adspace:	e
Relinquished by: (Signature)	tu	Date: 7 - 2	20-20	Time: 1-35	Received by: (Sign	ature)	2 kg			T.	Received O		MeoH			on Correct/Che	
Relinquished by : (Signature)		Date:		Time:	Received by: (Sign	nature)				Temp: 142	AGC	Bottles Re	ceived:	If prese	ervatio	n required by Logi	n: Date/Time
Relinquished by : (Signature)		Date:	/ 1	Time:	Received for lab b	y: (Signa	ature)	X	7	Date:/ 07/21	por	Time: 8	45	Hold:			Condition:
	42	the contract			/ /	1		1-6		1	14 to 10 to 10	il.					

Jeremy W. Watkins



Login #: L1241845 Client: HILCORANM Date: 7/21/20 Evaluated by: Jeremy

Non-Conformance (check applicable items)

	Sample Integrity	Chain of Custody Clarification	
	Parameter(s) past holding time	Login Clarification Needed	If Broken Container:
	Temperature not in range	Chain of custody is incomplete	Insufficient packing material around container
	Improper container type	Please specify Metals requested.	Insufficient packing material inside cooler
	pH not in range.	Please specify TCLP requested.	Improper handling by carrier (FedEx / UPS / Cour
	Insufficient sample volume.	Received additional samples not listed on coc.	Sample was frozen
	Sample is biphasic.	Sample ids on containers do not match ids on coc	Container lid not intact
	Vials received with headspace.	Trip Blank not received.	If no Chain of Custody:
х	Broken container	Client did not "X" analysis.	Received by:
	Broken container:	Chain of Custody is missing	Date/Time:
	Sufficient sample remains		Temp./Cont. Rec./pH:
			Carrier:
			Tracking#

Login Comments: Received DOWN GRADIENT OF SOURCE broken. Unsalvageable.

Client informed by:	Call	x	Email	Voice Mail	Date: 7/22/20	Time: 1158	
TSR Initials: OS	Client Co	ntact:	Kurt Hoek	stra			

Client has been notified. Please proceed with intact sample Source 7' Deep

Notice: This communication and any attached files may contain privileged or other confidential information. If you have received this in error, please contact the sender immediately via reply email and immediately delete the message and any attachments without copying or disclosing the contents. Thank you.



ANALYTICAL REPORT

August 05, 2020

HilCorp-Farmington, NM

Sample Delivery Group: L1245027 Samples Received: 07/30/2020

Project Number:

Description: Dawson Gas Com 1 Pipeline Leak

Site: DAWSON GC PIPELINE LEAK

Report To: Jennifer Deal

382 Road 3100

Aztec, NM 87410

¹Cp

²Tc















Entire Report Reviewed By:

Asson Romer
Project Manager

Results relate only to the items tested or calibrated and are reported as rounded values. This test report shall mit the reproduced, except in fall, without written approval of the bloostory. Where applicable, sampling conducted by Prece and the shall be applicable and the sample of the bloostory. Where applicable, sampling conducted by the case and the sample of the bloostory of the information provided, and as the samples are received.

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Cp: Cover Page	1
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DOWN GRADIENT FROM SOURCE L1245027-01	5
Qc: Quality Control Summary	6
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Semi-Volatile Organic Compounds (GC) by Method 8015	9
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Al: Accreditations & Locations	11
Sc: Sample Chain of Custody	12





















SAMPLE SUMMARY

Collected by

Collected date/time Received date/time

DOWN GRADIENT FROM SOURCE L1245027	7-01 Solid		K Hoekstra	07/28/20 14:45	07/30/20 09	:00
Method	Batch	Dilution	Preparation	Ana l ysis	Analyst	Location
			date/time	date/time		
Wet Chemistry by Method 300.0	WG1518249	1	08/01/20 10:00	08/01/20 23:27	MCG	Mt. Juliet, TN
Volatile Organic Compounds (GC) by Method 8015/8021	WG1519076	1	07/31/20 18:27	08/02/20 13:47	JHH	Mt. Juliet, TN
Semi-Volatile Organic Compounds (GC) by Method 8015	WG1519555	1	08/04/20 10:14	08/04/20 19:23	FM	Mt. Juliet. TN

















All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times, unless qualified or notated within the report. Where applicable, all MDL (LOD) and RDL (LOQ) values reported for environmental samples have been corrected for the dilution factor used in the analysis. All Method and Batch Quality Control are within established criteria except where addressed in this case narrative, a non-conformance form or properly qualified within the sample results. By my digital signature below, I affirm to the best of my knowledge, all problems/anomalies observed by the laboratory as having the potential to affect the quality of the data have been identified by the laboratory, and no information or data have been knowingly withheld that would affect the quality of the data.

¹Cp

















HilCorp-Farmington, NM

SAMPLE RESULTS - 01

Collected date/time: 07/28/20 14:45

Wet Chemistry by Method 300.0

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
Chloride	194		20.0	1	08/01/2020 23:27	WG1518249

Volatile Organic Compounds (GC) by Method 8015/8021

	Result	Qualifier	RDL	Dilution	Analysis	<u>Batch</u>
Analyte	mg/kg		mg/kg		date / time	
Benzene	ND		0.000500	1	08/02/2020 13:47	WG1519076
Toluene	ND		0.00500	1	08/02/2020 13:47	<u>WG1519076</u>
Ethylbenzene	ND		0.000500	1	08/02/2020 13:47	WG1519076
Total Xylene	ND		0.00150	1	08/02/2020 13:47	<u>WG1519076</u>
TPH (GC/FID) Low Fraction	ND		0.100	1	08/02/2020 13:47	WG1519076
(S) a,a,a-Trifluorotoluene(FID)	90.5		77.0-120		08/02/2020 13:47	<u>WG1519076</u>
(S) a,a,a-Trifluorotoluene(PID)	99.7		72.0-128		08/02/2020 13:47	WG1519076



GI

СQс

Semi-Volatile Organic Compounds (GC) by Method 8015

	Result	Qualifier	RDL	Dilution	Analysis	Batch
Analyte	mg/kg		mg/kg		date / time	
C10-C28 Diesel Range	19.6		4.00	1	08/04/2020 19:23	WG1519555
C28-C40 Oil Range	10.4		4.00	1	08/04/2020 19:23	WG1519555
(S) o-Terphenyl	68.4		18.0-148		08/04/2020 19:23	WG1519555







ONE LAB. NATIONWIDE.

L1245027-01

Method Blank (MB)

Wet Chemistry by Method 300.0

(MB) R355550-1 08/	01/20 12:46			
ma	MB Result	MB Qualifier	MB MDL	
Analyte	mg/kg		mg/kg	
Chloride	U		9.20	

\$\alpha\$L1244955-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1244955-01 08/01/20 18:07 • (DUP) R3555550-5 08/01/20 18:30

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	ND	ND	1	0.000		20

MB RDL mg/kg

20.0

L1245027-01 Original Sample (OS) • Duplicate (DUP)

(OS) L1245027-01 08/01/20 23:27 • (DUP) R3555550-6 08/01/20 23:50

	Original Result	DUP Result	Dilution	DUP RPD	DUP Qualifier	DUP RPD Limits
Analyte	mg/kg	mg/kg		%		%
Chloride	194	180	1	7.50		20

Laboratory Control Sample (LCS)

(LCS) R3555550-2 08/01/20 13:09

	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Chloride	200	198	98.9	90.0-110	

L1244096-01 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

(OS) L1244096-01 08/01/20 14:40 • (MS) R3555550-3 08/01/20 15:03 • (MSD) R3555550-4 08/01/20 15:26

(00) ELETTION OF CONTROL (1110) NOODOOG CONTR												
	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
Chloride	500	78.2	553	552	95.0	94.7	1	80.0-120			0.277	20



HilCorp-Farmington, NM

L1245027-01

WG1519076 Volatile Organic Compounds (GC) by Method 8015/8021 Method Blank (MB)

(MB) R3555645-3 08/02/	/20 09:13			
ma	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte Benzene	mg/kg		mg/kg	mg/kg
Benzene	U		0.000120	0.000500
? Toluene	U		0.000150	0.00500
Ethylbenzene	U		0.000110	0.000500
otal Xylene	U		0.000460	0.00150
TPH (GC/FID) Low Fraction	U		0.0217	0.100
(S) Aa,a,a-Trifluorotoluene(FID)	94.0			77.0-120
(S) Da,a,a-Trifluorotoluene(PID)	106			72.0-128

Laboratory Control Sample (LCS)

•					
(LCS) R3555645-1 08/02	2/20 08:11				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
Benzene	0.0500	0.0502	100	76.0-121	
Toluene	0.0500	0.0512	102	80.0-120	
Ethylbenzene	0.0500	0.0455	91.0	80.0-124	
Total Xylene	0.150	0.128	85.3	37.0-160	
(S) a,a,a-Trifluorotoluene(FID)			92.1	77.0-120	
(S) a,a,a-Trifluorotoluene(PID)			98.2	72.0-128	

Laboratory Control Sample (LCS)

(LCS) R3555645-2 08/0	2/20 08:32				
	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
Analyte	mg/kg	mg/kg	%	%	
TPH (GC/FID) Low Fraction	5.50	4.93	89.6	72.0-127	
(S) a,a,a-Trifluorotoluene(FID)			107	77.0-120	
(S) a.a.a-Trifluorotoluene(PID)			105	72.0-128	

Sc

HilCorp-Farmington, NM

(S) a,a,a-Trifluorotoluene(PID)

QUALITY CONTROL SUMMARY

72.0-128

ONE LAB. NATIONWIDE.

WG1519076
Volatile Organic Compounds (GC) by Method 8015/8021

£L1245081-07 Original Sample (OS) • Matrix Spike (MS) • Matrix Spike Duplicate (MSD)

~ (OS) L1245081-07 08/02/20 18:35 • (MS) R3555645-4 08/02/20 18:56 • (MSD) R3555645-5 08/02

ma	Spike Amount	Original Result	MS Result	MSD Result	MS Rec.	MSD Rec.	Dilution	Rec. Limits	MS Qualifier	MSD Qualifier	RPD	RPD Limits
Analyte	mg/kg	mg/kg	mg/kg	mg/kg	%	%		%			%	%
TPH (GC/FID) Low Fraction	2720	1220	3540	3410	85.3	80.5	500	10.0-151			3.74	28
(S) 2a,a,a-Trifluorotoluene(FID)					114	114		77.0-120				

106

113







WG151955 Semi-Volatile Organic Compounds (GC) by Method 8015 Method Blank (MB)

L1245027-01

(MB) R3556328-1 08/04	4/20 17:41			
7	MB Result	MB Qualifier	MB MDL	MB RDL
Analyte	mg/kg		mg/kg	mg/kg
C10-C28 Diesel Range	U		1.61	4.00
C28-C40 Oil Range	U		0.274	4.00
(S) o-Terphenyl	80.9			18.0-148

Laboratory Control Sample (LCS)

LCS) R3556328-2	08/04/20	17:53
------------------------	----------	-------

4 P	Spike Amount	LCS Result	LCS Rec.	Rec. Limits	LCS Qualifier
₹Analyte	mg/kg	mg/kg	%	%	
C10-C28 Diesel Range	50.0	40.9	81.8	50.0-150	
(S) o-Terphenyl			<i>93.2</i>	18.0-148	







Guide to Reading and Understanding Your Laboratory Report

The information below is designed to better explain the various terms used in your report of analytical results from the Laboratory. This is not intended as a comprehensive explanation, and if you have additional questions please contact your project representative.

Results Disclaimer - Information that may be provided by the customer, and contained within this report, include Permit Limits, Project Name, Sample ID, Sample Matrix, Sample Preservation, Field Blanks, Field Spikes, Field Duplicates, On-Site Data, Sampling Collection Dates/Times, and Sampling Location. Results relate to the accuracy of this information provided, and as the samples are received.

Abbreviations and Definitions

Appreviations and	d Definitions
MDL	Method Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
RDL	Reported Detection Limit.
Rec.	Recovery.
RPD	Relative Percent Difference.
SDG	Sample Delivery Group.
(S)	Surrogate (Surrogate Standard) - Analytes added to every blank, sample, Laboratory Control Sample/Duplicate and Matrix Spike/Duplicate; used to evaluate analytical efficiency by measuring recovery. Surrogates are not expected to be detected in all environmental media.
U	Not detected at the Reporting Limit (or MDL where applicable).
Analyte	The name of the particular compound or analysis performed. Some Analyses and Methods will have multiple analytes reported.
Dilution	If the sample matrix contains an interfering material, the sample preparation volume or weight values differ from the standard, or if concentrations of analytes in the sample are higher than the highest limit of concentration that the laboratory can accurately report, the sample may be diluted for analysis. If a value different than 1 is used in this field, the result reported has already been corrected for this factor.
Limits	These are the target % recovery ranges or % difference value that the laboratory has historically determined as normal for the method and analyte being reported. Successful QC Sample analysis will target all analytes recovered or duplicated within these ranges.
Original Sample	The non-spiked sample in the prep batch used to determine the Relative Percent Difference (RPD) from a quality control sample. The Original Sample may not be included within the reported SDG.
Qualifier	This column provides a letter and/or number designation that corresponds to additional information concerning the result reported. If a Qualifier is present, a definition per Qualifier is provided within the Glossary and Definitions page and potentially a discussion of possible implications of the Qualifier in the Case Narrative if applicable.
Result	The actual analytical final result (corrected for any sample specific characteristics) reported for your sample. If there was no measurable result returned for a specific analyte, the result in this column may state "ND" (Not Detected) or "BDL" (Below Detectable Levels). The information in the results column should always be accompanied by either an MDL (Method Detection Limit) or RDL (Reporting Detection Limit) that defines the lowest value that the laboratory could detect or report for this analyte.
Uncertainty (Radiochemistry)	Confidence level of 2 sigma.
Case Narrative (Cn)	A brief discussion about the included sample results, including a discussion of any non-conformances to protocol observed either at sample receipt by the laboratory from the field or during the analytical process. If present, there will be a section in the Case Narrative to discuss the meaning of any data qualifiers used in the report.
Quality Control Summary (Qc)	This section of the report includes the results of the laboratory quality control analyses required by procedure or analytical methods to assist in evaluating the validity of the results reported for your samples. These analyses are not being performed on your samples typically, but on laboratory generated material.
Sample Chain of Custody (Sc)	This is the document created in the field when your samples were initially collected. This is used to verify the time and date of collection, the person collecting the samples, and the analyses that the laboratory is requested to perform. This chain of custody also documents all persons (excluding commercial shippers) that have had control or possession of the samples from the time of collection until delivery to the laboratory for analysis.
Sample Results (Sr)	This section of your report will provide the results of all testing performed on your samples. These results are provided by sample ID and are separated by the analyses performed on each sample. The header line of each analysis section for each sample will provide the name and method number for the analysis reported.
Sample Summary (Ss)	This section of the Analytical Report defines the specific analyses performed for each sample ID, including the dates and times of preparation and/or analysis.

Qualifier Description

The remainder of this page intentionally left blank, there are no qualifiers applied to this SDG.























Pace National is the only environmental laboratory accredited/certified to support your work nationwide from one location. One phone call, one point of contact, one laboratory. No other lab is as accessible or prepared to handle your needs throughout the country. Our capacity and capability from our single location laboratory is comparable to the collective totals of the network laboratories in our industry. The most significant benefit to our one location design is the design of our laboratory campus. The model is conducive to accelerated productivity, decreasing turn-around time, and preventing cross contamination, thus protecting sample integrity. Our focus on premium quality and prompt service allows us to be YOUR LAB OF CHOICE.

* Not all certifications held by the laboratory are applicable to the results reported in the attached report.
* Accreditation is only applicable to the test methods specified on each scope of accreditation held by Pace National.

State Accreditations

Alabama	40660						
Alaska	17-026						
Arizona	AZ0612						
Arkansas	88-0469						
California	2932						
Colorado	TN00003						
Connecticut	PH-0197						
Florida	E87487						
Georgia	NELAP						
Georgia ¹	923						
Idaho	TN00003						
Illinois	200008						
Indiana	C-TN-01						
Iowa	364						
Kansas	E-10277						
Kentucky ^{1 6}	90010						
Kentucky ²	16						
Louisiana	Al30792						
Louisiana ¹	LA180010						
Maine	TN0002						
Maryland	324						
Massachusetts	M-TN003						
Michigan	9958						
Minnesota	047-999-395						
Mississippi	TN00003						
Missouri	340						
Montana	CERT0086						

Nebraska	NE-OS-15-05
Nevada	TN-03-2002-34
New Hampshire	2975
New Jersey-NELAP	TN002
New Mexico ¹	n/a
New York	11742
North Carolina	Env375
North Carolina ¹	DW21704
North Carolina ³	41
North Dakota	R-140
Ohio-VAP	CL0069
Oklahoma	9915
Oregon	TN200002
Pennsylvania	68-02979
Rhode Island	LAO00356
South Carolina	84004
South Dakota	n/a
Tennessee 1 4	2006
Texas	T104704245-18-15
Texas ⁵	LAB0152
Utah	TN00003
Vermont	VT2006
Virginia	460132
Washington	C847
West Virginia	233
Wisconsin	9980939910
Wyoming	A2LA

Third Party Federal Accreditations

A2LA – ISO 17025	1461.01
A2LA - ISO 17025 5	1461.02
Canada	1461.01
EPA-Crypto	TN00003

AIHA-LAP,LLC EMLAP	100789
DOD	1461.01
USDA	P330-15-00234

¹ Drinking Water ² Underground Storage Tanks ³ Aquatic Toxicity ⁴ Chemical/Microbiological ⁵ Mold ⁶ Wastewater n/a Accreditation not applicable

Our Locations

Pace National has sixty-four client support centers that provide sample pickup and/or the delivery of sampling supplies. If you would like assistance from one of our support offices, please contact our main office. Pace National performs all testing at our central laboratory.



















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	65

		Billing Information:				Analysis / Container / Preservative									Chain of Custody Page of			
			ATTN: Jennifer Deal Email To: jdeal@hilcorp.com; khoekstra@hil			Pres Chk	DESCRIPTION OF THE PROPERTY OF								Pace Analytical* National Center for Testing & Innovation			
Report to: Jennifer Deal						hilcorp				-			# P		12065 Lebanon Rd Mount Juliet, TN 37	7122		
Project Description: Dawson Gas Com 1	Pipeline L	eak		City/State Collected: Aztec, NM										V 4.5	Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859			
Phone: 505-324-5128 Fax:	Client Project	#	-	Lab Project	Lab Project #		GRO, MRO	1		10						L# /24	(5027	
Collected by (print): K Hoekstra	Site/Facility II Dawson G		e Leak	P.O.#											Acctnum: HIL			
Collected by (signature):		Lab MUST Be		Quote #	Davids Noveled		5 - DRO,		300.0							Template: Prelogin:		
Immediately Packed on Ice N YX	Two Day	y 10 D	ay (Rad Only)	Date	Results Needed	No. of	-801	(80%			-				TSR:			
Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	Cntrs	ТРН	BTE	Chic							Shipped Via:	Sample # (lab only	
Down Gradient from Source	Grab	SS	7'	7-28-2	2:45	1	×	X	×					10 10 10 10 10 10 10 10 10 10 10 10 10 1			-01	
								15 m		(Sec. 14.12)								
		A Austin	4 2		# 1/4 At													
		45											-					
	mar 150 m		19.00						-									
								1 5						33	P. Carlot			
Education of the second			-													2 E36.2		
* Matrix: SS - Soil AIR - Air F - Filter GW - Groundwater B - Bioassay WW - WasteWater	Remarks:				<u>'</u>					pH _		Temp_		COC	Seal P Signed	ple Receipt C Present/Intact M/Accurate: Trive intact:		
DW - Drinking Water OT - Other	Samples retur UPS Fe	ned via: dEx Cou	ırier		Tracking #	150	co	od	1.	740		Other_		Corr	ect bo	ttles used: volume sent: If Applicab		
Relinquisped by: (Signature)		Date: 7-29		ime: 7:00	Received by: (Sign	nature)		-		Trip Blank	Receive	НС	CL MeoH	Pres	ervati	deadspace: on Correct/Ch	ecked: _Y _	
Relinquished by : (Signature)		Date:		Time: Received by: (Signat						Temp: A C Bottles Received:				If pre	If preservation required by Login: Date/Tin			
Relinquished by : (Signature)		Date:	Т	ime:	Received for lab b	y: (Signa	ture)			Date: 1/3/	ha	Time:	7:00	Hold:			Condition:	

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II 811 S. First St., Artesia, NM 88210 Phone:(575) 748-1283 Fax:(575) 748-9720

District III 1000 Rio Brazos Rd., Aztec, NM 87410 Phone:(505) 334-6178 Fax:(505) 334-6170

1220 S. St Francis Dr., Santa Fe, NM 87505 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 9759

CONDITIONS

Operator:	OGRID:
HILCORP ENERGY COMPANY	372171
1111 Travis Street	Action Number:
Houston, TX 77002	9759
	Action Type:
	[C-141] Release Corrective Action (C-141)

CONDITIONS

Created By	Condition	Condition Date
csmith	None	6/24/2021