

August 16, 2017

HACK CONDER

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: J-4-2-11

### **APPROVED**

By Olivia Yu at 11:09 am, Sep 01, 2017

NMOCD approves of the delineation completed for 1RP-4736. The Responsible Operator understood that delineating while remediating was conducted at risk.

Enclosed are the results of analyses for samples received by the laboratory on 08/15/17 13:45.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

Celey D. Freene

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



DCP Midstream - Midland HACK CONDER 10 Desta Dr., #400-W Midland TX, 79705 Fax To: None

Received: 08/15/2017
Reported: 08/16/2017
Project Name: 14.3.11

Project Name: J-4-2-11
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/15/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: WEST WALL @ 2' (H702153-01)

BTEX 8021B	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2017	ND	1.76	87.8	2.00	0.361	
Toluene*	< 0.050	0.050	08/16/2017	ND	1.66	83.0	2.00	0.138	
Ethylbenzene*	<0.050	0.050	08/16/2017	ND	1.74	86.9	2.00	0.0139	
Total Xylenes*	<0.150	0.150	08/16/2017	ND	5.21	86.9	6.00	0.0482	
Total BTEX	<0.300	0.300	08/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	104 %	% 72-148	}						
TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/16/2017	ND	179	89.7	200	3.10	
DRO >C10-C28	1760	10.0	08/16/2017	ND	184	91.9	200	6.40	
EXT DRO >C28-C36	379	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	86.2	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	124 9	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whistoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results related only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celey D. Keine



DCP Midstream - Midland HACK CONDER 10 Desta Dr., #400-W Midland TX, 79705 Fax To: None

Received: 08/15/2017 Reported:

08/16/2017 J-4-2-11

Project Name: Project Number: NONE GIVEN Project Location: **NOT GIVEN** 

Sampling Date: 08/15/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: EAST WALL @ 2' (H702153-02)

mg/	/kg	Analyze	d By: MS					
Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
<0.050	0.050	08/16/2017	ND	1.76	87.8	2.00	0.361	
0.961	0.050	08/16/2017	ND	1.66	83.0	2.00	0.138	
1.39	0.050	08/16/2017	ND	1.74	86.9	2.00	0.0139	
4.64	0.150	08/16/2017	ND	5.21	86.9	6.00	0.0482	
6.99	0.300	08/16/2017	ND					
PID 1479	% 72-148	·						
	Result <0.050 <b>0.961 1.39 4.64 6.99</b>	Result         Reporting Limit           <0.050	Result         Reporting Limit         Analyzed           <0.050	<0.050	Result         Reporting Limit         Analyzed         Method Blank         BS           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC           <0.050	Result         Reporting Limit         Analyzed         Method Blank         BS         % Recovery         True Value QC         RPD           <0.050

TDU 004 FM			
Surrogate: 4-Bromofluorobenzene (PID	147 %	72-148	

TPH 8015M	mg	/kg	Analyze	d By: MS					S-06
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	271	50.0	08/16/2017	ND	179	89.7	200	3.10	
DRO >C10-C28	5660	50.0	08/16/2017	ND	184	91.9	200	6.40	
EXT DRO >C28-C36	1090	50.0	08/16/2017	ND					

Surrogate: 1-Chlorooctane 117 % 28.3-164 Surrogate: 1-Chlorooctadecane 166 % 34.7-157

Cardinal Laboratories \*=Accredited Analyte

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Celeg Ditrene



DCP Midstream - Midland HACK CONDER 10 Desta Dr., #400-W Midland TX, 79705 Fax To: None

Received: 08/15/2017 Reported:

08/16/2017

Project Name: J-4-2-11 Project Number: NONE GIVEN Project Location: **NOT GIVEN** 

Sampling Date: 08/15/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: BOTTOM @ 5' (H702153-03)

BTEX 8021B	mg/	'kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Benzene*	<0.050	0.050	08/16/2017	ND	1.76	87.8	2.00	0.361	
Toluene*	<0.050	0.050	08/16/2017	ND	1.66	83.0	2.00	0.138	
Ethylbenzene*	<0.050	0.050	08/16/2017	ND	1.74	86.9	2.00	0.0139	
Total Xylenes*	<0.150	0.150	08/16/2017	ND	5.21	86.9	6.00	0.0482	
Total BTEX	<0.300	0.300	08/16/2017	ND					
Surrogate: 4-Bromofluorobenzene (PID	105 9	% 72-148							
Chloride, SM4500Cl-B	mg/	'kg	Analyze	d By: AC					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
Chloride	96.0	16.0	08/16/2017	ND	416	104	400	3.77	
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	10.0	10.0	08/16/2017	ND	179	89.7	200	3.10	
DRO >C10-C28	971	10.0	08/16/2017	ND	184	91.9	200	6.40	
EXT DRO >C28-C36	215	10.0	08/16/2017	ND					
Surrogate: 1-Chlorooctane	83.5	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	96.4	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

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### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celey D. Keine

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	me: DCP Midstream		BILL TO	9				ANA	ANALYSIS R	REQUEST
Project Manager:		90	P.O. #:		$\exists$	1	1	1	_	
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City:	State:	Zip:	Attn:				_	on		
Phone #:	Fax#:		Address:					\ni		
Project #:	Project Owner		City:		_		Н	s/A		
Project Name:			State: Zip:	es	_		_	ons		
Project Location:	ion: 3-4-2-/		#	rid	_	E>		atic	os	
Sampler Name	Sampler Name: Kyle Norman		Fax#:	nlo	_		_	Ca		
FOR LAB USE DAILY		MATRIX	PRESERV.	SAMPLING	PH		ex	te	1	
Lab I.D. H702153		(G)RAB OR (C)OMP # CONTAINERS GROUNDWATER WASTEWATER SOIL OIL	SLUDGE OTHER: ACID/BASE: ICE / COOL OTHER: DATE	TIME			Ť	Complet		
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PLEASE NOTE: Liability and Damisges. Ca analyses. All claims, including those for neg	rdinal's liability and clie	y claim arising whether based in contemed waved unless made in writing	The critishive remedy for any claim arising whether based in contract or tott, shall be limited to the amount paid by the client for the authorized within 30 days after completion of the all	paid by the client for the application of the appli	Cable .					
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Relinquis led By:	By: Date:	Redeived By:		email results: hpconder@oyblair@dcpmidstream.com	ults:	hpc	onde	er@c	cpmids	email results: hpconder@dcpmidstream.com yblair@dcpmidstream.com
Delivered By: Sampler - UPS -	Sampler - UPS - Bus - Other: 175 2.256 2.80	Sample Condition Cool Intact Pes Pres	ition CHECKED BY:	knorman@tasman-geo.com:	@tas	man	-geo	.com		

t Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476 C



August 18, 2017

HACK CONDER

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: J-4-2-11

Enclosed are the results of analyses for samples received by the laboratory on 08/17/17 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Keine

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



DCP Midstream - Midland HACK CONDER 10 Desta Dr., #400-W Midland TX, 79705 Fax To: None

Received: 08/17/2017
Reported: 08/18/2017
Project Name: J-4-2-11

Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: EAST WALL @ 3' (H702194-01)

TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/18/2017	ND	187	93.7	200	2.06	
DRO >C10-C28	<10.0	10.0	08/18/2017	ND	191	95.4	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	08/18/2017	ND					
Surrogate: 1-Chlorooctane	91.6%	6 28.3-16							
Surrogate: 1-Chlorooctadecane	9989	6 347-15	7						

### Sample ID: WEST WALL @ 3' (H702194-02)

TPH 8015M	mg/	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/18/2017	ND	187	93.7	200	2.06	
DRO >C10-C28	<10.0	10.0	08/18/2017	ND	191	95.4	200	3.61	
EXT DRO >C28-C36	<10.0	10.0	08/18/2017	ND					
Surrogate: 1-Chlorooctane	80.2 9	28.3-16	4						
Surrogate: 1-Chlorooctadecane	85.1 9	% 34.7-15	7						

### Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Keene



DCP Midstream - Midland HACK CONDER 10 Desta Dr., #400-W Midland TX, 79705 Fax To: None

Received: 08/17/2017 Reported: 08/18/2017

Project Name: J-4-2-11
Project Number: NONE GIVEN
Project Location: NOT GIVEN

Sampling Date: 08/17/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact
Sample Received By: Jodi Henson

### Sample ID: VERTICAL #1 @ 6' (H702194-03)

TPH 8015M	mg	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	31.9	10.0	08/18/2017	ND	187	93.7	200	2.06	
DRO >C10-C28	1890	10.0	08/18/2017	ND	191	95.4	200	3.61	
EXT DRO >C28-C36	410	10.0	08/18/2017	ND					

Surrogate: 1-Chlorooctane 94.5 % 28.3-164
Surrogate: 1-Chlorooctadecane 119 % 34.7-157

### Sample ID: VERTICAL #1 @ 9' (H702194-04)

TPH 8015M	mg/l	kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/18/2017	ND	187	93.7	200	2.06	
DRO >C10-C28	<10.0	10.0	08/18/2017	ND	191	95.4	200	3.61	
EXT DRO >C28-C36	11.2	10.0	08/18/2017	ND					
Surrogate: 1-Chlorooctane	82.9 %	6 28.3-16							
Surrogate: 1-Chlorooctadecane	86.0 %	6 34.7-15	7						

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Celey D. Keine



### **Notes and Definitions**

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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Celeg D. Freene



## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

State: Zip: Attn:  Fax #: Project Owner: Company:  Project Owner: City: Attn:  Fax #: Address: City: State: Zip:  Phone #: Phone #: Preserv. Sampling  OTHER: ACID/BASE: ICE / COOL  OTHER: 8/17/7 0900  Chlorides  Chlorides	TPH 8015 M EAT	Project Manager: Hock Conder	BILL	100				ANALYSIS	PLT.
State: Zip: Attn:  Fax #: Address:  Project Owner: City: Attn:  Attn: Attn	TPH 8015 M EAT	Address:	7.0.						
Project Owner:  Project Owner:  Project Owner:  Address:  Address:  Address:  City:  State: Zip:  Phone #:  Fax #:  Address:  Phone #:  Fax #:  Address:  Phone #:  Fax #:  Address:  City:  City:  City:  Phone #:  Fax #:  Address:  Phone #:  Fax #:  Address:  City:  Ci	TPH 8015 M EAT							_	9
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or successions are single for incidental of connection of each relation because in writing and received by Cardinal which 30 days after competing of successions are single or related to the performance of services harsonder by Cardinal implation, business interruptions, loss of late, or loss of profits incurring by client, its subsidiaries, quils hed, By:  Date X / J ARcel Ved By:	The state of the s	0元年	di Jensen	Fax Result: REMARKS:	20	1.1.1	1919	ON D	No Add'l Phone #:
citate be labele for incidental or come measurement shall be determed wheved unless an extent and excellent within 30 days after cost of or related to the performance of envirous thereunder by Continual regardless of whether such callings in the above stated to the performance of envirous thereunder by Continual regardless of whether such calling is observed upon any of the above stated has a fine of the above stated to the performance of the above stated by the continual regardless of whether such calling is observed upon any of the above stated has a fine of the above stated to the performance of the above stated to the performance of the above stated by the continual regardless of whether such calling is obtained by the above stated to the performance of the above stated by the continual regardless of whether such calling is obtained by the continual regardless of whether such calling is obtained by the above stated to the performance of the above stated by the continual regardless of whether such calling is obtained by the continual regardless of whether such calling is obtained by the continual regardless of whether such calling is obtained by the continual regardless of whether such calling is obtained by the continual regardless of whether such calling is obtained by the continual regardless of whether such calling is obtained by the continual regardless of whether such calling is obtained by the continual regardless of whether such calling is obtained by the continual regardless of whether such calling is obtained by the continual regardless of whether such calling is obtained by the continual regardless of the continu	Phone Result: 1 Yes Fax Result: 1 Yes REMARKS: 1 Yes	Circle One) Time:  Bus - Other:#75 4,45°4	Sample Condition CHECKED & Cool Intact Multiples Yes Gives Gives Wes Gives Giv	email results: hp yblair@dcpmidst knorman@tasma	ults:	hpcc dstreaman-	111	nder am.c. geo.c	conder@dcpmidstream.com ream.com in-geo.com:



August 24, 2017

HACK CONDER

DCP Midstream - Midland

10 Desta Dr., #400-W

Midland, TX 79705

RE: J-4-2-11

Enclosed are the results of analyses for samples received by the laboratory on 08/17/17 16:20.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-16-8. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (\*). For a complete list of accredited analytes and matrices visit the TCEQ website at <a href="https://www.tceq.texas.gov/field/ga/lab">www.tceq.texas.gov/field/ga/lab</a> accred certif.html.

Cardinal Laboratories is accreditated through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2 Haloacetic Acids (HAA-5)
Method EPA 524.2 Total Trihalomethanes (TTHM)
Method EPA 524.4 Regulated VOCs (V1, V2, V3)

Celey D. Kreene

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene

Lab Director/Quality Manager



DCP Midstream - Midland HACK CONDER 10 Desta Dr., #400-W Midland TX, 79705

None

Fax To:

Received: 08/17/2017 Reported: 08/24/2017 Project Name: J-4-2-11 Project Number:

NONE GIVEN NOT GIVEN

Sampling Date: 08/17/2017

Sampling Type: Soil

Sampling Condition: Cool & Intact Sample Received By: Jodi Henson

### Sample ID: VERTICAL #1 @ 13' (H702196-01)

Project Location:

	-	-							
TPH 8015M	mg/	/kg	Analyze	d By: MS					
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C10	<10.0	10.0	08/21/2017	ND	177	88.5	200	2.45	
DRO >C10-C28	<10.0	10.0	08/21/2017	ND	176	87.8	200	4.19	
EXT DRO >C28-C36	<10.0	10.0	08/21/2017	ND					
Surrogate: 1-Chlorooctane	87.4	% 28.3-16	4						
Surrogate: 1-Chlorooctadecane	91.7	% 34.7-15	7						

Cardinal Laboratories \*=Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.

Celeg Ditrene



### **Notes and Definitions**

S-06 The recovery of this surrogate is outside control limits due to sample dilution required from high analyte concentration and/or

matrix interference's.

QM-07 The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS

ecovery.

ND Analyte NOT DETECTED at or above the reporting limit

RPD Relative Percent Difference

\*\* Samples not received at proper temperature of 6°C or below.

\*\*\* Insufficient time to reach temperature.

- Chloride by SM4500Cl-B does not require samples be received at or below 6°C

Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories \*=Accredited Analyte

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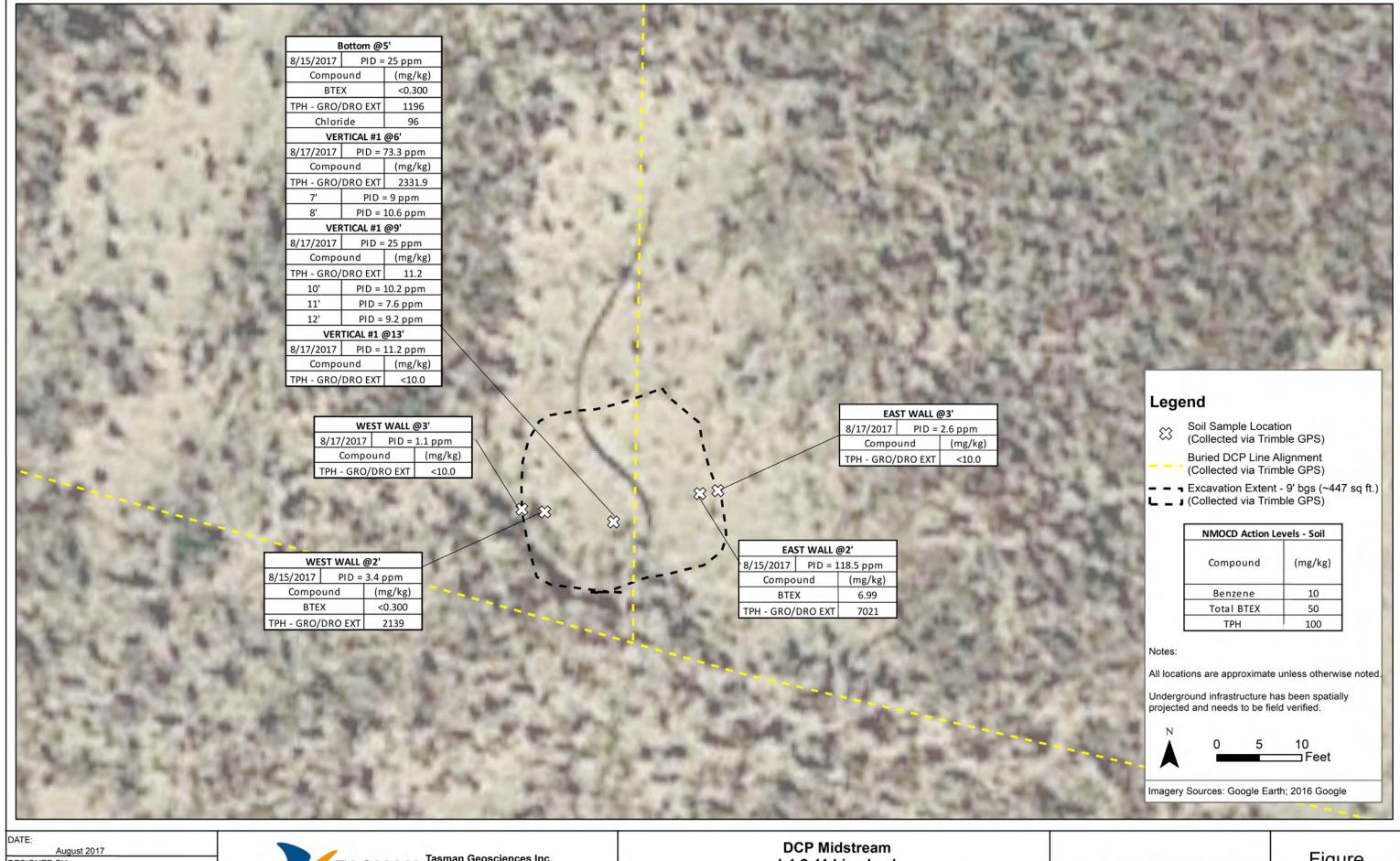
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## CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603 (505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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DATE:
August 2017

DESIGNED BY:
K. Norman

DRAWN BY:
D. Arnold



J-4-2-11 Line Leak
NESE Section 35, Township 19 South, Range 34 East
Lea County, New Mexico

Soil Analytical Results Map Figure 1

