10450 Stancliff Rd. Suite 210
Houston, TX 77099
T: +1 281 530 5656
F: +1 281 530 5887

February 03, 2023

Max Trehus
PDC Energy
4000 Burlington Ave.
Evans, CO 80620

Work Order: **HS23010971**

Laboratory Results for: **Wilson IC 03-342HNX**

Dear Max Trehus ,

ALS Environmental received 2 sample(s) on Jan 20, 2023 for the analysis presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Generated By: DAYNA.FISHER
Tyler Monroe

Client: PDC Energy
Project: Wilson IC 03-342HNX
Work Order: HS23010971

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23010971-01	03-342HNX A	Water		16-Jan-2023 15:30	20-Jan-2023 10:10	☐
HS23010971-02	03-342HNX B	Water		16-Jan-2023 15:30	20-Jan-2023 10:10	☐

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy **CASE NARRATIVE**
Project: Wilson IC 03-342HNX
Work Order: HS23010971

GC Semivolatiles by Method RSK-175

Batch ID: R426549

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

GC Semivolatiles by Method SW8015M

Batch ID: 188692

Sample ID: 03-342HNX A (HS23010971-01)

• The surrogate recoveries could not be determined due to dilution below the calibration range.

GC Volatiles by Method SW8015

Batch ID: R426417

Sample ID: 03-342HNX A (HS23010971-01)

• Surrogate failed outside of control limits high due to sample matrix. This was confirmed by sample reanalysis.

GCMS Volatiles by Method SW8260

Batch ID: R426468

Sample ID: 03-342HNX A (HS23010971-01)

• Lowest practical dilution due to sample matrix and/or high concentration of non-target analyte(s).

Metals by Method E200.8

Batch ID: 189244

Sample ID: 03-342HNX A (HS23010971-01)

• Sample ran at a 5X dilution due to high concentration of Calcium.

Sample ID: HS23011125-01MS

• MS and MSD are for an unrelated sample

Sample ID: HS23011317-01MS

• MS and MSD are for an unrelated sample

Batch ID: 189209

Sample ID: 03-342HNX B (HS23010971-02)

• Sample ran at a 5X dilution due to high concentration of Calcium.

Sample ID: 03-342HNX B (HS23010971-02MS)

• The MS and/or MSD recovery was outside of the control; however, the result in the parent sample is greater than 4x the spike amount. Calcium, Potassium, Sodium.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy **CASE NARRATIVE**
Project: Wilson IC 03-342HNX
Work Order: HS23010971

WetChemistry by Method E300

Batch ID: R427083

Sample ID: HS23011120-03MS

• MS and MSD are for an unrelated sample (Sulfate)

Sample ID: HS23011120-13MS

• MS and MSD are for an unrelated sample (Sulfate)

WetChemistry by Method SM2320B

Batch ID: R426746

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

WetChemistry by Method M2540C

Batch ID: R426476

• The test results meet requirements of the current NELAP standards, state requirements or programs where applicable.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
Sample ID: 03-342HNX A
Collection Date: 16-Jan-2023 15:30

ANALYTICAL REPORT
WorkOrder:HS23010971
Lab ID:HS23010971-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: AKP
Benzene	U		100	500	ug/L	500	25-Jan-2023 05:59
Ethylbenzene	U		150	500	ug/L	500	25-Jan-2023 05:59
m,p-Xylene	**560**	J	**250**	**1000**	**ug/L**	500	25-Jan-2023 05:59
o-Xylene	**350**	J	**150**	**500**	**ug/L**	500	25-Jan-2023 05:59
Toluene	**250**	J	**100**	**500**	**ug/L**	500	25-Jan-2023 05:59
Xylenes, Total	**920**		**150**	**500**	**ug/L**	500	25-Jan-2023 05:59
Surr: 1,2-Dichloroethane-d4	*98.3*			*70-126*	*%REC*	*500*	*25-Jan-2023 05:59*
Surr: 4-Bromofluorobenzene	*99.1*			*77-113*	*%REC*	*500*	*25-Jan-2023 05:59*
Surr: Dibromofluoromethane	*97.4*			*77-123*	*%REC*	*500*	*25-Jan-2023 05:59*
Surr: Toluene-d8	*98.8*			*82-127*	*%REC*	*500*	*25-Jan-2023 05:59*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**					Analyst: PJM
Gasoline Range Organics	**423**		**5.00**	**25.0**	**mg/L**	500	24-Jan-2023 09:58
Surr: 4-Bromofluorobenzene	*795*	*S*		*70-123*	*%REC*	*500*	*24-Jan-2023 09:58*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**					Analyst: PPM
Ethane	**148**		**3.60**	**25.0**	**ug/L**	25	25-Jan-2023 12:40
Methane	**378**		**2.68**	**12.5**	**ug/L**	25	25-Jan-2023 12:40
Propane	**76.4**		**1.00**	**1.00**	**ug/L**	1	25-Jan-2023 11:20
TPH DRO/ORO BY SW8015C		**Method:SW8015M**			Prep:SW3511 / 23-Jan-2023		Analyst: PPM
TPH (Diesel Range)	**540**		**2.0**	**5.1**	**mg/L**	100	25-Jan-2023 14:31
Surr: 2-Fluorobiphenyl	*0*	*JS*		*60-135*	*%REC*	*100*	*25-Jan-2023 14:31*
TOTAL METALS BY E200.8, REV 5.4, 1994		**Method:E200.8**			Prep:E200.8 / 02-Feb-2023		Analyst: JC
Calcium	**2,650**		**9.00**	**250**	**mg/L**	500	03-Feb-2023 13:17
Magnesium	**0.137**	J	**0.0390**	**2.50**	**mg/L**	5	02-Feb-2023 21:56
Potassium	**342**		**0.165**	**2.50**	**mg/L**	5	02-Feb-2023 21:56
Sodium	**600**		**0.105**	**1.00**	**mg/L**	5	02-Feb-2023 21:56
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**					Analyst: TH
Chloride	**6,280**		**40.0**	**100**	**mg/L**	200	01-Feb-2023 11:48
Sulfate	**1,700**		**10.0**	**25.0**	**mg/L**	50	01-Feb-2023 11:42
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**					Analyst: DC
Total Dissolved Solids (Residue, Filterable)	**28,700**		**5.00**	**10.0**	**mg/L**	1	23-Jan-2023 10:40
ALKALINITY BY SM 2320B-2011		**Method:SM2320B**					Analyst: JAC
Alkalinity, Bicarbonate (As CaCO3)	**49.2**		**5.00**	**5.00**	**mg/L**	1	26-Jan-2023 19:02
Alkalinity, Carbonate (As CaCO3)	**95.2**		**5.00**	**5.00**	**mg/L**	1	26-Jan-2023 19:02
Alkalinity, Total (As CaCO3)	**144**		**5.00**	**5.00**	**mg/L**	1	26-Jan-2023 19:02

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
Sample ID: 03-342HNX B
Collection Date: 16-Jan-2023 15:30

ANALYTICAL REPORT
WorkOrder:HS23010971
Lab ID:HS23010971-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
DISSOLVED METALS BY E200.8, REV 5.4, 1994	**Method:E200.8 (dissolved)**				Prep:E200.8 / 01-Feb-2023		Analyst: JC
Calcium	**3,050**		**0.900**	**25.0**	**mg/L**	50	03-Feb-2023 13:11
Magnesium	**0.131**	J	**0.0390**	**2.50**	**mg/L**	5	02-Feb-2023 18:38
Potassium	**321**		**0.165**	**2.50**	**mg/L**	5	02-Feb-2023 18:38
Sodium	**580**		**0.105**	**1.00**	**mg/L**	5	02-Feb-2023 18:38

Note: See Qualifiers Page for a list of qualifiers and their explanation.

RIGHT SOLUTIONS | RIGHT PARTNER

Weight / Prep Log

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

Batch ID: 188692 **Start Date:** 23 Jan 2023 12:30 **End Date:** 24 Jan 2023 13:00
Method: SW3511 **Prep Code:** 3511_DRO

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23010971-01		32.39 (mL)	2 (mL)	0.06175	40 mL Amber

Batch ID: 188864 **Start Date:** 25 Jan 2023 16:30 **End Date:** 25 Jan 2023 17:00
Method: SAMPLE FILTRATION - 0.45 MICRON FILTER **Prep Code:** FILTRATION

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23010971-02		100 (mL)	100 (mL)	1	250 mL plastic, Neat

Batch ID: 189209 **Start Date:** 01 Feb 2023 13:30 **End Date:** 01 Feb 2023 17:30
Method: DISSOLVED METALS DIGESTION BY E200.8,REV 5.4,1994 **Prep Code:** 200.8_DISSPR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23010971-02		10 (mL)	10 (mL)	1	250 mL plastic, Neat

Batch ID: 189244 **Start Date:** 02 Feb 2023 08:30 **End Date:** 02 Feb 2023 12:30
Method: TOTAL METALS PREP BY E200.8, REV 5.4, 1994 **Prep Code:** 200.8PR

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23010971-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 188692 (1)	**Test Name :** TPH DRO/ORO BY SW8015C				**Matrix:** Water	
HS23010971-01	03-342HNX A	16 Jan 2023 15:30		23 Jan 2023 08:41	25 Jan 2023 14:31	100
Batch ID: 189209 (0)	**Test Name :** DISSOLVED METALS BY E200.8, REV 5.4, 1994				**Matrix:** Water	
HS23010971-02	03-342HNX B	16 Jan 2023 15:30		01 Feb 2023 13:30	03 Feb 2023 13:11	50
HS23010971-02	03-342HNX B	16 Jan 2023 15:30		01 Feb 2023 13:30	02 Feb 2023 18:38	5
Batch ID: 189244 (0)	**Test Name :** TOTAL METALS BY E200.8, REV 5.4, 1994				**Matrix:** Water	
HS23010971-01	03-342HNX A	16 Jan 2023 15:30		02 Feb 2023 08:30	03 Feb 2023 13:17	500
HS23010971-01	03-342HNX A	16 Jan 2023 15:30		02 Feb 2023 08:30	02 Feb 2023 21:56	5
Batch ID: R426417 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Water	
HS23010971-01	03-342HNX A	16 Jan 2023 15:30			24 Jan 2023 09:58	500
Batch ID: R426468 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS23010971-01	03-342HNX A	16 Jan 2023 15:30			25 Jan 2023 05:59	500
Batch ID: R426476 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C-2011				**Matrix:** Water	
HS23010971-01	03-342HNX A	16 Jan 2023 15:30			23 Jan 2023 10:40	1
Batch ID: R426549 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS23010971-01	03-342HNX A	16 Jan 2023 15:30			25 Jan 2023 12:40	25
HS23010971-01	03-342HNX A	16 Jan 2023 15:30			25 Jan 2023 11:20	1
Batch ID: R426746 (0)	**Test Name :** ALKALINITY BY SM 2320B-2011				**Matrix:** Water	
HS23010971-01	03-342HNX A	16 Jan 2023 15:30			26 Jan 2023 19:02	1
Batch ID: R427083 (0)	**Test Name :** ANIONS BY E300.0, REV 2.1, 1993				**Matrix:** Water	
HS23010971-01	03-342HNX A	16 Jan 2023 15:30			01 Feb 2023 11:48	200
HS23010971-01	03-342HNX A	16 Jan 2023 15:30			01 Feb 2023 11:42	50

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: 188692 (1) **Instrument: FID-16** **Method: TPH DRO/ORO BY SW8015C**

MBLK Sample ID: **MBLK-188692** Units: **mg/L** Analysis Date: **25-Jan-2023 12:04**
Client ID: Run ID: **FID-16_426538** SeqNo: **7088875** PrepDate: **23-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	U	0.050								
Surr: 2-Fluorobiphenyl	*0.05837*	*0.0050*	*0.06*	*0*	*97.3*	*60 - 135*				

LCS Sample ID: **LCS-188692** Units: **mg/L** Analysis Date: **25-Jan-2023 12:33**
Client ID: Run ID: **FID-16_426538** SeqNo: **7088876** PrepDate: **23-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	0.6517	0.050	0.6	0	109	70 - 130				
Surr: 2-Fluorobiphenyl	*0.06986*	*0.0050*	*0.06*	*0*	*116*	*60 - 135*				

LCSD Sample ID: **LCSD-188692** Units: **mg/L** Analysis Date: **25-Jan-2023 13:02**
Client ID: Run ID: **FID-16_426538** SeqNo: **7088877** PrepDate: **23-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	0.7045	0.050	0.6	0	117	70 - 130	0.6517	7.79	20	
Surr: 2-Fluorobiphenyl	*0.06916*	*0.0050*	*0.06*	*0*	*115*	*60 - 135*	*0.06986*	*1.01*	*20*	

The following samples were analyzed in this batch: HS23010971-01

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: R426549 (0) **Instrument: FID-4** **Method: DISSOLVED GASES BY RSK-175**

MBLK Sample ID: **MBLK-230125** Units: **ug/L** Analysis Date: **25-Jan-2023 10:09**
Client ID: Run ID: **FID-4_426549** SeqNo: **7089097** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	U	1.00								
Methane	U	0.500								
Propane	U	1.00								

LCS Sample ID: **LCS-230125** Units: **ug/L** Analysis Date: **25-Jan-2023 10:23**
Client ID: Run ID: **FID-4_426549** SeqNo: **7089098** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	19.35	1.00	18.04	0	107	75 - 125				
Methane	10.53	0.500	9.647	0	109	75 - 125				
Propane	31.83	1.00	26.46	0	120	75 - 125				

LCSD Sample ID: **LCSD-230125** Units: **ug/L** Analysis Date: **25-Jan-2023 10:37**
Client ID: Run ID: **FID-4_426549** SeqNo: **7089099** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	20.23	1.00	18.04	0	112	75 - 125	19.35	4.45	30	
Methane	9.628	0.500	9.647	0	99.8	75 - 125	10.53	8.96	30	
Propane	31.53	1.00	26.46	0	119	75 - 125	31.83	0.94	30	

The following samples were analyzed in this batch: HS23010971-01

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: R426417 (0) **Instrument:** FID-20 **Method:** GASOLINE RANGE ORGANICS BY SW8015C

MBLK Sample ID: **MBLK-230124** Units: **mg/L** Analysis Date: **24-Jan-2023 09:31**
Client ID: Run ID: **FID-20_426417** SeqNo: **7085923** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	U	0.0500								
Surr: 4-Bromofluorobenzene	*0.09042*	*0.00500*	*0.1*	*0*	*90.4*	*70 - 121*				

LCS Sample ID: **LCS-230124** Units: **mg/L** Analysis Date: **24-Jan-2023 09:04**
Client ID: Run ID: **FID-20_426417** SeqNo: **7085921** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.109	0.0500	1	0	111	76 - 124				
Surr: 4-Bromofluorobenzene	*0.07685*	*0.00500*	*0.1*	*0*	*76.9*	*52 - 138*				

LCSD Sample ID: **LCSD-230124** Units: **mg/L** Analysis Date: **24-Jan-2023 09:18**
Client ID: Run ID: **FID-20_426417** SeqNo: **7085922** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	0.96	0.0500	1	0	96.0	76 - 124	1.109	14.4	20	
Surr: 4-Bromofluorobenzene	*0.07235*	*0.00500*	*0.1*	*0*	*72.3*	*52 - 138*	*0.07685*	*6.04*	*20*	

The following samples were analyzed in this batch: HS23010971-01

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: 189209 (0) **Instrument: ICPMS06** **Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)**

MBLK Sample ID: **MBLKF2-189209** Units: **ug/L** Analysis Date: **02-Feb-2023 18:14**
Client ID: Run ID: **ICPMS06_427135** SeqNo: **7105339** PrepDate: **01-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	U	500								
Magnesium	13.88	500								J
Potassium	U	500								
Sodium	70.31	200								J

MBLK Sample ID: **MBLKF1-189209** Units: **ug/L** Analysis Date: **02-Feb-2023 18:12**
Client ID: Run ID: **ICPMS06_427135** SeqNo: **7105338** PrepDate: **01-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	U	500								
Magnesium	14.44	500								J
Potassium	U	500								
Sodium	51.87	200								J

MBLK Sample ID: **MBLK-189209** Units: **ug/L** Analysis Date: **02-Feb-2023 18:09**
Client ID: Run ID: **ICPMS06_427135** SeqNo: **7105337** PrepDate: **01-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	U	500								
Magnesium	13.79	500								J
Potassium	U	500								
Sodium	47.02	200								J

LCS Sample ID: **LCS-189209** Units: **ug/L** Analysis Date: **02-Feb-2023 18:16**
Client ID: Run ID: **ICPMS06_427135** SeqNo: **7105340** PrepDate: **01-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	4558	500	5000	0	91.2	85 - 115				
Magnesium	4982	500	5000	0	99.6	85 - 115				
Potassium	4786	500	5000	0	95.7	85 - 115				
Sodium	4908	200	5000	0	98.2	85 - 115				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: 189209 (0) **Instrument:** ICPMS06 **Method:** DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)

MS Sample ID: **HS23010971-02MS** Units: **ug/L** Analysis Date: **02-Feb-2023 18:40**
Client ID: **03-342HNX B** Run ID: **ICPMS06_427135** SeqNo: **7105347** PrepDate: **01-Feb-2023** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	2681000	2500	5000	2588000	1860	85 - 115				SEO
Magnesium	5460	2500	5000	131.5	107	85 - 115				
Potassium	334000	2500	5000	320900	262	85 - 115				SO
Sodium	594900	1000	5000	580400	290	85 - 115				SO

MSD Sample ID: **HS23010971-02MSD** Units: **ug/L** Analysis Date: **02-Feb-2023 18:42**
Client ID: **03-342HNX B** Run ID: **ICPMS06_427135** SeqNo: **7105348** PrepDate: **01-Feb-2023** DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	2619000	2500	5000	2588000	610	85 - 115	2681000	2.36	20	SEO
Magnesium	5386	2500	5000	131.5	105	85 - 115	5460	1.37	20	
Potassium	325400	2500	5000	320900	90.3	85 - 115	334000	2.61	20	O
Sodium	576400	1000	5000	580400	-78.8	85 - 115	594900	3.15	20	SO

The following samples were analyzed in this batch: HS23010971-02

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: 189244 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MBLK Sample ID: **MBLK-189244** Units: **ug/L** Analysis Date: **02-Feb-2023 21:36**
Client ID: Run ID: **ICPMS06_427135** SeqNo: **7105456** PrepDate: **02-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	U	500								
Magnesium	12.24	500								J
Potassium	U	500								
Sodium	U	200								

LCS Sample ID: **LCS-189244** Units: **ug/L** Analysis Date: **02-Feb-2023 21:38**
Client ID: Run ID: **ICPMS06_427135** SeqNo: **7105457** PrepDate: **02-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	5066	500	5000	0	101	85 - 115				
Magnesium	5160	500	5000	0	103	85 - 115				
Potassium	5098	500	5000	0	102	85 - 115				
Sodium	4941	200	5000	0	98.8	85 - 115				

MS Sample ID: **HS23011317-01MS** Units: **ug/L** Analysis Date: **02-Feb-2023 21:48**
Client ID: Run ID: **ICPMS06_427135** SeqNo: **7105462** PrepDate: **02-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	99740	500	5000	96870	57.5	70 - 130				SO
Magnesium	18190	500	5000	13120	101	70 - 130				
Potassium	28260	500	5000	23500	95.1	70 - 130				O
Sodium	415300	200	5000	425000	-195	70 - 130				SEO

MS Sample ID: **HS23011125-01MS** Units: **ug/L** Analysis Date: **02-Feb-2023 21:42**
Client ID: Run ID: **ICPMS06_427135** SeqNo: **7105459** PrepDate: **02-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	138000	500	5000	131000	142	70 - 130				SO
Magnesium	23250	500	5000	18310	98.8	70 - 130				
Potassium	34660	500	5000	29490	103	70 - 130				O
Sodium	171200	200	5000	167500	73.7	70 - 130				O

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: 189244 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MSD Sample ID: **HS23011317-01MSD** Units: **ug/L** Analysis Date: **02-Feb-2023 21:50**
Client ID: Run ID: **ICPMS06_427135** SeqNo: **7105463** PrepDate: **02-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	98420	500	5000	96870	31.1	70 - 130	99740	1.33	20	SO
Magnesium	18260	500	5000	13120	103	70 - 130	18190	0.409	20	
Potassium	28590	500	5000	23500	102	70 - 130	28260	1.16	20	O
Sodium	418100	200	5000	425000	-138	70 - 130	415300	0.687	20	SEO

MSD Sample ID: **HS23011125-01MSD** Units: **ug/L** Analysis Date: **02-Feb-2023 21:44**
Client ID: Run ID: **ICPMS06_427135** SeqNo: **7105460** PrepDate: **02-Feb-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	136900	500	5000	131000	119	70 - 130	138000	0.835	20	O
Magnesium	23320	500	5000	18310	100	70 - 130	23250	0.315	20	
Potassium	34790	500	5000	29490	106	70 - 130	34660	0.359	20	O
Sodium	172900	200	5000	167500	108	70 - 130	171200	0.99	20	O

The following samples were analyzed in this batch: HS23010971-01

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: R426468 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-230124** Units: **ug/L** Analysis Date: **24-Jan-2023 23:34**
Client ID: Run ID: **VOA7_426468** SeqNo: **7087249** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	U	1.0								
Ethylbenzene	U	1.0								
m,p-Xylene	U	2.0								
o-Xylene	U	1.0								
Toluene	U	1.0								
Xylenes, Total	U	1.0								
Surr: 1,2-Dichloroethane-d4	*49.56*	*1.0*	*50*	*0*	*99.1*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49*	*1.0*	*50*	*0*	*98.0*	*77 - 113*				
Surr: Dibromofluoromethane	*48.75*	*1.0*	*50*	*0*	*97.5*	*73 - 126*				
Surr: Toluene-d8	*49.63*	*1.0*	*50*	*0*	*99.3*	*81 - 120*				

LCS Sample ID: **VLCSW-230124** Units: **ug/L** Analysis Date: **24-Jan-2023 22:51**
Client ID: Run ID: **VOA7_426468** SeqNo: **7087248** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.89	1.0	20	0	94.4	74 - 120				
Ethylbenzene	20.37	1.0	20	0	102	77 - 117				
m,p-Xylene	40.17	2.0	40	0	100	77 - 122				
o-Xylene	20.14	1.0	20	0	101	75 - 119				
Toluene	19.38	1.0	20	0	96.9	77 - 118				
Xylenes, Total	60.31	1.0	60	0	101	75 - 122				
Surr: 1,2-Dichloroethane-d4	*49.9*	*1.0*	*50*	*0*	*99.8*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*50.46*	*1.0*	*50*	*0*	*101*	*77 - 113*				
Surr: Dibromofluoromethane	*47.86*	*1.0*	*50*	*0*	*95.7*	*73 - 126*				
Surr: Toluene-d8	*49.55*	*1.0*	*50*	*0*	*99.1*	*81 - 120*				

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: R426468 (0) **Instrument: VOA7** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS23011081-03MS** Units: **ug/L** Analysis Date: **25-Jan-2023 07:03**
Client ID: Run ID: **VOA7_426468** SeqNo: **7087270** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	105.1	1.0	20	80.1	125	70 - 127				O
Ethylbenzene	22.65	1.0	20	2.313	102	70 - 124				
m,p-Xylene	55.8	2.0	40	14.51	103	70 - 130				
o-Xylene	22.1	1.0	20	2.087	100	70 - 124				
Toluene	23.81	1.0	20	4.519	96.5	70 - 123				
Xylenes, Total	77.89	1.0	60	16.6	102	70 - 130				
Surr: 1,2-Dichloroethane-d4	*49.46*	*1.0*	*50*	*0*	*98.9*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*51.52*	*1.0*	*50*	*0*	*103*	*77 - 113*				
Surr: Dibromofluoromethane	*48.61*	*1.0*	*50*	*0*	*97.2*	*77 - 123*				
Surr: Toluene-d8	*49.5*	*1.0*	*50*	*0*	*99.0*	*82 - 127*				

MSD Sample ID: **HS23011081-03MSD** Units: **ug/L** Analysis Date: **25-Jan-2023 07:25**
Client ID: Run ID: **VOA7_426468** SeqNo: **7087271** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	103.4	1.0	20	80.1	117	70 - 127	105.1	1.55	20	O
Ethylbenzene	22.33	1.0	20	2.313	100	70 - 124	22.65	1.4	20	
m,p-Xylene	55.39	2.0	40	14.51	102	70 - 130	55.8	0.733	20	
o-Xylene	22.09	1.0	20	2.087	100	70 - 124	22.1	0.0171	20	
Toluene	23.63	1.0	20	4.519	95.5	70 - 123	23.81	0.781	20	
Xylenes, Total	77.48	1.0	60	16.6	101	70 - 130	77.89	0.529	20	
Surr: 1,2-Dichloroethane-d4	*46.82*	*1.0*	*50*	*0*	*93.6*	*70 - 126*	*49.46*	*5.48*	*20*	
Surr: 4-Bromofluorobenzene	*50.58*	*1.0*	*50*	*0*	*101*	*77 - 113*	*51.52*	*1.82*	*20*	
Surr: Dibromofluoromethane	*47.97*	*1.0*	*50*	*0*	*95.9*	*77 - 123*	*48.61*	*1.33*	*20*	
Surr: Toluene-d8	*49.58*	*1.0*	*50*	*0*	*99.2*	*82 - 127*	*49.5*	*0.159*	*20*	

The following samples were analyzed in this batch: HS23010971-01

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: R426476 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK Sample ID: **WBLK-01232023** Units: **mg/L** Analysis Date: **23-Jan-2023 10:40**
Client ID: Run ID: **Balance1_426476** SeqNo: **7087407** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	U	10.0								

LCS Sample ID: **LCS-01232023** Units: **mg/L** Analysis Date: **23-Jan-2023 10:40**
Client ID: Run ID: **Balance1_426476** SeqNo: **7087406** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	1072	10.0	1000	0	107	85 - 115				

DUP Sample ID: **HS23010960-01DUP** Units: **mg/L** Analysis Date: **23-Jan-2023 10:40**
Client ID: Run ID: **Balance1_426476** SeqNo: **7087404** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	3624	10.0					3682	1.59	5	

DUP Sample ID: **HS23010937-01DUP** Units: **mg/L** Analysis Date: **23-Jan-2023 10:40**
Client ID: Run ID: **Balance1_426476** SeqNo: **7087400** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Total Dissolved Solids (Residue, Filterable)	58110	10.0					58110	0.00344	5	

The following samples were analyzed in this batch: HS23010971-01

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: R426746 (0) **Instrument: ManTech01** **Method: ALKALINITY BY SM 2320B-2011**

MBLK Sample ID: **MBLK-R426746** Units: **mg/L** Analysis Date: **26-Jan-2023 19:02**
Client ID: Run ID: **ManTech01_426746** SeqNo: **7093761** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00								
Alkalinity, Carbonate (As CaCO3)	U	5.00								
Alkalinity, Total (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-R426746** Units: **mg/L** Analysis Date: **26-Jan-2023 19:02**
Client ID: Run ID: **ManTech01_426746** SeqNo: **7093760** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	1087	5.00	1000	0	109	85 - 115				
Alkalinity, Total (As CaCO3)	1109	5.00	1000	0	111	85 - 115				

LCSD Sample ID: **LCSD-R426746** Units: **mg/L** Analysis Date: **26-Jan-2023 19:02**
Client ID: Run ID: **ManTech01_426746** SeqNo: **7093759** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Carbonate (As CaCO3)	1089	5.00	1000	0	109	85 - 115	1087	0.178	20	
Alkalinity, Total (As CaCO3)	1133	5.00	1000	0	113	85 - 115	1109	2.12	20	

DUP Sample ID: **HS23010780-09DUP** Units: **mg/L** Analysis Date: **26-Jan-2023 19:02**
Client ID: Run ID: **ManTech01_426746** SeqNo: **7093762** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Alkalinity, Bicarbonate (As CaCO3)	U	5.00					0.23	0	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Total (As CaCO3)	U	5.00					0.23	0	20	

The following samples were analyzed in this batch: HS23010971-01

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: R427083 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **01-Feb-2023 11:30**
Client ID: Run ID: **ICS-Integrion_427083** SeqNo: **7102233** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	U	0.500								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **01-Feb-2023 11:36**
Client ID: Run ID: **ICS-Integrion_427083** SeqNo: **7102234** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	20.4	0.500	20	0	102	90 - 110				
Sulfate	20.91	0.500	20	0	105	90 - 110				

MS Sample ID: **HS23011120-13MS** Units: **mg/L** Analysis Date: **01-Feb-2023 14:47**
Client ID: Run ID: **ICS-Integrion_427083** SeqNo: **7102260** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	397.5	5.00	100	305.5	92.0	80 - 120				
Sulfate	427.4	5.00	100	341.9	85.5	80 - 120				

MS Sample ID: **HS23011120-03MS** Units: **mg/L** Analysis Date: **01-Feb-2023 13:08**
Client ID: Run ID: **ICS-Integrion_427083** SeqNo: **7102246** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	51.69	0.500	10	43.02	86.7	80 - 120				O
Sulfate	102.7	0.500	10	97.3	53.6	80 - 120				SEO

MSD Sample ID: **HS23011120-13MSD** Units: **mg/L** Analysis Date: **01-Feb-2023 14:53**
Client ID: Run ID: **ICS-Integrion_427083** SeqNo: **7102261** PrepDate: DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	388.5	5.00	100	305.5	83.0	80 - 120	397.5	2.29	20	
Sulfate	417.3	5.00	100	341.9	75.4	80 - 120	427.4	2.4	20	S

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: HS23010971

QC BATCH REPORT

Batch ID: R427083 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MSD Sample ID: **HS23011120-03MSD** Units: **mg/L** Analysis Date: **01-Feb-2023 13:14**
Client ID: Run ID: **ICS-Integrion_427083** SeqNo: **7102247** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	52.05	0.500	10	43.02	90.4	80 - 120	51.69	0.704	20	O
Sulfate	103.5	0.500	10	97.3	62.4	80 - 120	102.7	0.857	20	SEO

The following samples were analyzed in this batch: HS23010971-01

RIGHT SOLUTIONS | RIGHT PARTNER

Client: PDC Energy
Project: Wilson IC 03-342HNX
WorkOrder: **HS23010971**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL/SDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/L	Milligrams per Liter

RIGHT SOLUTIONS | RIGHT PARTNER

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	22-041-0	27-Mar-2023
California	2919 2022-2023	30-Apr-2023
Dept of Defense	L21-682	31-Dec-2023
Florida	E87611-36	30-Jun-2023
Illinois	2000322022-9	09-May-2023
Kansas	E-10352; 2022-2023	31-Jul-2023
Kentucky	123043, 2022-2023	30-Apr-2023
Louisiana	03087, 2022-2023	30-Jun-2023
Maryland	343, 2022-2023	30-Jun-2023
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2022-2023	30-Apr-2023
Oklahoma	2022-141	31-Aug-2023
Texas	T104704231-22-29	30-Apr-2023
Utah	TX026932022-13	31-Jul-2023

RIGHT SOLUTIONS | RIGHT PARTNER

Sample Receipt Checklist

Work Order ID: HS23010971 **Date/Time Received:** **20-Jan-2023 10:10**

Client Name: PDC Energy 80620 **Received by:** **Corey Grandits**

Completed By:	/S/ Corey Grandits	20-Jan-2023 12:58	**Reviewed by:**	/S/ Tyler Monroe	20-Jan-2023 16:21
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **W** Carrier name: **FedEx**

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
VOA/TX1005/TX1006 Solids in hermetically sealed vials?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	1 Page(s)
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Samplers name present on COC?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	

Temperature(s)/Thermometer(s):	4.0uc/3.5c	IR31
Cooler(s)/Kit(s):	Sm Teal	
Date/Time sample(s) sent to storage:	1/20/23	

Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

RIGHT SOLUTIONS | RIGHT PARTNER

Chain of Custody Form

ALS Environmental

Page _____ of _____

HS23010971

PDC Energy

Wilson IC 03-342HNX

ALS Project Manager:

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Wilson IC 03-342HNX	A	Dissolved Gases (Methane, Ethane, Propane)
Work Order		Project Number		B	BTEX 8260
Company Name	PDC Energy	Bill To Company	PDC Energy	C	DRO 8015
Send Report To	Max Trehus	Invoice Attn.	Max Trehus	D	GRO 8015
Address	4000 Burlington Ave	Address	1775 Sherman St #3000	E	Anions (Cl,SO4), Alk (T, CO3, HCO3), TDS
				F	Dissolved Ca, Mg, K, Na - need to lab filter
City/State/Zip	Evans, CO 80620	City/State/Zip	Denver, CO 80203	G	Total Ca, Mg, K, Na
Phone	720-762-3569	Phone	303-860-5800	H	
Fax		Fax		I	
e-Mail Address	max.trehus@pdce.com Jenifer.Hakkarinen@pdce.com jessica.johannsen@pdce.com	e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	03-342HNX A	1/16/23	15:30	W	8	3	X										
2	03-342HNX A			W	1	3		X									
3	03-342HNX A			W	1	3			X								
4	03-342HNX A			W	1	3				X							
5	03-342HNX A			W	8	1					X						
6	03-342HNX B			W	8	1						X					
7	03-342HNX A			W	2	1							X				
8																	
9																	
10																	

Sampler(s): Please Print & Sign: Max Trehus

Shipment Method:

Required Turnaround Time: ☑ STD 10 Wk Days ☐ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour ☐ Other _____

Results Due Date:

Relinquished by:	Date: 1/17/23	Time: 16:05	Received by:	Notes:	Facility ID: 452192 GM TEAL
Relinquished by:	Date: 1/19/23	Time: 1530	Received by (Laboratory): COOLER 1-20-23 1016	Cooler Temp.	QC Package: (Check Box Below)
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	4.0	X Level II: Standard QC; TRRP-Checklist; Level III: Std QC + Raw Data; TRRP Level IV; Level IV: SW846 CLP-Like; Other: _____

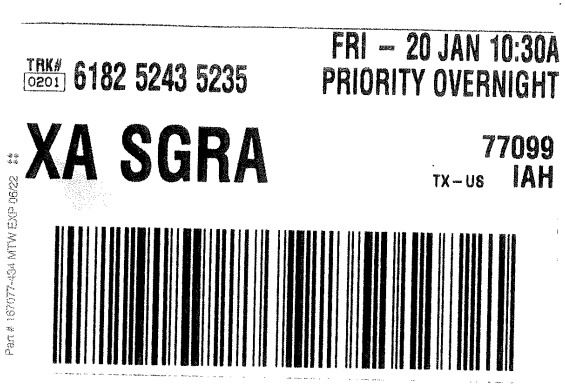
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.

Copyright 2013 by ALS Environmental

2 8°C

RIGHT SOLUTIONS | RIGHT PARTNER



RIGHT SOLUTIONS | RIGHT PARTNER