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April 17, 2023

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

Work Order: **HS23040018**

Laboratory Results for: **Schneider HD11-059HNX**

Dear Max Trehus ,

ALS Environmental received 2 sample(s) on Apr 01, 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: JUMOKE.LAWAL

Tyler Monroe

Client: PDC Energy
Project: Schneider HD11-059HNX
Work Order: HS23040018

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23040018-01	11-059HNX A	Water		30-Mar-2023 12:40	01-Apr-2023 10:15	<input type="checkbox"/>
HS23040018-02	11-059HNX B	Water		30-Mar-2023 12:40	01-Apr-2023 10:15	<input type="checkbox"/>

Client: PDC Energy
Project: Schneider HD11-059HNX
Work Order: HS23040018

CASE NARRATIVE

GC Semivolatiles by Method RSK-175**Batch ID: R431699**

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

GC Semivolatiles by Method SW8015M**Batch ID: 191745****Sample ID: 11-059HNX A (HS23040018-01)**

- Surrogate recoveries were outside of the control limits due to matrix interference.

GC Volatiles by Method SW8015**Batch ID: R431679****Sample ID: 11-059HNX A (HS23040018-01)**

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

GCMS Volatiles by Method SW8260**Batch ID: R432525****Sample ID: 11-059HNX A (HS23040018-01)**

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

Metals by Method E200.8**Batch ID: 192358****Sample ID: HS23040399-03MSD**

- MSD is for an unrelated sample (Calcium,Sodium)

Batch ID: 192348**Sample ID: HS23040087-01MS**

- MS and MSD are for an unrelated sample (Calcium,Sodium)

WetChemistry by Method SM2320B**Batch ID: R432694**

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

WetChemistry by Method M2540C**Batch ID: R431922**

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

Client: PDC Energy
 Project: Schneider HD11-059HNX
 Sample ID: 11-059HNX A
 Collection Date: 30-Mar-2023 12:40

ANALYTICAL REPORT

WorkOrder:HS23040018
 Lab ID:HS23040018-01
 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	13-Apr-2023 07:06
Ethylbenzene	160	J	150	500	ug/L	500	13-Apr-2023 07:06
m,p-Xylene	580	J	250	1000	ug/L	500	13-Apr-2023 07:06
o-Xylene	U		150	500	ug/L	500	13-Apr-2023 07:06
Toluene	260	J	100	500	ug/L	500	13-Apr-2023 07:06
Xylenes, Total	580		150	500	ug/L	500	13-Apr-2023 07:06
Surr: 1,2-Dichloroethane-d4	108			70-126	%REC	500	13-Apr-2023 07:06
Surr: 4-Bromofluorobenzene	99.9			77-113	%REC	500	13-Apr-2023 07:06
Surr: Dibromofluoromethane	97.8			77-123	%REC	500	13-Apr-2023 07:06
Surr: Toluene-d8	103			82-127	%REC	500	13-Apr-2023 07:06
GASOLINE RANGE ORGANICS BY SW8015C		Method:SW8015		Analyst: PJM			
Gasoline Range Organics	108		5.00	25.0	mg/L	500	03-Apr-2023 17:46
Surr: 4-Bromofluorobenzene	209	S		70-123	%REC	500	03-Apr-2023 17:46
DISSOLVED GASES BY RSK-175		Method:RSK-175		Analyst: PPM			
Ethane	43.6		0.144	1.00	ug/L	1	03-Apr-2023 17:35
Methane	142		0.535	2.50	ug/L	5	03-Apr-2023 17:51
Propane	21.8		1.00	1.00	ug/L	1	03-Apr-2023 17:35
TPH DRO/ORO BY SW8015C		Method:SW8015M		Prep:SW3511 / 03-Apr-2023		Analyst: SAM	
TPH (Diesel Range)	54		0.20	0.50	mg/L	10	04-Apr-2023 19:07
Surr: 2-Fluorobiphenyl	325	S		60-135	%REC	10	04-Apr-2023 19:07
TOTAL METALS BY E200.8, REV 5.4, 1994		Method:E200.8		Prep:E200.8 / 14-Apr-2023		Analyst: MSC	
Calcium	122		0.0900	2.50	mg/L	5	17-Apr-2023 13:30
Magnesium	U		0.0390	2.50	mg/L	5	17-Apr-2023 13:30
Potassium	1,210		1.65	25.0	mg/L	50	17-Apr-2023 16:09
Sodium	2,050		1.05	10.0	mg/L	50	17-Apr-2023 16:09
ANIONS BY E300.0, REV 2.1, 1993		Method:E300		Analyst: TH			
Chloride	3,360		40.0	100	mg/L	200	10-Apr-2023 22:24
Sulfate	353		4.00	10.0	mg/L	20	10-Apr-2023 22:19
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		Method:M2540C		Analyst: DC			
Total Dissolved Solids (Residue, Filterable)	12,400		5.00	10.0	mg/L	1	05-Apr-2023 02:30
ALKALINITY BY SM 2320B-2011		Method:SM2320B		Analyst: JAC			
Alkalinity, Bicarbonate (As CaCO3)	U		50.0	50.0	mg/L	10	13-Apr-2023 18:38
Alkalinity, Carbonate (As CaCO3)	829		50.0	50.0	mg/L	10	13-Apr-2023 18:38
Alkalinity, Total (As CaCO3)	1,810		50.0	50.0	mg/L	10	13-Apr-2023 18:38

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

Client: PDC Energy
Project: Schneider HD11-059HNX
Sample ID: 11-059HNX B
Collection Date: 30-Mar-2023 12:40

ANALYTICAL REPORT

WorkOrder:HS23040018
Lab ID:HS23040018-02
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 / 13-Apr-2023
							Analyst: MSC
Calcium	119		0.0900	2.50	mg/L	5	17-Apr-2023 15:10
Magnesium	U		0.0390	2.50	mg/L	5	17-Apr-2023 15:10
Potassium	1,220		1.65	25.0	mg/L	50	17-Apr-2023 15:48
Sodium	2,070		1.05	10.0	mg/L	50	17-Apr-2023 15:48

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

Weight / Prep Log

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

Batch ID: 191745	Start Date: 03 Apr 2023 09:00	End Date: 03 Apr 2023 17:30
Method: SW3511		Prep Code: 3511_DRO

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23040018-01		33.07 (mL)	2 (mL)	0.06048	40 mL Amber

Batch ID: 191748	Start Date: 03 Apr 2023 17:00	End Date: 03 Apr 2023 17:30
Method: SAMPLE FILTRATION - 0.45 MICRON FILTER		Prep Code: FILTRATION

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23040018-02		100 (mL)	100 (mL)	1	120 mL Plastic Neat

Batch ID: 192348	Start Date: 13 Apr 2023 13:00	End Date: 13 Apr 2023 17:00
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	
HS23040018-02		10 (mL)	10 (mL)	1	120 mL Plastic Neat

Batch ID: 192358	Start Date: 14 Apr 2023 07:30	End Date: 14 Apr 2023 11:30
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	
HS23040018-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 191745 (0)		Test Name : TPH DRO/ORO BY SW8015C			Matrix: Water	
HS23040018-01	11-059HNX A	30 Mar 2023 12:40		03 Apr 2023 09:00	04 Apr 2023 19:07	10
Batch ID: 192348 (0)		Test Name : DISSOLVED METALS BY E200.8, REV 5.4, 1994			Matrix: Water	
HS23040018-02	11-059HNX B	30 Mar 2023 12:40		13 Apr 2023 13:00	17 Apr 2023 15:48	50
HS23040018-02	11-059HNX B	30 Mar 2023 12:40		13 Apr 2023 13:00	17 Apr 2023 15:10	5
Batch ID: 192358 (0)		Test Name : TOTAL METALS BY E200.8, REV 5.4, 1994			Matrix: Water	
HS23040018-01	11-059HNX A	30 Mar 2023 12:40		14 Apr 2023 07:00	17 Apr 2023 16:09	50
HS23040018-01	11-059HNX A	30 Mar 2023 12:40		14 Apr 2023 07:00	17 Apr 2023 13:30	5
Batch ID: R431679 (0)		Test Name : GASOLINE RANGE ORGANICS BY SW8015C			Matrix: Water	
HS23040018-01	11-059HNX A	30 Mar 2023 12:40			03 Apr 2023 17:46	500
Batch ID: R431699 (0)		Test Name : DISSOLVED GASES BY RSK-175			Matrix: Water	
HS23040018-01	11-059HNX A	30 Mar 2023 12:40			03 Apr 2023 17:51	5
HS23040018-01	11-059HNX A	30 Mar 2023 12:40			03 Apr 2023 17:35	1
Batch ID: R431922 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS23040018-01	11-059HNX A	30 Mar 2023 12:40			05 Apr 2023 02:30	1
Batch ID: R432274 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS23040018-01	11-059HNX A	30 Mar 2023 12:40			10 Apr 2023 22:24	200
HS23040018-01	11-059HNX A	30 Mar 2023 12:40			10 Apr 2023 22:19	20
Batch ID: R432525 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS23040018-01	11-059HNX A	30 Mar 2023 12:40			13 Apr 2023 07:06	500
Batch ID: R432694 (0)		Test Name : ALKALINITY BY SM 2320B-2011			Matrix: Water	
HS23040018-01	11-059HNX A	30 Mar 2023 12:40			13 Apr 2023 18:38	10

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: 191745 (0)		Instrument: FID-16		Method: TPH DRO/ORO BY SW8015C						
MBLK	Sample ID: MBLK-191745	Units: mg/L		Analysis Date: 04-Apr-2023 16:10						
Client ID:	Run ID: FID-16_431865		SeqNo: 7217886		PrepDate: 03-Apr-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	0.04452	0.0050	0.06	0	74.2	60 - 135				
LCS	Sample ID: LCS-191745	Units: mg/L		Analysis Date: 04-Apr-2023 16:40						
Client ID:	Run ID: FID-16_431865		SeqNo: 7217887		PrepDate: 03-Apr-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	0.6177	0.050	0.6	0	103	70 - 130				
Surr: 2-Fluorobiphenyl	0.05462	0.0050	0.06	0	91.0	60 - 135				
LCSD	Sample ID: LCSD-191745	Units: mg/L		Analysis Date: 04-Apr-2023 17:09						
Client ID:	Run ID: FID-16_431865		SeqNo: 7217888		PrepDate: 03-Apr-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	0.5653	0.050	0.6	0	94.2	70 - 130	0.6177	8.86	20	
Surr: 2-Fluorobiphenyl	0.05402	0.0050	0.06	0	90.0	60 - 135	0.05462	1.11	20	
The following samples were analyzed in this batch: HS23040018-01										

Client: PDC Energy
 Project: Schneider HD11-059HNX
 WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: R431699 (0)		Instrument: FID-4		Method: DISSOLVED GASES BY RSK-175					
MBLK	Sample ID: MBLK-230403	Units: ug/L		Analysis Date: 03-Apr-2023 12:25					
Client ID:	Run ID: FID-4_431699	SeqNo: 7212993		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-230403	Units: ug/L		Analysis Date: 03-Apr-2023 12:43					
Client ID:	Run ID: FID-4_431699	SeqNo: 7212994		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	20.79	1.00	18.04	0	115	75 - 125			
Methane	8.459	0.500	9.647	0	87.7	75 - 125			
Propane	31.87	1.00	26.46	0	120	75 - 125			

LCSD	Sample ID: LCSD-230403	Units: ug/L		Analysis Date: 03-Apr-2023 12:59					
Client ID:	Run ID: FID-4_431699	SeqNo: 7212995		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	20.92	1.00	18.04	0	116	75 - 125	20.79	0.62	30
Methane	8.393	0.500	9.647	0	87.0	75 - 125	8.459	0.779	30
Propane	31.69	1.00	26.46	0	120	75 - 125	31.87	0.565	30

The following samples were analyzed in this batch: HS23040018-01

Client: PDC Energy
 Project: Schneider HD11-059HNX
 WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: R431679 (0)		Instrument: FID-20		Method: GASOLINE RANGE ORGANICS BY SW8015C						
MBLK	Sample ID: MBLK-230403	Units: mg/L		Analysis Date: 03-Apr-2023 12:16						
Client ID:	Run ID: FID-20_431679	SeqNo: 7212604		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	0.1109	0.00500	0.1	0	111	70 - 121				
LCS	Sample ID: LCS-230403	Units: mg/L		Analysis Date: 03-Apr-2023 11:35						
Client ID:	Run ID: FID-20_431679	SeqNo: 7212602		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.015	0.0500	1	0	102	76 - 124				
Surr: 4-Bromofluorobenzene	0.08909	0.00500	0.1	0	89.1	52 - 138				
LCSD	Sample ID: LCSD-230403	Units: mg/L		Analysis Date: 03-Apr-2023 11:49						
Client ID:	Run ID: FID-20_431679	SeqNo: 7212603		PrepDate:		DF: 1				
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.041	0.0500	1	0	104	76 - 124	1.015	2.56	20	
Surr: 4-Bromofluorobenzene	0.08909	0.00500	0.1	0	89.1	52 - 138	0.08909	0	20	
The following samples were analyzed in this batch: HS23040018-01										

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: 192348 (0)		Instrument: ICPMS05		Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)					
MBLK	Sample ID: MBLKF2-192348	Units: ug/L		Analysis Date: 17-Apr-2023 15:36					
Client ID:	Run ID: ICPMS05_432799	SeqNo: 7242472		PrepDate: 13-Apr-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Calcium	U	500							
Magnesium	19.74	500							J
Potassium	U	500							
Sodium	46.53	200							J

MBLK	Sample ID: MBLKF1-192348	Units: ug/L		Analysis Date: 17-Apr-2023 15:34					
Client ID:	Run ID: ICPMS05_432799	SeqNo: 7242471		PrepDate: 13-Apr-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Calcium	U	500							
Magnesium	17.54	500							J
Potassium	U	500							
Sodium	54.24	200							J

MBLK	Sample ID: MBLK-192348	Units: ug/L		Analysis Date: 17-Apr-2023 15:32					
Client ID:	Run ID: ICPMS05_432799	SeqNo: 7242470		PrepDate: 13-Apr-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Calcium	42.23	500							J
Magnesium	20.38	500							J
Potassium	U	500							
Sodium	53.48	200							J

LCS	Sample ID: LCS-192348	Units: ug/L		Analysis Date: 17-Apr-2023 15:38					
Client ID:	Run ID: ICPMS05_432799	SeqNo: 7242473		PrepDate: 13-Apr-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Calcium	4662	500	5000	0	93.2	85 - 115			
Magnesium	5009	500	5000	0	100	85 - 115			
Potassium	4776	500	5000	0	95.5	85 - 115			
Sodium	5180	200	5000	0	104	85 - 115			

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: 192348 (0)		Instrument: ICPMS05		Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)						
MS		Sample ID: HS23040087-01MS		Units: ug/L		Analysis Date: 17-Apr-2023 15:42				
Client ID:		Run ID: ICPMS05_432799		SeqNo: 7242475		PrepDate: 13-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	183500	500	5000	177100	128	85 - 115				SEO
Magnesium	53300	500	5000	48510	95.9	85 - 115				O
Potassium	24020	500	5000	19160	97.3	85 - 115				
Sodium	505700	200	5000	498700	140	85 - 115				SEO

MSD		Sample ID: HS23040087-01MSD		Units: ug/L		Analysis Date: 17-Apr-2023 15:44				
Client ID:		Run ID: ICPMS05_432799		SeqNo: 7242476		PrepDate: 13-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	185300	500	5000	177100	165	85 - 115	183500	1.01	20	SEO
Magnesium	53370	500	5000	48510	97.3	85 - 115	53300	0.131	20	O
Potassium	23990	500	5000	19160	96.6	85 - 115	24020	0.158	20	
Sodium	502100	200	5000	498700	67.9	85 - 115	505700	0.717	20	SEO

The following samples were analyzed in this batch: HS23040018-02

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: 192358 (0)		Instrument: ICPMS05		Method: TOTAL METALS BY E200.8, REV 5.4, 1994					
MBLK	Sample ID: MBLK-192358	Units: ug/L		Analysis Date: 17-Apr-2023 12:26					
Client ID:	Run ID: ICPMS05_432799	SeqNo: 7241769		PrepDate: 14-Apr-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	11.64	500							J
Potassium	U	500							
Sodium	U	200							

LCS	Sample ID: LCS-192358	Units: ug/L		Analysis Date: 17-Apr-2023 12:28					
Client ID:	Run ID: ICPMS05_432799	SeqNo: 7241770		PrepDate: 14-Apr-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	5060	500	5000	0	101	85 - 115			
Potassium	4861	500	5000	0	97.2	85 - 115			
Sodium	5118	200	5000	0	102	85 - 115			

LCSD	Sample ID: LCSD-192358	Units: ug/L		Analysis Date: 17-Apr-2023 12:30					
Client ID:	Run ID: ICPMS05_432799	SeqNo: 7241771		PrepDate: 14-Apr-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	4643	500	5000	0	92.9	85 - 115	4558	1.85	20
Magnesium	5169	500	5000	0	103	85 - 115	5060	2.13	20
Potassium	4908	500	5000	0	98.2	85 - 115	4861	0.95	20
Sodium	5291	200	5000	0	106	85 - 115	5118	3.33	20

MS	Sample ID: HS23040399-04MS	Units: ug/L		Analysis Date: 17-Apr-2023 12:56					
Client ID:	Run ID: ICPMS05_432799	SeqNo: 7241780		PrepDate: 14-Apr-2023		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	4662	500	5000	3.186	93.2	70 - 130			
Magnesium	5050	500	5000	10.43	101	70 - 130			
Potassium	4899	500	5000	6.099	97.9	70 - 130			
Sodium	5103	200	5000	51.31	101	70 - 130			

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: 192358 (0)		Instrument: ICPMS05		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MS		Sample ID: HS23040399-03MS		Units: ug/L		Analysis Date: 17-Apr-2023 12:36				
Client ID:		Run ID: ICPMS05_432799		SeqNo: 7241774		PrepDate: 14-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	150300	500	5000	145800	89.9	70 - 130				O
Magnesium	17160	500	5000	12300	97.1	70 - 130				
Potassium	10250	500	5000	5417	96.6	70 - 130				
Sodium	82340	200	5000	77380	99.2	70 - 130				O
MSD		Sample ID: HS23040399-04MSD		Units: ug/L		Analysis Date: 17-Apr-2023 12:57				
Client ID:		Run ID: ICPMS05_432799		SeqNo: 7241781		PrepDate: 14-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	4535	500	5000	3.186	90.6	70 - 130	4662	2.75	20	
Magnesium	4887	500	5000	10.43	97.5	70 - 130	5050	3.28	20	
Potassium	4803	500	5000	6.099	95.9	70 - 130	4899	1.98	20	
Sodium	5017	200	5000	51.31	99.3	70 - 130	5103	1.71	20	
MSD		Sample ID: HS23040399-03MSD		Units: ug/L		Analysis Date: 17-Apr-2023 12:38				
Client ID:		Run ID: ICPMS05_432799		SeqNo: 7241775		PrepDate: 14-Apr-2023		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	143000	500	5000	145800	-56.7	70 - 130	150300	5	20	SO
Magnesium	16120	500	5000	12300	76.3	70 - 130	17160	6.25	20	
Potassium	9553	500	5000	5417	82.7	70 - 130	10250	7.03	20	
Sodium	78130	200	5000	77380	15.0	70 - 130	82340	5.25	20	SO
The following samples were analyzed in this batch: HS23040018-01										

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: R432525 (0)		Instrument: VOA7		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-230412	Units: ug/L		Analysis Date: 12-Apr-2023 23:15					
Client ID:	Run ID: VOA7_432525	SeqNo: 7233744		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	51.58	1.0	50	0	103	70 - 123			
Surr: 4-Bromofluorobenzene	49.47	1.0	50	0	98.9	77 - 113			
Surr: Dibromofluoromethane	48.86	1.0	50	0	97.7	73 - 126			
Surr: Toluene-d8	50.81	1.0	50	0	102	81 - 120			

LCS	Sample ID: VLCSW-230412	Units: ug/L		Analysis Date: 12-Apr-2023 22:33					
Client ID:	Run ID: VOA7_432525	SeqNo: 7233743		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.14	1.0	20	0	95.7	74 - 120			
Ethylbenzene	18.53	1.0	20	0	92.6	77 - 117			
m,p-Xylene	37.31	2.0	40	0	93.3	77 - 122			
o-Xylene	18.7	1.0	20	0	93.5	75 - 119			
Toluene	18.9	1.0	20	0	94.5	77 - 118			
Xylenes, Total	56.01	1.0	60	0	93.3	75 - 122			
Surr: 1,2-Dichloroethane-d4	53.28	1.0	50	0	107	70 - 123			
Surr: 4-Bromofluorobenzene	50.93	1.0	50	0	102	77 - 113			
Surr: Dibromofluoromethane	48.89	1.0	50	0	97.8	73 - 126			
Surr: Toluene-d8	50.4	1.0	50	0	101	81 - 120			

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: R432525 (0)		Instrument: VOA7		Method: LOW LEVEL VOLATILES BY SW8260C					
MS		Sample ID: HS23040412-07MS		Units: ug/L		Analysis Date: 13-Apr-2023 00:20			
Client ID:		Run ID: VOA7_432525		SeqNo: 7233747		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	19.06	1.0	20	0	95.3	70 - 127			
Ethylbenzene	18.78	1.0	20	0	93.9	70 - 124			
m,p-Xylene	37.49	2.0	40	0	93.7	70 - 130			
o-Xylene	18.98	1.0	20	0	94.9	70 - 124			
Toluene	19.11	1.0	20	0	95.5	70 - 123			
Xylenes, Total	56.46	1.0	60	0	94.1	70 - 130			
Surr: 1,2-Dichloroethane-d4	52.62	1.0	50	0	105	70 - 126			
Surr: 4-Bromofluorobenzene	50.52	1.0	50	0	101	77 - 113			
Surr: Dibromofluoromethane	50.22	1.0	50	0	100	77 - 123			
Surr: Toluene-d8	50.94	1.0	50	0	102	82 - 127			

MSD		Sample ID: HS23040412-07MSD		Units: ug/L		Analysis Date: 13-Apr-2023 00:41			
Client ID:		Run ID: VOA7_432525		SeqNo: 7233748		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	18.02	1.0	20	0	90.1	70 - 127	19.06	5.59	20
Ethylbenzene	17.15	1.0	20	0	85.8	70 - 124	18.78	9.07	20
m,p-Xylene	34.98	2.0	40	0	87.5	70 - 130	37.49	6.91	20
o-Xylene	17.57	1.0	20	0	87.8	70 - 124	18.98	7.69	20
Toluene	17.48	1.0	20	0	87.4	70 - 123	19.11	8.91	20
Xylenes, Total	52.55	1.0	60	0	87.6	70 - 130	56.46	7.17	20
Surr: 1,2-Dichloroethane-d4	52.03	1.0	50	0	104	70 - 126	52.62	1.14	20
Surr: 4-Bromofluorobenzene	51.02	1.0	50	0	102	77 - 113	50.52	0.998	20
Surr: Dibromofluoromethane	49.95	1.0	50	0	99.9	77 - 123	50.22	0.533	20
Surr: Toluene-d8	50.75	1.0	50	0	101	82 - 127	50.94	0.377	20

The following samples were analyzed in this batch: HS23040018-01

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: R431922 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011					
MBLK	Sample ID: WBLK-04052023	Units: mg/L		Analysis Date: 05-Apr-2023 02:30					
Client ID:	Run ID: Balance1_431922	SeqNo: 7219219		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		U	10.0						

LCS	Sample ID: LCS-04052023	Units: mg/L		Analysis Date: 05-Apr-2023 02:30					
Client ID:	Run ID: Balance1_431922	SeqNo: 7219218		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		1088	10.0	1000	0	109	85 - 115		

DUP	Sample ID: HS23040179-04DUP	Units: mg/L		Analysis Date: 05-Apr-2023 02:30					
Client ID:	Run ID: Balance1_431922	SeqNo: 7219216		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		740	10.0			742	0.27	20	

DUP	Sample ID: HS23040092-04DUP	Units: mg/L		Analysis Date: 05-Apr-2023 02:30					
Client ID:	Run ID: Balance1_431922	SeqNo: 7219208		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Total Dissolved Solids (Residue, Filterable)		184	10.0			186	1.08	20	

The following samples were analyzed in this batch:		HS23040018-01
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Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: R432274 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993					
MBLK	Sample ID: MBLK	Units: mg/L		Analysis Date: 10-Apr-2023 17:35					
Client ID:	Run ID: ICS-Integrion_432274		SeqNo: 7227828		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	U	0.500							
Sulfate	U	0.500							

LCS	Sample ID: LCS	Units: mg/L		Analysis Date: 10-Apr-2023 17:47					
Client ID:	Run ID: ICS-Integrion_432274		SeqNo: 7227829		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	19.75	0.500	20	0	98.7	90 - 110			
Sulfate	20.09	0.500	20	0	100	90 - 110			

MS	Sample ID: HS23040023-02MS	Units: mg/L		Analysis Date: 10-Apr-2023 19:25					
Client ID:	Run ID: ICS-Integrion_432274		SeqNo: 7227843		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	30.98	0.500	10	21.41	95.7	80 - 120			
Sulfate	76.24	0.500	10	69.99	62.5	80 - 120			SO

MS	Sample ID: HS23031892-09MS	Units: mg/L		Analysis Date: 10-Apr-2023 17:58					
Client ID:	Run ID: ICS-Integrion_432274		SeqNo: 7227831		PrepDate:		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	2540	25.0	500	2158	76.4	80 - 120			SO
Sulfate	532.8	25.0	500	26.64	101	80 - 120			

MSD	Sample ID: HS23040023-02MSD	Units: mg/L		Analysis Date: 10-Apr-2023 19:31					
Client ID:	Run ID: ICS-Integrion_432274		SeqNo: 7227844		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	RPD %RPD	RPD Limit Qual
Chloride	30.88	0.500	10	21.41	94.7	80 - 120	30.98	0.339	20
Sulfate	76.15	0.500	10	69.99	61.5	80 - 120	76.24	0.126	20 SO

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: R432274 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993						
MSD		Sample ID: HS23031892-09MSD		Units: mg/L		Analysis Date: 10-Apr-2023 18:04				
Client ID:		Run ID: ICS-Integrion_432274		SeqNo: 7227832		PrepDate:		DF: 50		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	2531	25.0	500	2158	74.6	80 - 120	2540	0.361	20	SO
Sulfate	541.9	25.0	500	26.64	103	80 - 120	532.8	1.69	20	

The following samples were analyzed in this batch: HS23040018-01

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

QC BATCH REPORT

Batch ID: R432694 (0)		Instrument: ManTech01		Method: ALKALINITY BY SM 2320B-2011					
MBLK	Sample ID: MBLK-R432694	Units: mg/L		Analysis Date: 13-Apr-2023 18:38					
Client ID:	Run ID: ManTech01_432694	SeqNo: 7237944		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-R432694	Units: mg/L		Analysis Date: 13-Apr-2023 18:38					
Client ID:	Run ID: ManTech01_432694	SeqNo: 7237943		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)	976.2	5.00	1000	0	97.6	85 - 115			
Alkalinity, Total (As CaCO3)	977.9	5.00	1000	0	97.8	85 - 115			

LCSD	Sample ID: LCSD-R432694	Units: mg/L		Analysis Date: 13-Apr-2023 18:38					
Client ID:	Run ID: ManTech01_432694	SeqNo: 7237942		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)	980.9	5.00	1000	0	98.1	85 - 115	976.2	0.479	20
Alkalinity, Total (As CaCO3)	981.5	5.00	1000	0	98.2	85 - 115	977.9	0.365	20

DUP	Sample ID: HS23031878-01DUP	Units: mg/L		Analysis Date: 13-Apr-2023 18:38					
Client ID:	Run ID: ManTech01_432694	SeqNo: 7237945		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)	926.9	5.00					956.2	3.12	20
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20
Alkalinity, Total (As CaCO3)	926.9	5.00					956.2	3.12	20

The following samples were analyzed in this batch: HS23040018-01

Client: PDC Energy
Project: Schneider HD11-059HNX
WorkOrder: HS23040018

**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 Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Unit Reported	Description
Date	
mg/L	Milligrams per Liter

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
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

Sample Receipt Checklist

Work Order ID: HS23040018

Date/Time Received: 01-Apr-2023 10:15

Client Name: PDC Energy 80620

Received by: Paresh M. Giga

Completed By: /S/ Paresh M. Giga

01-Apr-2023 10:57

Reviewed by: /S/ Tyler Monroe

03-Apr-2023 10:39

eSignature

Date/Time

eSignature

Date/Time

Matrices: WaterCarrier name: FedEx Priority Overnight

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 ☐

COC IDs:none

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):

5.5C/5.0C U/C

IR31

Cooler(s)/Kit(s):

White

Date/Time sample(s) sent to storage:

4/1/23 11:25

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:



Chain of Custody Form

Page ____ of ____

HS23040018

PDC Energy
Schneider HD11-059HNX

ALS Project Manager:

Customer Information		Project Information																			
Purchase Order		Project Name	Schneider HD 11-059HNX	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 Jennifer.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	11-059HNX A	3/30/23	12:40	W	8	3	X														
2	11-059HNX A			W	1	3		X													
3	11-059HNX A			W	1	3			X												
4	11-059HNX A			W	1	3				X											
5	11-059HNX A			W	8	1					X										
6	11-059HNX B			W	8	1						X									
7	11-059HNX A			W	2	1								X							
8																					
9																					
10																					
Sampler(s): Please Print & Sign Max Trehus		Shipment Method:		Required Turnaround Time: <input checked="" type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour								Results Due Date:									
Relinquished by: [Signature]		Date: 3/30/23	Time: 16:05	Received by: [Signature]		Notes: 1231												Facility ID: 454106			
Relinquished by: [Signature]		Date: 3/31/23	Time: 1530	Received by (Laboratory): [Signature]		Cooler Temp. 55		QC Package: (Check Box Below)										TRRP-Checklist			
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):		Level II: Standard QC										TRRP Level IV					
						Level III: Std QC + Raw Data															
						Level IV: SW846 CLP-Like															
Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035																		Other:			

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

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Red APR 01 2023

ORIGIN ID:GXVA (970) 305-1648 AMY KEPHART ALS 965 E 11TH ST LOVELAND, CO 80537 UNITED STATES US	SHIP DATE: 31MAR23 ACTWT: 11.65 LB CAD: 0487862/CAFE3621 DIMS: 11x8x7 IN BILL THIRD PARTY
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TO **SAMPLE RECEIVING**
ALS
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099

REF: PDC

 **FedEx**
Express


TRK# 6182 5243 6920
0201

SATURDAY 12:00P
PRIORITY OVERNIGHT

XO SGRA **77099**
TX-US IAH



Part # 167077-434 MTW EXP 06/22