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October 20, 2022

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

Work Order: **HS22100291**

Laboratory Results for: **Wayne 09N - Facility 453218**

Dear Max Trehus ,

ALS Environmental received 2 sample(s) on Oct 06, 2022 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: Wayne 09N - Facility 453218
Work Order: HS22100291

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS22100291-01	W-09N A	Water		04-Oct-2022 15:15	06-Oct-2022 09:05	<input type="checkbox"/>
HS22100291-02	W-09N B	Water		04-Oct-2022 15:15	06-Oct-2022 09:05	<input type="checkbox"/>

Client: PDC Energy
Project: Wayne 09N - Facility 453218
Work Order: HS22100291

CASE NARRATIVE

GC Semivolatiles by Method RSK-175**Batch ID: R419163**

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

GC Semivolatiles by Method SW8015M**Batch ID: 184464****Sample ID: W-09N A (HS22100291-01)**

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

GC Volatiles by Method SW8015**Batch ID: R418937****Sample ID: W-09N A (HS22100291-01)**

- One or more surrogate recoveries were above the upper control limits. The sample results may be biased high. This was confirmed by reanalysis.

GCMS Volatiles by Method SW8260**Batch ID: R419573****Sample ID: W-09N A (HS22100291-01)**

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

Sample ID: HS22100762-02MS

- MS and MSD are for an unrelated sample

Metals by Method E200.8**Batch ID: 184979**

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

Batch ID: 184907**Sample ID: HS22100755-02MS**

- MS and MSD are for an unrelated sample

Sample ID: HS22100756-02MS

- MS and MSD are for an unrelated sample

Sample ID: W-09N B (HS22100291-02)

- Sample ran at 2x due to sample matrix.

Wet Chemistry by Method E300**Batch ID: R419474****Sample ID: HS22100301-01MS**

- MS and MSD are for an unrelated sample

Client: PDC Energy
Project: Wayne 09N - Facility 453218
Work Order: HS22100291

CASE NARRATIVE

Wet Chemistry by Method E300

WetChemistry by Method SM2320B

Batch ID: R419511

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

WetChemistry by Method M2540C

Batch ID: R419318

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

Client: PDC Energy
 Project: Wayne 09N - Facility 453218
 Sample ID: W-09N A
 Collection Date: 04-Oct-2022 15:15

ANALYTICAL REPORT

WorkOrder: HS22100291
 Lab ID: HS22100291-01
 Matrix: Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C			Method: SW8260			Analyst: AKP	
Benzene	23	J	20	100	ug/L	100	17-Oct-2022 12:13
Ethylbenzene	U		30	100	ug/L	100	17-Oct-2022 12:13
m,p-Xylene	120	J	50	200	ug/L	100	17-Oct-2022 12:13
o-Xylene	38	J	30	100	ug/L	100	17-Oct-2022 12:13
Toluene	90	J	20	100	ug/L	100	17-Oct-2022 12:13
Xylenes, Total	160		30	100	ug/L	100	17-Oct-2022 12:13
Surr: 1,2-Dichloroethane-d4	100			70-126	%REC	100	17-Oct-2022 12:13
Surr: 4-Bromofluorobenzene	102			77-113	%REC	100	17-Oct-2022 12:13
Surr: Dibromofluoromethane	94.3			77-123	%REC	100	17-Oct-2022 12:13
Surr: Toluene-d8	105			82-127	%REC	100	17-Oct-2022 12:13
GASOLINE RANGE ORGANICS BY SW8015C			Method: SW8015			Analyst: FT	
Gasoline Range Organics	140		0.500	2.50	mg/L	50	09-Oct-2022 15:14
Surr: 4-Bromofluorobenzene	731	S		70-123	%REC	50	09-Oct-2022 15:14
DISSOLVED GASES BY RSK-175			Method: RSK-175			Analyst: PPM	
Ethane	165		14.4	100	ug/L	100	11-Oct-2022 12:32
Methane	517		10.7	50.0	ug/L	100	11-Oct-2022 12:32
Propane	198		100	100	ug/L	100	11-Oct-2022 12:32
TPH DRO/ORO BY SW8015C			Method: SW8015M			Prep: SW3511 / 06-Oct-2022	Analyst: PPM
DRO (>C10 - C28)	1,800		10	26	mg/L	500	07-Oct-2022 14:48
Surr: 2-Fluorobiphenyl	0	JS		60-135	%REC	500	07-Oct-2022 14:48
TOTAL METALS BY E200.8, REV 5.4, 1994			Method: E200.8			Prep: E200.8 / 18-Oct-2022	Analyst: JHD
Calcium	269		1.80	50.0	mg/L	10	19-Oct-2022 20:36
Magnesium	0.298	J	0.0780	5.00	mg/L	1	20-Oct-2022 15:33
Potassium	1,180		3.30	50.0	mg/L	10	19-Oct-2022 20:36
Sodium	1,110		2.10	20.0	mg/L	10	19-Oct-2022 20:36
ANIONS BY E300.0, REV 2.1, 1993			Method: E300			Analyst: TH	
Chloride	1,050		10.0	25.0	mg/L	50	14-Oct-2022 15:02
Sulfate	162		1.00	2.50	mg/L	5	14-Oct-2022 14:56
TOTAL DISSOLVED SOLIDS BY SM2540C -2011			Method: M2540C			Analyst: CWG	
Total Dissolved Solids (Residue, Filterable)	12,700		5.00	10.0	mg/L	1	11-Oct-2022 12:29
ALKALINITY BY SM 2320B-2011			Method: SM2320B			Analyst: TH	
Alkalinity, Bicarbonate (As CaCO3)	U		100	100	mg/L	20	16-Oct-2022 11:11
Alkalinity, Carbonate (As CaCO3)	2,130		100	100	mg/L	20	16-Oct-2022 11:11
Alkalinity, Total (As CaCO3)	2,510		100	100	mg/L	20	16-Oct-2022 11:11

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

Client: PDC Energy
Project: Wayne 09N - Facility 453218
Sample ID: W-09N B
Collection Date: 04-Oct-2022 15:15

ANALYTICAL REPORT

WorkOrder:HS22100291
Lab ID:HS22100291-02
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)			Analyst: JHD
				Prep:E200.8 / 17-Oct-2022			
Calcium	248		1.80	50.0	mg/L	100	18-Oct-2022 23:27
Magnesium	0.0458	J	0.0156	1.00	mg/L	2	19-Oct-2022 14:30
Potassium	1,090		3.30	50.0	mg/L	100	18-Oct-2022 23:27
Sodium	844		2.10	20.0	mg/L	100	18-Oct-2022 23:27

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

Weight / Prep Log

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

Batch ID: 184464 **Start Date:** 06 Oct 2022 09:10 **End Date:** 07 Oct 2022 13:00
Method: SW3511 **Prep Code:** 3511_DRO

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22100291-01		31.92 (mL)	2 (mL)	0.06266	40 mL Amber

Batch ID: 184569 **Start Date:** 07 Oct 2022 19:00 **End Date:** 07 Oct 2022 19:30
Method: SAMPLE FILTRATION - 0.45 MICRON FILTER **Prep Code:** FILTRATION

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22100291-02		100 (mL)	100 (mL)	1	120 ml Plastic, Neat

Batch ID: 184907 **Start Date:** 17 Oct 2022 08:00 **End Date:** 17 Oct 2022 12:00
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	
HS22100291-02		10 (mL)	10 (mL)	1	120 ml Plastic, Neat

Batch ID: 184979 **Start Date:** 18 Oct 2022 09:00 **End Date:** 18 Oct 2022 13:00
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	
HS22100291-01		1 (mL)	10 (mL)	10	250 mL plastic, HNO3 to pH <2

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 184464 (0)		Test Name : TPH DRO/ORO BY SW8015C			Matrix: Water	
HS22100291-01	W-09N A	04 Oct 2022 15:15		06 Oct 2022 09:10	07 Oct 2022 14:48	500
Batch ID: 184907 (0)		Test Name : DISSOLVED METALS BY E200.8, REV 5.4, 1994			Matrix: Water	
HS22100291-02	W-09N B	04 Oct 2022 15:15		17 Oct 2022 08:00	19 Oct 2022 14:30	2
HS22100291-02	W-09N B	04 Oct 2022 15:15		17 Oct 2022 08:00	18 Oct 2022 23:27	100
Batch ID: 184979 (0)		Test Name : TOTAL METALS BY E200.8, REV 5.4, 1994			Matrix: Water	
HS22100291-01	W-09N A	04 Oct 2022 15:15		18 Oct 2022 09:00	20 Oct 2022 15:33	1
HS22100291-01	W-09N A	04 Oct 2022 15:15		18 Oct 2022 09:00	19 Oct 2022 20:36	10
Batch ID: R418937 (0)		Test Name : GASOLINE RANGE ORGANICS BY SW8015C			Matrix: Water	
HS22100291-01	W-09N A	04 Oct 2022 15:15			09 Oct 2022 15:14	50
Batch ID: R419163 (0)		Test Name : DISSOLVED GASES BY RSK-175			Matrix: Water	
HS22100291-01	W-09N A	04 Oct 2022 15:15			11 Oct 2022 12:32	100
Batch ID: R419318 (0)		Test Name : TOTAL DISSOLVED SOLIDS BY SM2540C-2011			Matrix: Water	
HS22100291-01	W-09N A	04 Oct 2022 15:15			11 Oct 2022 12:29	1
Batch ID: R419474 (0)		Test Name : ANIONS BY E300.0, REV 2.1, 1993			Matrix: Water	
HS22100291-01	W-09N A	04 Oct 2022 15:15			14 Oct 2022 15:02	50
HS22100291-01	W-09N A	04 Oct 2022 15:15			14 Oct 2022 14:56	5
Batch ID: R419511 (0)		Test Name : ALKALINITY BY SM 2320B-2011			Matrix: Water	
HS22100291-01	W-09N A	04 Oct 2022 15:15			16 Oct 2022 11:11	20
Batch ID: R419573 (0)		Test Name : LOW LEVEL VOLATILES BY SW8260C			Matrix: Water	
HS22100291-01	W-09N A	04 Oct 2022 15:15			17 Oct 2022 12:13	100

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: 184464 (0)		Instrument: FID-16		Method: TPH DRO/ORO BY SW8015C					
MBLK	Sample ID: MBLK-184464	Units: mg/L		Analysis Date: 06-Oct-2022 12:47					
Client ID:	Run ID: FID-16_418959	SeqNo: 6909448		PrepDate: 06-Oct-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
DRO (>C10 - C28)	U	0.050							
<i>Surr: 2-Fluorobiphenyl</i>	0.05797	0.0050	0.06	0	96.6	60 - 135			
LCS	Sample ID: LCS-184464	Units: mg/L		Analysis Date: 06-Oct-2022 13:16					
Client ID:	Run ID: FID-16_418959	SeqNo: 6909449		PrepDate: 06-Oct-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
DRO (>C10 - C28)	0.6419	0.050	0.6	0	107	70 - 130			
<i>Surr: 2-Fluorobiphenyl</i>	0.06492	0.0050	0.06	0	108	60 - 135			
LCSD	Sample ID: LCSD-184464	Units: mg/L		Analysis Date: 06-Oct-2022 13:46					
Client ID:	Run ID: FID-16_418959	SeqNo: 6909499		PrepDate: 06-Oct-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
DRO (>C10 - C28)	0.619	0.050	0.6	0	103	70 - 130	0.6419	3.62	20
<i>Surr: 2-Fluorobiphenyl</i>	0.06585	0.0050	0.06	0	110	60 - 135	0.06492	1.41	20
The following samples were analyzed in this batch: HS22100291-01									

Client: PDC Energy
 Project: Wayne 09N - Facility 453218
 WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: R419163 (0)		Instrument: FID-4		Method: DISSOLVED GASES BY RSK-175					
MBLK	Sample ID: MBLK-221011	Units: ug/L		Analysis Date: 11-Oct-2022 09:00					
Client ID:	Run ID: FID-4_419163	SeqNo: 6920439		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-221011	Units: ug/L		Analysis Date: 11-Oct-2022 09:14					
Client ID:	Run ID: FID-4_419163	SeqNo: 6920440		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	18.4	1.00	18.04	0	102	75 - 125			
Methane	7.633	0.500	9.647	0	79.1	75 - 125			
Propane	28.26	1.00	26.46	0	107	75 - 125			

LCSD	Sample ID: LCSD-221011	Units: ug/L		Analysis Date: 11-Oct-2022 09:29					
Client ID:	Run ID: FID-4_419163	SeqNo: 6920441		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Ethane	18.68	1.00	18.04	0	104	75 - 125	18.4	1.5	30
Methane	7.944	0.500	9.647	0	82.3	75 - 125	7.633	3.99	30
Propane	27.88	1.00	26.46	0	105	75 - 125	28.26	1.35	30

The following samples were analyzed in this batch: HS22100291-01

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: R418937 (0)		Instrument: FID-20		Method: GASOLINE RANGE ORGANICS BY SW8015C						
MBLK	Sample ID: MBLK-221009	Units: mg/L		Analysis Date: 09-Oct-2022 10:48						
Client ID:	Run ID: FID-20_418937		SeqNo: 6909002		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	0.1086	0.00500	0.1	0	109	70 - 121				
LCS	Sample ID: LCS-221009	Units: mg/L		Analysis Date: 09-Oct-2022 10:01						
Client ID:	Run ID: FID-20_418937		SeqNo: 6909000		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.149	0.0500	1	0	115	76 - 124				
Surr: 4-Bromofluorobenzene	0.08397	0.00500	0.1	0	84.0	52 - 138				
LCSD	Sample ID: LCSD-221009	Units: mg/L		Analysis Date: 09-Oct-2022 10:17						
Client ID:	Run ID: FID-20_418937		SeqNo: 6909001		PrepDate:		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.099	0.0500	1	0	110	76 - 124	1.149	4.45	20	
Surr: 4-Bromofluorobenzene	0.0769	0.00500	0.1	0	76.9	52 - 138	0.08397	8.78	20	

The following samples were analyzed in this batch: HS22100291-01

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: 184907 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)					
MBLK	Sample ID: MBLK-184907	Units: ug/L		Analysis Date: 18-Oct-2022 23:13					
Client ID:	Run ID: ICPMS07_419665	SeqNo: 6927578		PrepDate: 17-Oct-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	U	500							
Magnesium	15.6	500							J
Potassium	U	500							
Sodium	U	200							

MBLK	Sample ID: MBLK-184907	Units: ug/L		Analysis Date: 18-Oct-2022 23:12					
Client ID:	Run ID: ICPMS07_419665	SeqNo: 6927577		PrepDate: 17-Oct-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	U	500							
Magnesium	U	500							
Potassium	U	500							
Sodium	U	200							

LCS	Sample ID: LCS-184907	Units: ug/L		Analysis Date: 18-Oct-2022 23:15					
Client ID:	Run ID: ICPMS07_419665	SeqNo: 6927579		PrepDate: 17-Oct-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	5092	500	5000	0	102	85 - 115			
Magnesium	5355	500	5000	0	107	85 - 115			
Potassium	5415	500	5000	0	108	85 - 115			
Sodium	5105	200	5000	0	102	85 - 115			

MS	Sample ID: HS22100756-02MS	Units: ug/L		Analysis Date: 18-Oct-2022 23:42					
Client ID:	Run ID: ICPMS07_419665	SeqNo: 6928206		PrepDate: 17-Oct-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	565900	500	5000	585700	-396	85 - 115			SEO
Magnesium	148500	500	5000	149500	-20.8	85 - 115			SO
Potassium	6840	500	5000	1545	106	85 - 115			
Sodium	593700	200	5000	611500	-356	85 - 115			SEO

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: 184907 (0)		Instrument: ICPMS07		Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)					
MS		Sample ID: HS22100755-02MS		Units: ug/L		Analysis Date: 18-Oct-2022 23:36			
Client ID:		Run ID: ICPMS07_419665		SeqNo: 6928203		PrepDate: 17-Oct-2022		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	1621000	5000	5000	1669000	-958	85 - 115			SO
Magnesium	603700	5000	5000	626900	-464	85 - 115			SO
Potassium	50810	5000	5000	45770	101	85 - 115			O
Sodium	13110000	2000	5000	13660000	-11000	85 - 115			SEO

MSD		Sample ID: HS22100756-02MSD		Units: ug/L		Analysis Date: 18-Oct-2022 23:44			
Client ID:		Run ID: ICPMS07_419665		SeqNo: 6928207		PrepDate: 17-Oct-2022		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	581200	500	5000	585700	-90.8	85 - 115	565900	2.66	20 SEO
Magnesium	151600	500	5000	149500	41.1	85 - 115	148500	2.06	20 SO
Potassium	6863	500	5000	1545	106	85 - 115	6840	0.338	20
Sodium	604600	200	5000	611500	-137	85 - 115	593700	1.83	20 SEO

MSD		Sample ID: HS22100755-02MSD		Units: ug/L		Analysis Date: 19-Oct-2022 14:32			
Client ID:		Run ID: ICPMS07_419765		SeqNo: 6928982		PrepDate: 17-Oct-2022		DF: 10	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	1449000	5000	5000	1669000	-4380	85 - 115	1621000	11.2	20 SO
Magnesium	544900	5000	5000	626900	-1640	85 - 115	603700	10.3	20 SO
Potassium	46790	5000	5000	45770	20.3	85 - 115	50810	8.25	20 SO
Sodium	11700000	2000	5000	13660000	-39300	85 - 115	13110000	11.4	20 SEO

The following samples were analyzed in this batch: HS22100291-02

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: 184979 (0)		Instrument: ICPMS07		Method: TOTAL METALS BY E200.8, REV 5.4, 1994					
MBLK	Sample ID: MBLK-184979	Units: ug/L		Analysis Date: 19-Oct-2022 20:06					
Client ID:	Run ID: ICPMS07_419765	SeqNo: 6929771		PrepDate: 18-Oct-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	U	500							
Magnesium	U	500							
Potassium	U	500							
Sodium	U	200							

LCS	Sample ID: LCS-184979	Units: ug/L		Analysis Date: 19-Oct-2022 20:08					
Client ID:	Run ID: ICPMS07_419765	SeqNo: 6929772		PrepDate: 18-Oct-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	4885	500	5000	0	97.7	85 - 115			
Magnesium	5323	500	5000	0	106	85 - 115			
Potassium	5192	500	5000	0	104	85 - 115			
Sodium	5160	200	5000	0	103	85 - 115			

MS	Sample ID: HS22100640-01MS	Units: ug/L		Analysis Date: 19-Oct-2022 20:17					
Client ID:	Run ID: ICPMS07_419765	SeqNo: 6929777		PrepDate: 18-Oct-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	230600	500	5000	224900	113	70 - 130			EO
Magnesium	30120	500	5000	25190	98.4	70 - 130			O
Potassium	36880	500	5000	31980	97.9	70 - 130			O
Sodium	312200	200	5000	307700	90.0	70 - 130			EO

MS	Sample ID: HS22100527-01MS	Units: ug/L		Analysis Date: 19-Oct-2022 20:12					
Client ID:	Run ID: ICPMS07_419765	SeqNo: 6929774		PrepDate: 18-Oct-2022		DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Calcium	57130	500	5000	51870	105	70 - 130			O
Magnesium	11060	500	5000	6081	99.6	70 - 130			
Potassium	58940	500	5000	53820	103	70 - 130			O
Sodium	97240	200	5000	91650	112	70 - 130			O

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: 184979 (0)		Instrument: ICPMS07		Method: TOTAL METALS BY E200.8, REV 5.4, 1994						
MSD		Sample ID: HS22100640-01MSD		Units: ug/L		Analysis Date: 19-Oct-2022 20:19				
Client ID:		Run ID: ICPMS07_419765		SeqNo: 6929778		PrepDate: 18-Oct-2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	229500	500	5000	224900	92.0	70 - 130	230600	0.461	20	EO
Magnesium	30010	500	5000	25190	96.3	70 - 130	30120	0.35	20	O
Potassium	36460	500	5000	31980	89.6	70 - 130	36880	1.13	20	O
Sodium	311900	200	5000	307700	84.6	70 - 130	312200	0.0873	20	EO
MSD		Sample ID: HS22100527-01MSD		Units: ug/L		Analysis Date: 19-Oct-2022 20:13				
Client ID:		Run ID: ICPMS07_419765		SeqNo: 6929775		PrepDate: 18-Oct-2022		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	56780	500	5000	51870	98.3	70 - 130	57130	0.603	20	O
Magnesium	11030	500	5000	6081	99.0	70 - 130	11060	0.263	20	
Potassium	59230	500	5000	53820	108	70 - 130	58940	0.494	20	O
Sodium	97610	200	5000	91650	119	70 - 130	97240	0.383	20	O
The following samples were analyzed in this batch: HS22100291-01										

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: R419573 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C					
MBLK	Sample ID: VBLKW-221017	Units: ug/L		Analysis Date: 17-Oct-2022 10:15					
Client ID:	Run ID: VOA4_419573		SeqNo: 6924123		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							
Total BTEX	U	1.0							
Surr: 1,2-Dichloroethane-d4	52.65	1.0	50	0	105	70 - 123			
Surr: 4-Bromofluorobenzene	49.52	1.0	50	0	99.0	77 - 113			
Surr: Dibromofluoromethane	48.08	1.0	50	0	96.2	73 - 126			
Surr: Toluene-d8	50.67	1.0	50	0	101	81 - 120			

LCS	Sample ID: VLCSW-221017	Units: ug/L		Analysis Date: 17-Oct-2022 09:32					
Client ID:	Run ID: VOA4_419573		SeqNo: 6924121		PrepDate:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual

Benzene	16.35	1.0	20	0	81.8	74 - 120			
Ethylbenzene	16.59	1.0	20	0	82.9	77 - 117			
m,p-Xylene	33.19	2.0	40	0	83.0	77 - 122			
o-Xylene	16.31	1.0	20	0	81.6	75 - 119			
Toluene	16.62	1.0	20	0	83.1	77 - 118			
Xylenes, Total	49.5	1.0	60	0	82.5	75 - 122			
Surr: 1,2-Dichloroethane-d4	49.13	1.0	50	0	98.3	70 - 123			
Surr: 4-Bromofluorobenzene	51	1.0	50	0	102	77 - 113			
Surr: Dibromofluoromethane	47.62	1.0	50	0	95.2	73 - 126			
Surr: Toluene-d8	51.37	1.0	50	0	103	81 - 120			

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: R419573 (0)		Instrument: VOA4		Method: LOW LEVEL VOLATILES BY SW8260C					
MS		Sample ID: HS22100762-02MS		Units: ug/L		Analysis Date: 17-Oct-2022 13:23			
Client ID:		Run ID: VOA4_419573		SeqNo: 6925371		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	22.24	1.0	20	0	111	70 - 127			
Ethylbenzene	27.26	1.0	20	0	136	70 - 124			S
m,p-Xylene	66	2.0	40	0	165	70 - 130			S
o-Xylene	28.59	1.0	20	0	143	70 - 124			S
Toluene	28.04	1.0	20	0	140	70 - 123			S
Xylenes, Total	94.6	1.0	60	0	158	70 - 130			S
Surr: 1,2-Dichloroethane-d4	52	1.0	50	0	104	70 - 126			
Surr: 4-Bromofluorobenzene	50.1	1.0	50	0	100	77 - 113			
Surr: Dibromofluoromethane	49.6	1.0	50	0	99.2	77 - 123			
Surr: Toluene-d8	50.47	1.0	50	0	101	82 - 127			

MSD		Sample ID: HS22100762-02MSD		Units: ug/L		Analysis Date: 17-Oct-2022 14:06			
Client ID:		Run ID: VOA4_419573		SeqNo: 6925373		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Benzene	23.65	1.0	20	0	118	70 - 127	22.24	6.18	20
Ethylbenzene	26.04	1.0	20	0	130	70 - 124	27.26	4.57	20 S
m,p-Xylene	53.92	2.0	40	0	135	70 - 130	66	20.2	20 SR
o-Xylene	26.04	1.0	20	0	130	70 - 124	28.59	9.34	20 S
Toluene	25.95	1.0	20	0	130	70 - 123	28.04	7.74	20 S
Xylenes, Total	79.96	1.0	60	0	133	70 - 130	94.6	16.8	20 S
Surr: 1,2-Dichloroethane-d4	52.41	1.0	50	0	105	70 - 126	52	0.777	20
Surr: 4-Bromofluorobenzene	52.32	1.0	50	0	105	77 - 113	50.1	4.33	20
Surr: Dibromofluoromethane	50.69	1.0	50	0	101	77 - 123	49.6	2.18	20
Surr: Toluene-d8	51.71	1.0	50	0	103	82 - 127	50.47	2.43	20

The following samples were analyzed in this batch: HS22100291-01

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: R419318 (0)		Instrument: Balance1		Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011						
MBLK	Sample ID: WBLK-101122	Units: mg/L		Analysis Date: 11-Oct-2022 12:29						
Client ID:	Run ID: Balance1_419318	SeqNo: 6918047		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: WLCS-101122	Units: mg/L		Analysis Date: 11-Oct-2022 12:29						
Client ID:	Run ID: Balance1_419318	SeqNo: 6918048		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)		1052	10.0	1000	0	105	85 - 115			
DUP	Sample ID: HS22100314-05DUP	Units: mg/L		Analysis Date: 11-Oct-2022 12:29						
Client ID:	Run ID: Balance1_419318	SeqNo: 6918046		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)		1650	10.0				1650	0	5	
DUP	Sample ID: HS22100190-04DUP	Units: mg/L		Analysis Date: 11-Oct-2022 12:29						
Client ID:	Run ID: Balance1_419318	SeqNo: 6918019		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)		2630	10.0				2650	0.758	5	
The following samples were analyzed in this batch:		HS22100291-01								

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: R419474 (0)											Instrument: ICS-Integrion			Method: ANIONS BY E300.0, REV 2.1, 1993				
MBLK		Sample ID: MBLK				Units: mg/L				Analysis Date: 14-Oct-2022 11:30								
Client ID:				Run ID: ICS-Integrion_419474				SeqNo: 6921545		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							
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Sulfate	U	0.500							
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LCS	Sample ID: LCS	Units: mg/L			Analysis Date: 14-Oct-2022 11:36				
Client ID:	Run ID: ICS-Integrion_419474			SeqNo: 6921546	PrepDate:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	20.88	0.500	20	0	104	90 - 110			
Sulfate	20.94	0.500	20	0	105	90 - 110			

MS	Sample ID: HS22100632-06MS	Units: mg/L			Analysis Date: 14-Oct-2022 11:51				
Client ID:	Run ID: ICS-Integrion_419474			SeqNo: 6921549	PrepDate:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	29.58	0.500	10	19.77	98.1	80 - 120			
Sulfate	35.04	0.500	10	25.27	97.7	80 - 120			

MS	Sample ID: HS22100301-01MS	Units: mg/L			Analysis Date: 14-Oct-2022 15:18				
Client ID:	Run ID: ICS-Integrion_419474			SeqNo: 6921579	PrepDate:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	15.07	0.500	10	4.871	102	80 - 120			
Sulfate	1461	0.500	10	1504	-433	80 - 120			SEO

MSD	Sample ID: HS22100632-06MSD	Units: mg/L			Analysis Date: 14-Oct-2022 11:57				
Client ID:	Run ID: ICS-Integrion_419474			SeqNo: 6921550	PrepDate:	DF: 1			
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	29.58	0.500	10	19.77	98.1	80 - 120	29.58	0	20
Sulfate	35	0.500	10	25.27	97.3	80 - 120	35.04	0.105	20

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: R419474 (0)		Instrument: ICS-Integrion		Method: ANIONS BY E300.0, REV 2.1, 1993					
MSD		Sample ID: HS22100301-01MSD		Units: mg/L		Analysis Date: 14-Oct-2022 15:23			
Client ID:		Run ID: ICS-Integrion_419474		SeqNo: 6921580		PrepDate:		DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit Qual
Chloride	15.06	0.500	10	4.871	102	80 - 120	15.07	0.0133	20
Sulfate	1458	0.500	10	1504	-464	80 - 120	1461	0.213	20 SEO

The following samples were analyzed in this batch: HS22100291-01

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

QC BATCH REPORT

Batch ID: R419511 (0)		Instrument: ManTech01		Method: ALKALINITY BY SM 2320B-2011					
MBLK	Sample ID: WBLKW1-101622	Units: mg/L		Analysis Date: 16-Oct-2022 09:11					
Client ID:	Run ID: ManTech01_419511	SeqNo: 6922753		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: LCS1-101622	Units: mg/L		Analysis Date: 16-Oct-2022 09:20					
Client ID:	Run ID: ManTech01_419511	SeqNo: 6922754		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)	965.8	5.00	1000	0	96.6	85 - 115			
Alkalinity, Total (As CaCO3)	996.6	5.00	1000	0	99.7	85 - 115			

LCSD	Sample ID: LCSD1-101622	Units: mg/L		Analysis Date: 16-Oct-2022 09:29					
Client ID:	Run ID: ManTech01_419511	SeqNo: 6922755		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)	983.9	5.00	1000	0	98.4	85 - 115	965.8	1.86	20
Alkalinity, Total (As CaCO3)	989.6	5.00	1000	0	99.0	85 - 115	996.6	0.706	20

DUP	Sample ID: HS22100314-01DUP	Units: mg/L		Analysis Date: 16-Oct-2022 09:41					
Client ID:	Run ID: ManTech01_419511	SeqNo: 6922757		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)	65.45	5.00					66.03	0.882	20
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20
Alkalinity, Total (As CaCO3)	65.45	5.00					66.03	0.882	20

The following samples were analyzed in this batch: HS22100291-01

Client: PDC Energy
Project: Wayne 09N - Facility 453218
WorkOrder: HS22100291

**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
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	624-2022	31-Dec-2022
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: HS22100291

Date/Time Received: 06-Oct-2022 09:05

Client Name: PDC Energy 80620

Received by: Malcolm Burleson

Completed By: /S/ Malcolm Burleson

06-Oct-2022 15:36

Reviewed by: /S/ Tyler Monroe

07-Oct-2022 09:02

eSignature

Date/Time

eSignature

Date/Time

Matrices: WCarrier 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):

2.1UC/1.9C

IR31

Cooler(s)/Kit(s):

453218

Date/Time sample(s) sent to storage:

10/06/2022

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 ____

HS22100291

PDC Energy
Wayne 10N-453214ental
Office
210
7099
7222

ALS Project Manager:

Customer Information				Project Information				Parameter/Method Request for Analysis											
Purchase Order		Project Name	Wayne 09N	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														
City/State/Zip	Evans, CO 80620	City/State/Zip	Denver, CO 80203	F	Dissolved Ca, Mg, K, Na - need to lab filter														
Phone	720-762-3569	Phone	303-860-5800	G	Total Ca, Mg, K, Na														
Fax		Fax		H															
e-Mail Address	max.trehus@pdce.com jenifer.hakkarinen@pdce.com jessica.johannsen@pdce.com	e-Mail Address		I															
				J															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold		
1	W-09N A	10/4/22	15:15	W	8	3	X												
2	W-09N A			W	1	3		X											
3	W-09N A			W	1	3			X										
4	W-09N A			W	1	3				X									
5	W-09N A			W	8	1					X								
6	W-09N B			W	8	1						X							
7	W-09N A			W	2	1							X						
8														X					
9																			
10																			
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:				Results Due Date:											
Max Trehus				<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															
Relinquished by:		Date:	Time:	Received by:		Notes:		Facility ID: 453218											
[Signature]		10/5/22	13:47	[Signature]		2.12.22													
Relinquished by:		Date:	Time:	Received by (Laboratory):		Cooler Temp.		QC Package: (Check Box Below)											
[Signature]		10/5/22	1530	[Signature]		1.8°C		<input checked="" type="checkbox"/> Level II: Standard QC <input type="checkbox"/> TRRP-Checklist											
Logged by (Laboratory):		Date:	Time:	Checked by (Laboratory):				<input type="checkbox"/> Level III: Std QC + Raw Data <input type="checkbox"/> TRRP Level IV											
								<input type="checkbox"/> 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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TRK# 5066 7517 6015
0201

THU - 06 OCT 10:30A
PRIORITY OVERNIGHT

XA SGRA

77099
TX-US IAH

Part # 167077-434 MTW EXP 06/22

