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January 11, 2023

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

Work Order: **HS22121491**

Laboratory Results for: **Bost Farm 40C-8-L2**

Dear Max Trehus ,

ALS Environmental received 2 sample(s) on Dec 27, 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: Bost Farm 40C-8-L2
Work Order: HS22121491

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS22121491-01	40C-8-L2 A	Water		20-Dec-2022 12:30	27-Dec-2022 09:25	☐
HS22121491-02	40C-8-L2 B	Water		20-Dec-2022 12:30	27-Dec-2022 09:25	☐

Client: PDC Energy **CASE NARRATIVE**
Project: Bost Farm 40C-8-L2
Work Order: HS22121491

GC Semivolatiles by Method RSK-175

Batch ID: R424917

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

GC Semivolatiles by Method SW8015M

Batch ID: 187825

Sample ID: 40C-8-L2 A (HS22121491-01)

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

GC Volatiles by Method SW8015

Batch ID: R425018

Sample ID: 40C-8-L2 A (HS22121491-01)

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

GCMS Volatiles by Method SW8260

Batch ID: R425009

Sample ID: 40C-8-L2 A (HS22121491-01)

• Dilution required due to matrix interference.

Metals by Method E200.8

Batch ID: 188293

Sample ID: 40C-8-L2 B (HS22121491-02)

• Magnesium ran at a 2X dilution due to high concentration of Calcium.

Sample ID: HS22121450-01MS

• MS and MSD are for an unrelated sample

Batch ID: 188221

Sample ID: 40C-8-L2 A (HS22121491-01)

• Sample ran at a 2X dilution due to high concentration of high Calcium and Sodium.

Sample ID: HS22121573-02MS

• MS and MSD are for an unrelated sample

WetChemistry by Method E300

Batch ID: R425372

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

Client: PDC Energy **CASE NARRATIVE**
Project: Bost Farm 40C-8-L2
Work Order: HS22121491

WetChemistry by Method SM2320B

Batch ID: R425144

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

WetChemistry by Method M2540C

Batch ID: R424903

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

Client: PDC Energy
Project: Bost Farm 40C-8-L2
Sample ID: 40C-8-L2 A
Collection Date: 20-Dec-2022 12:30

ANALYTICAL REPORT
WorkOrder:HS22121491
Lab ID:HS22121491-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: FT
Benzene	U		100	500	ug/L	500	30-Dec-2022 02:42
Ethylbenzene	U		150	500	ug/L	500	30-Dec-2022 02:42
m,p-Xylene	U		250	1000	ug/L	500	30-Dec-2022 02:42
o-Xylene	U		150	500	ug/L	500	30-Dec-2022 02:42
Toluene	U		100	500	ug/L	500	30-Dec-2022 02:42
Xylenes, Total	U		150	500	ug/L	500	30-Dec-2022 02:42
Surr: 1,2-Dichloroethane-d4	*122*			*70-126*	*%REC*	*500*	*30-Dec-2022 02:42*
Surr: 4-Bromofluorobenzene	*96.5*			*77-113*	*%REC*	*500*	*30-Dec-2022 02:42*
Surr: Dibromofluoromethane	*116*			*77-123*	*%REC*	*500*	*30-Dec-2022 02:42*
Surr: Toluene-d8	*102*			*82-127*	*%REC*	*500*	*30-Dec-2022 02:42*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**					Analyst: FT
Gasoline Range Organics	**37.4**		**5.00**	**25.0**	**mg/L**	500	29-Dec-2022 15:29
Surr: 4-Bromofluorobenzene	*1410*	*S*		*70-123*	*%REC*	*500*	*29-Dec-2022 15:29*
DISSOLVED GASES BY RSK-175		**Method:RSK-175**					Analyst: SAM
Ethane	**15.9**		**0.144**	**1.00**	**ug/L**	1	28-Dec-2022 10:52
Methane	**16.1**		**0.107**	**0.500**	**ug/L**	1	28-Dec-2022 10:52
Propane	**18.9**		**1.00**	**1.00**	**ug/L**	1	28-Dec-2022 10:52
TPH DRO/ORO BY SW8015C		**Method:SW8015M**			Prep:SW3511 / 27-Dec-2022		Analyst: SAM
DRO (>C10 - C28)	**1,500**		**20**	**51**	**mg/L**	1000	28-Dec-2022 01:25
Surr: 2-Fluorobiphenyl	*0*	*JS*		*60-135*	*%REC*	*1000*	*28-Dec-2022 01:25*
TOTAL METALS BY E200.8, REV 5.4, 1994		**Method:E200.8**			Prep:E200.8 / 09-Jan-2023		Analyst: JC
Calcium	**947**		**0.900**	**25.0**	**mg/L**	50	09-Jan-2023 14:54
Magnesium	**0.207**	J	**0.00780**	**0.500**	**mg/L**	1	09-Jan-2023 14:41
Potassium	**317**		**0.165**	**2.50**	**mg/L**	5	09-Jan-2023 14:18
Sodium	**417**		**0.105**	**1.00**	**mg/L**	5	09-Jan-2023 14:18
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**					Analyst: TH
Chloride	**1,510**		**10.0**	**25.0**	**mg/L**	50	05-Jan-2023 15:08
Sulfate	**195**		**2.00**	**5.00**	**mg/L**	10	05-Jan-2023 15:03
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**					Analyst: MZD
Total Dissolved Solids (Residue, Filterable)	**76,700**		**5.00**	**10.0**	**mg/L**	1	27-Dec-2022 16:14
ALKALINITY BY SM 2320B-2011		**Method:SM2320B**					Analyst: JAC
Alkalinity, Bicarbonate (As CaCO3)	U		5.00	5.00	mg/L	1	01-Jan-2023 12:00
Alkalinity, Carbonate (As CaCO3)	**864**		**5.00**	**5.00**	**mg/L**	1	01-Jan-2023 12:00
Alkalinity, Total (As CaCO3)	**900**		**5.00**	**5.00**	**mg/L**	1	01-Jan-2023 12:00

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

Client: PDC Energy
Project: Bost Farm 40C-8-L2
Sample ID: 40C-8-L2 B
Collection Date: 20-Dec-2022 12:30

ANALYTICAL REPORT
WorkOrder:HS22121491
Lab ID:HS22121491-02
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 / 10-Jan-2023		Analyst: JC
Calcium	**1,010**		**0.180**	**5.00**	**mg/L**	10	10-Jan-2023 22:11
Magnesium	**0.168**	J	**0.0156**	**1.00**	**mg/L**	2	11-Jan-2023 12:09
Potassium	**326**		**0.330**	**5.00**	**mg/L**	10	10-Jan-2023 22:11
Sodium	**426**		**0.210**	**2.00**	**mg/L**	10	10-Jan-2023 22:11

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

Weight / Prep Log

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

Batch ID: 187825 **Start Date:** 27 Dec 2022 16:36 **End Date:** 28 Dec 2022 17:00
Method: SW3511 **Prep Code:** 3511_DRO

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22121491-01		32.36 (mL)	2 (mL)	0.0618	40 mL Amber

Batch ID: 188097 **Start Date:** 04 Jan 2023 15:00 **End Date:** 04 Jan 2023 15:30
Method: SAMPLE FILTRATION - 0.45 MICRON FILTER **Prep Code:** FILTRATION

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS22121491-02		100 (mL)	100 (mL)	1	250 mL plastic, Neat

Batch ID: 188221 **Start Date:** 09 Jan 2023 08:30 **End Date:** 09 Jan 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	
HS22121491-01		10 (mL)	10 (mL)	1	250 mL plastic, HNO3 to pH <2

Batch ID: 188293 **Start Date:** 10 Jan 2023 09:30 **End Date:** 10 Jan 2023 13:30
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	
HS22121491-02		10 (mL)	10 (mL)	1	250 mL plastic, Neat

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 187825 (0)	**Test Name :** TPH DRO/ORO BY SW8015C				**Matrix:** Water	
HS22121491-01	40C-8-L2 A	20 Dec 2022 12:30		27 Dec 2022 16:36	28 Dec 2022 01:25	1000
Batch ID: 188221 (0)	**Test Name :** TOTAL METALS BY E200.8, REV 5.4, 1994				**Matrix:** Water	
HS22121491-01	40C-8-L2 A	20 Dec 2022 12:30		09 Jan 2023 08:30	09 Jan 2023 14:54	50
HS22121491-01	40C-8-L2 A	20 Dec 2022 12:30		09 Jan 2023 08:30	09 Jan 2023 14:41	1
HS22121491-01	40C-8-L2 A	20 Dec 2022 12:30		09 Jan 2023 08:30	09 Jan 2023 14:18	5
Batch ID: 188293 (0)	**Test Name :** DISSOLVED METALS BY E200.8, REV 5.4, 1994				**Matrix:** Water	
HS22121491-02	40C-8-L2 B	20 Dec 2022 12:30		10 Jan 2023 09:30	11 Jan 2023 12:09	2
HS22121491-02	40C-8-L2 B	20 Dec 2022 12:30		10 Jan 2023 09:30	10 Jan 2023 22:11	10
Batch ID: R424903 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C-2011				**Matrix:** Water	
HS22121491-01	40C-8-L2 A	20 Dec 2022 12:30			27 Dec 2022 16:14	1
Batch ID: R424917 (0)	**Test Name :** DISSOLVED GASES BY RSK-175				**Matrix:** Water	
HS22121491-01	40C-8-L2 A	20 Dec 2022 12:30			28 Dec 2022 10:52	1
Batch ID: R425009 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS22121491-01	40C-8-L2 A	20 Dec 2022 12:30			30 Dec 2022 02:42	500
Batch ID: R425018 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Water	
HS22121491-01	40C-8-L2 A	20 Dec 2022 12:30			29 Dec 2022 15:29	500
Batch ID: R425144 (0)	**Test Name :** ALKALINITY BY SM 2320B-2011				**Matrix:** Water	
HS22121491-01	40C-8-L2 A	20 Dec 2022 12:30			01 Jan 2023 12:00	1
Batch ID: R425372 (0)	**Test Name :** ANIONS BY E300.0, REV 2.1, 1993				**Matrix:** Water	
HS22121491-01	40C-8-L2 A	20 Dec 2022 12:30			05 Jan 2023 15:08	50
HS22121491-01	40C-8-L2 A	20 Dec 2022 12:30			05 Jan 2023 15:03	10

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: 187825 (0) **Instrument: FID-16** **Method: TPH DRO/ORO BY SW8015C**

MBLK Sample ID: **MBLK-187825** Units: **mg/L** Analysis Date: **27-Dec-2022 23:57**
Client ID: Run ID: **FID-16_425171** SeqNo: **7059212** PrepDate: **27-Dec-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								
Surr: 2-Fluorobiphenyl	*0.04323*	*0.0050*	*0.06*	*0*	*72.0*	*60 - 135*				

LCS Sample ID: **LCS-187825** Units: **mg/L** Analysis Date: **28-Dec-2022 00:26**
Client ID: Run ID: **FID-16_425171** SeqNo: **7059213** PrepDate: **27-Dec-2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	0.6195	0.050	0.6	0	103	70 - 130				
Surr: 2-Fluorobiphenyl	*0.05921*	*0.0050*	*0.06*	*0*	*98.7*	*60 - 135*				

LCSD Sample ID: **LCSD-187825** Units: **mg/L** Analysis Date: **28-Dec-2022 00:55**
Client ID: Run ID: **FID-16_425171** SeqNo: **7059214** PrepDate: **27-Dec-2022** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
DRO (>C10 - C28)	0.6176	0.050	0.6	0	103	70 - 130	0.6195	0.309	20	
Surr: 2-Fluorobiphenyl	*0.05793*	*0.0050*	*0.06*	*0*	*96.5*	*60 - 135*	*0.05921*	*2.19*	*20*	

The following samples were analyzed in this batch: HS22121491-01

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: R424917 (0) **Instrument: FID-4** **Method: DISSOLVED GASES BY RSK-175**

MBLK Sample ID: **MBLK-221228** Units: **ug/L** Analysis Date: **28-Dec-2022 07:42**
Client ID: Run ID: **FID-4_424917** SeqNo: **7053485** 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-221228** Units: **ug/L** Analysis Date: **28-Dec-2022 08:15**
Client ID: Run ID: **FID-4_424917** SeqNo: **7053486** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	21.15	1.00	18.04	0	117	75 - 125				
Methane	8.951	0.500	9.647	0	92.8	75 - 125				
Propane	31.26	1.00	26.46	0	118	75 - 125				

LCSD Sample ID: **LCSD-221228** Units: **ug/L** Analysis Date: **28-Dec-2022 08:41**
Client ID: Run ID: **FID-4_424917** SeqNo: **7053487** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ethane	21.01	1.00	18.04	0	116	75 - 125	21.15	0.633	30	
Methane	9.045	0.500	9.647	0	93.8	75 - 125	8.951	1.05	30	
Propane	30.7	1.00	26.46	0	116	75 - 125	31.26	1.81	30	

The following samples were analyzed in this batch: HS22121491-01

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: R425018 (0) **Instrument:** FID-20 **Method:** GASOLINE RANGE ORGANICS BY SW8015C

MBLK Sample ID: **MBLK-221229** Units: **mg/L** Analysis Date: **29-Dec-2022 13:28**
Client ID: Run ID: **FID-20_425018** SeqNo: **7055925** 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	*0.1144*	*0.00500*	*0.1*	*0*	*114*	*70 - 121*				

LCS Sample ID: **LCS-221229** Units: **mg/L** Analysis Date: **29-Dec-2022 12:47**
Client ID: Run ID: **FID-20_425018** SeqNo: **7055923** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.018	0.0500	1	0	102	76 - 124				
Surr: 4-Bromofluorobenzene	*0.09717*	*0.00500*	*0.1*	*0*	*97.2*	*52 - 138*				

LCSD Sample ID: **LCSD-221229** Units: **mg/L** Analysis Date: **29-Dec-2022 13:01**
Client ID: Run ID: **FID-20_425018** SeqNo: **7055924** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.133	0.0500	1	0	113	76 - 124	1.018	10.7	20	
Surr: 4-Bromofluorobenzene	*0.1001*	*0.00500*	*0.1*	*0*	*100*	*52 - 138*	*0.09717*	*2.96*	*20*	

The following samples were analyzed in this batch: HS22121491-01

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: 188221 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MBLK Sample ID: **MBLK-188221** Units: **ug/L** Analysis Date: **09-Jan-2023 13:27**
Client ID: Run ID: **ICPMS06_425467** SeqNo: **7066684** PrepDate: **09-Jan-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	U	500								
Potassium	U	500								
Sodium	U	200								

LCS Sample ID: **LCS-188221** Units: **ug/L** Analysis Date: **09-Jan-2023 13:29**
Client ID: Run ID: **ICPMS06_425467** SeqNo: **7066685** PrepDate: **09-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	5630	500	5000	0	113	85 - 115				
Magnesium	5596	500	5000	0	112	85 - 115				
Potassium	5372	500	5000	0	107	85 - 115				

LCS Sample ID: **LCS-188221** Units: **ug/L** Analysis Date: **09-Jan-2023 14:10**
Client ID: Run ID: **ICPMS06_425467** SeqNo: **7066910** PrepDate: **09-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Sodium	5324	200	5000	0	106	85 - 115				

MS Sample ID: **HS22121573-02MS** Units: **ug/L** Analysis Date: **09-Jan-2023 13:39**
Client ID: Run ID: **ICPMS06_425467** SeqNo: **7066689** PrepDate: **09-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	27740	500	5000	24080	73.3	70 - 130				O
Magnesium	13450	500	5000	8928	90.4	70 - 130				
Potassium	8893	500	5000	3925	99.4	70 - 130				
Sodium	26970	200	5000	23610	67.1	70 - 130				SO

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: 188221 (0) **Instrument: ICPMS06** **Method: TOTAL METALS BY E200.8, REV 5.4, 1994**

MS Sample ID: **HS22121573-01MS** Units: **ug/L** Analysis Date: **09-Jan-2023 13:43**
Client ID: Run ID: **ICPMS06_425467** SeqNo: **7066691** PrepDate: **09-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	38610	500	5000	34280	86.6	70 - 130				O
Magnesium	14950	500	5000	10080	97.4	70 - 130				
Potassium	9803	500	5000	4937	97.3	70 - 130				
Sodium	29950	200	5000	25940	80.3	70 - 130				O

MSD Sample ID: **HS22121573-02MSD** Units: **ug/L** Analysis Date: **09-Jan-2023 13:41**
Client ID: Run ID: **ICPMS06_425467** SeqNo: **7066690** PrepDate: **09-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	27800	500	5000	24080	74.4	70 - 130	27740	0.199	20	O
Magnesium	14110	500	5000	8928	104	70 - 130	13450	4.83	20	
Potassium	9267	500	5000	3925	107	70 - 130	8893	4.11	20	
Sodium	28140	200	5000	23610	90.6	70 - 130	26970	4.26	20	O

MSD Sample ID: **HS22121573-01MSD** Units: **ug/L** Analysis Date: **09-Jan-2023 13:35**
Client ID: Run ID: **ICPMS06_425467** SeqNo: **7066687** PrepDate: **09-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	38550	500	5000	34280	85.4	70 - 130	38610	0.152	20	O
Magnesium	15340	500	5000	10080	105	70 - 130	14950	2.57	20	
Potassium	10250	500	5000	4937	106	70 - 130	9803	4.43	20	
Sodium	30500	200	5000	25940	91.3	70 - 130	29950	1.83	20	O

The following samples were analyzed in this batch: HS22121491-01

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: 188293 (0) **Instrument: ICPMS07** **Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)**

MBLK Sample ID: **MBLKF1-188293** Units: **ug/L** Analysis Date: **10-Jan-2023 21:55**
Client ID: Run ID: **ICPMS07_425572** SeqNo: **7069284** PrepDate: **10-Jan-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	14.16	500								J
Potassium	U	500								
Sodium	U	200								

MBLK Sample ID: **MBLK-188293** Units: **ug/L** Analysis Date: **10-Jan-2023 23:30**
Client ID: Run ID: **ICPMS07_425572** SeqNo: **7069449** PrepDate: **10-Jan-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	8.762	500								J
Potassium	U	500								
Sodium	45.95	200								J

LCS Sample ID: **LCS-188293** Units: **ug/L** Analysis Date: **10-Jan-2023 21:57**
Client ID: Run ID: **ICPMS07_425572** SeqNo: **7069285** PrepDate: **10-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	5471	500	5000	0	109	85 - 115				
Magnesium	5505	500	5000	0	110	85 - 115				
Potassium	5374	500	5000	0	107	85 - 115				
Sodium	5358	200	5000	0	107	85 - 115				

MS Sample ID: **HS22121450-01MS** Units: **ug/L** Analysis Date: **10-Jan-2023 22:01**
Client ID: Run ID: **ICPMS07_425572** SeqNo: **7069287** PrepDate: **10-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	272300	500	5000	266500	116	85 - 115				SEO
Magnesium	309300	500	5000	301600	153	85 - 115				SEO
Potassium	90440	500	5000	85300	103	85 - 115				O
Sodium	2643000	200	5000	2598000	909	85 - 115				SEO

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: 188293 (0) **Instrument: ICPMS07** **Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)**

MSD Sample ID: **HS22121450-01MSD** Units: **ug/L** Analysis Date: **10-Jan-2023 22:03**
Client ID: Run ID: **ICPMS07_425572** SeqNo: **7069288** PrepDate: **10-Jan-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Calcium	272400	500	5000	266500	119	85 - 115	272300	0.0604	20	SEO
Magnesium	309100	500	5000	301600	150	85 - 115	309300	0.0545	20	SEO
Potassium	91370	500	5000	85300	122	85 - 115	90440	1.03	20	SO
Sodium	2616000	200	5000	2598000	364	85 - 115	2643000	1.04	20	SEO

The following samples were analyzed in this batch: HS22121491-02

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: R425009 (0) **Instrument: VOA11** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-221229** Units: **ug/L** Analysis Date: **29-Dec-2022 20:03**
Client ID: Run ID: **VOA11_425009** SeqNo: **7055672** 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	*61.46*	*1.0*	*50*	*0*	*123*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*49.21*	*1.0*	*50*	*0*	*98.4*	*77 - 113*				
Surr: Dibromofluoromethane	*59.81*	*1.0*	*50*	*0*	*120*	*73 - 126*				
Surr: Toluene-d8	*51.75*	*1.0*	*50*	*0*	*103*	*81 - 120*				

LCS Sample ID: **VLCSW-221229** Units: **ug/L** Analysis Date: **29-Dec-2022 19:21**
Client ID: Run ID: **VOA11_425009** SeqNo: **7055671** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.69	1.0	20	0	103	74 - 120				
Ethylbenzene	19.07	1.0	20	0	95.3	77 - 117				
m,p-Xylene	39.79	2.0	40	0	99.5	77 - 122				
o-Xylene	19.54	1.0	20	0	97.7	75 - 119				
Toluene	19.83	1.0	20	0	99.2	77 - 118				
Xylenes, Total	59.33	1.0	60	0	98.9	75 - 122				
Surr: 1,2-Dichloroethane-d4	*56.88*	*1.0*	*50*	*0*	*114*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*47.65*	*1.0*	*50*	*0*	*95.3*	*77 - 113*				
Surr: Dibromofluoromethane	*56.15*	*1.0*	*50*	*0*	*112*	*73 - 126*				
Surr: Toluene-d8	*52.57*	*1.0*	*50*	*0*	*105*	*81 - 120*				

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: R425009 (0) **Instrument: VOA11** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS22121469-01MS** Units: **ug/L** Analysis Date: **29-Dec-2022 20:45**
Client ID: Run ID: **VOA11_425009** SeqNo: **7055674** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.79	1.0	20	0	109	70 - 127				
Ethylbenzene	19.1	1.0	20	0	95.5	70 - 124				
m,p-Xylene	39.24	2.0	40	0	98.1	70 - 130				
o-Xylene	19.33	1.0	20	0	96.7	70 - 124				
Toluene	20.27	1.0	20	0	101	70 - 123				
Xylenes, Total	58.57	1.0	60	0	97.6	70 - 130				
Surr: 1,2-Dichloroethane-d4	*57.12*	*1.0*	*50*	*0*	*114*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*47.36*	*1.0*	*50*	*0*	*94.7*	*77 - 113*				
Surr: Dibromofluoromethane	*56.02*	*1.0*	*50*	*0*	*112*	*77 - 123*				
Surr: Toluene-d8	*51.99*	*1.0*	*50*	*0*	*104*	*82 - 127*				

MSD Sample ID: **HS22121469-01MSD** Units: **ug/L** Analysis Date: **29-Dec-2022 21:06**
Client ID: Run ID: **VOA11_425009** SeqNo: **7055675** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	22.7	1.0	20	0	114	70 - 127	21.79	4.1	20	
Ethylbenzene	20.87	1.0	20	0	104	70 - 124	19.1	8.88	20	
m,p-Xylene	41.98	2.0	40	0	105	70 - 130	39.24	6.75	20	
o-Xylene	20.91	1.0	20	0	105	70 - 124	19.33	7.86	20	
Toluene	21.57	1.0	20	0	108	70 - 123	20.27	6.25	20	
Xylenes, Total	62.89	1.0	60	0	105	70 - 130	58.57	7.12	20	
Surr: 1,2-Dichloroethane-d4	*57.19*	*1.0*	*50*	*0*	*114*	*70 - 126*	*57.12*	*0.126*	*20*	
Surr: 4-Bromofluorobenzene	*47.38*	*1.0*	*50*	*0*	*94.8*	*77 - 113*	*47.36*	*0.0453*	*20*	
Surr: Dibromofluoromethane	*55.87*	*1.0*	*50*	*0*	*112*	*77 - 123*	*56.02*	*0.274*	*20*	
Surr: Toluene-d8	*52.52*	*1.0*	*50*	*0*	*105*	*82 - 127*	*51.99*	*1.02*	*20*	

The following samples were analyzed in this batch: HS22121491-01

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: R424903 (0) **Instrument:** Balance1 **Method:** TOTAL DISSOLVED SOLIDS BY SM2540C-2011

MBLK Sample ID: **WBLK-12272022** Units: **mg/L** Analysis Date: **27-Dec-2022 16:14**
Client ID: Run ID: **Balance1_424903** SeqNo: **7053061** 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-12272022** Units: **mg/L** Analysis Date: **27-Dec-2022 16:14**
Client ID: Run ID: **Balance1_424903** SeqNo: **7053062** 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)	942	10.0	1000	0	94.2	85 - 115				

DUP Sample ID: **HS22121437-01DUP** Units: **mg/L** Analysis Date: **27-Dec-2022 16:14**
Client ID: Run ID: **Balance1_424903** SeqNo: **7053054** 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)	263900	10.0					263800	0.0152	5	

DUP Sample ID: **HS22121350-08DUP** Units: **mg/L** Analysis Date: **27-Dec-2022 16:14**
Client ID: Run ID: **Balance1_424903** SeqNo: **7053048** 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)	2320	10.0					2300	0.866	5	

The following samples were analyzed in this batch: HS22121491-01

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: R425144 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY SM 2320B-2011**

MBLK Sample ID: **MBLK-R425144** Units: **mg/L** Analysis Date: **01-Jan-2023 12:00**
Client ID: Run ID: **Skalar 03_425144** SeqNo: **7058929** 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-R425144** Units: **mg/L** Analysis Date: **01-Jan-2023 12:00**
Client ID: Run ID: **Skalar 03_425144** SeqNo: **7058928** 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)	949.6	5.00	1000	0	95.0	85 - 115				
Alkalinity, Total (As CaCO3)	973	5.00	1000	0	97.3	85 - 115				

LCSD Sample ID: **LCSD-R425144** Units: **mg/L** Analysis Date: **01-Jan-2023 12:00**
Client ID: Run ID: **Skalar 03_425144** SeqNo: **7058927** 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)	917.2	5.00	1000	0	91.7	85 - 115	949.6	3.47	20	
Alkalinity, Total (As CaCO3)	1012	5.00	1000	0	101	85 - 115	973	3.98	20	

DUP Sample ID: **HS22121253-05DUP** Units: **mg/L** Analysis Date: **01-Jan-2023 12:00**
Client ID: Run ID: **Skalar 03_425144** SeqNo: **7058930** 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)	300.5	5.00					280.1	7.03	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Total (As CaCO3)	300.5	5.00					280.1	7.03	20	

The following samples were analyzed in this batch: HS22121491-01

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: R425372 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **05-Jan-2023 11:45**
Client ID: Run ID: **ICS-Integrion_425372** SeqNo: **7064234** 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: **05-Jan-2023 11:55**
Client ID: Run ID: **ICS-Integrion_425372** SeqNo: **7064235** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	19.82	0.500	20	0	99.1	90 - 110				
Sulfate	19.15	0.500	20	0	95.7	90 - 110				

MS Sample ID: **HS22121505-08MS** Units: **mg/L** Analysis Date: **05-Jan-2023 12:21**
Client ID: Run ID: **ICS-Integrion_425372** SeqNo: **7064240** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	52.63	0.500	10	43.37	92.6	80 - 120				O
Sulfate	26.79	0.500	10	17.95	88.4	80 - 120				

MS Sample ID: **HS22121505-02MS** Units: **mg/L** Analysis Date: **05-Jan-2023 12:06**
Client ID: Run ID: **ICS-Integrion_425372** SeqNo: **7064237** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	3193	25.0	500	2731	92.3	80 - 120				O
Sulfate	473.5	25.0	500	7.305	93.2	80 - 120				

MSD Sample ID: **HS22121505-08MSD** Units: **mg/L** Analysis Date: **05-Jan-2023 12:27**
Client ID: Run ID: **ICS-Integrion_425372** SeqNo: **7064241** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	53.23	0.500	10	43.37	98.7	80 - 120	52.63	1.15	20	O
Sulfate	27.1	0.500	10	17.95	91.6	80 - 120	26.79	1.16	20	

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: HS22121491

QC BATCH REPORT

Batch ID: R425372 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MSD Sample ID: **HS22121505-02MSD** Units: **mg/L** Analysis Date: **05-Jan-2023 12:11**
Client ID: Run ID: **ICS-Integrion_425372** SeqNo: **7064238** PrepDate: DF: **50**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Chloride	3195	25.0	500	2731	92.8	80 - 120	3193	0.0689	20	O
Sulfate	476.4	25.0	500	7.305	93.8	80 - 120	473.5	0.622	20	

The following samples were analyzed in this batch: HS22121491-01

Client: PDC Energy
Project: Bost Farm 40C-8-L2
WorkOrder: **HS22121491**

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

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

Sample Receipt Checklist

Work Order ID: HS22121491 **Date/Time Received:** **27-Dec-2022 09:25**

Client Name: PDC Energy 80620 **Received by:** **Si Ma**

Completed By:	/S/ Paresh M. Giga	27-Dec-2022 13:36	**Reviewed by:**	/S/ Tyler Monroe	27-Dec-2022 16:59
	eSignature	Date/Time		eSignature	Date/Time

Matrices: **Water** Carrier name: **Client**

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):	1.1C/0.6C U/C	IR31	
Cooler(s)/Kit(s):	Blue		
Date/Time sample(s) sent to storage:	12/27/22 13:45		
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: Limited volume for BTEX/GRO/RSK & DRO - 1 vial each only.
LImited for TDS/Alk/Anions. 200mls
Extra 1LWH2SO4 received with no label.
Logged in with no analysis

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

Chain of Custody Form

Page ____ of ____

HS22121491

PDC Energy

Bost Farm 40C-8-L2 Facility ID : 478981

ALS Environmental

ALS Project Manager:

Customer Information		Project Information			
Purchase Order		Project Name	Bost Farm 40C-8-L2	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	40C-8-L2 A	12/20/22	12:30	W	8	1	X										
2	40C-8-L2 A	↓	↓	W	1	1		X									
3	40C-8-L2 A			W	1	1			X								
4	40C-8-L2 A			W	1	1				X							
5	40C-8-L2 A			W	8	1					X						
6	40C-8-L2 B			W	8	1						X					
7	40C-8-L2 A			W	2	1							X				
8																	
9																	
10																	

Sampler(s): Please Print & Sign: Max Trehus [signature]

Shipment Method:

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

Results Due Date:

Relinquished by:	Date:	Time:	Received by:	Notes:
[signature]	12/22/22	11:50	[signature]	**Facility ID:** 478981
Relinquished by: [signature]	Date: 12/22/22	Time: 1430	Received by (Laboratory): SM 12/27/22 0725	Cooler Temp. V/C 1.1
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	

QC Package: (Check Box Below)

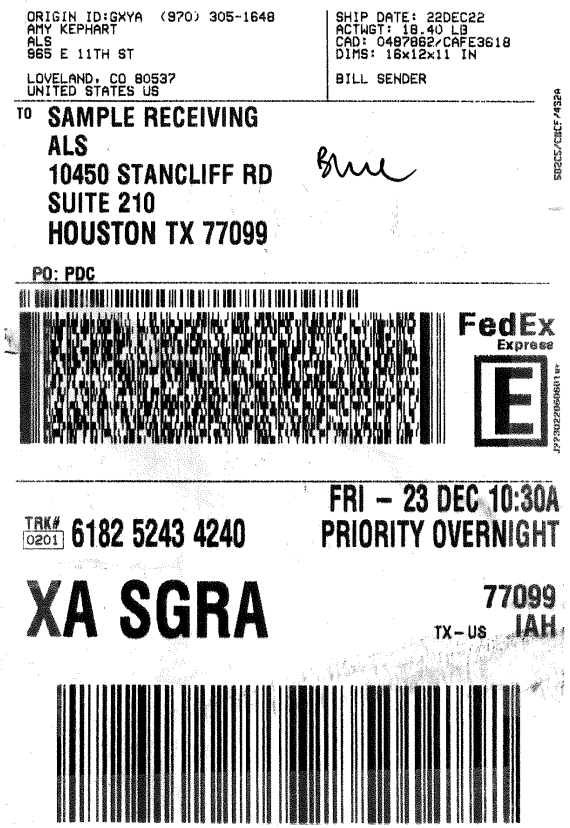
X	Level II: Standard QC		TRRP-Checklist
	Level III: Std QC + Raw Data		TRRP Level IV
	Level IV: SW846 CLP-Like		
	Other: ______		

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.

Cooler Blue IR#31 -0.5

Bmc DEC 27 2022



ORIGIN ID:GXYA (970) 305-1648
AMY KEPHART
ALS
965 E 11TH ST

LOVELAND, CO 80537
UNITED STATES US

SHIP DATE: 22DEC22
ACTWGT: 18.40 LB
CAD: 0487862/CAFE3618
DIMS: 18x12x11 IN

BILL SENDER

TO SAMPLE RECEIVING
ALS
10450 STANCLIFF RD
SUITE 210
HOUSTON TX 77099

Bmc

PO: PDC

FedEx Expres

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