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November 20, 2023

Rick Allison
Colorado Oil and Gas Conservation Comission
1120 Lincoln Street
Suite 801
Denver, CO 80203

Work Order: **HS23110221**

Laboratory Results for: **Prospect MSSU Inj Spill**

Dear Rick Allison,

ALS Environmental received 2 sample(s) on Nov 03, 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: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
Work Order: HS23110221

SAMPLE SUMMARY

Lab Samp ID	Client Sample ID	Matrix	TagNo	Collection Date	Date Received	Hold
HS23110221-01	Upstream	Water		31-Oct-2023 16:12	03-Nov-2023 08:30	☐
HS23110221-02	Outfall Basin	Water		31-Oct-2023 16:58	03-Nov-2023 08:30	☐

Client: Colorado Oil and Gas Conservation Comission **CASE NARRATIVE**
Project: Prospect MSSU Inj Spill
Work Order: HS23110221

GC Semivolatiles by Method SW8015M

Batch ID: 203162

Sample ID: Upstream (HS23110221-01)

- One or more surrogate recoveries were above the upper control limits. No target analytes were detected in the sample. The high surrogate recoveries did not impact the non-detect results for target analytes.

GC Volatiles by Method SW8015

Batch ID: R451729

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

GCMS Volatiles by Method SW8260

Batch ID: R450924

Sample ID: VLCSW-231103

- Surrogate failed outside control limits high. Associated samples are ND.

Sample ID: VSTD050

- Surrogate failed outside control limits high. Associated samples are ND.

Metals by Method E200.8

Batch ID: 203064

Sample ID: HS23101673-03MS

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

Sample ID: HS23101673-03MSD

- MSD is for an unrelated sample

- MSD is for an unrelated sample (Selenium,Strontium)

WetChemistry by Method E365.3

Batch ID: R452135

Sample ID: Outfall Basin (HS23110221-02)

- Sample holding time expired prior to sample receipt. It was analyzed at the request of the client. Results should be considered estimated.

Sample ID: Upstream (HS23110221-01)

- Sample holding time expired prior to sample receipt. It was analyzed at the request of the client. Results should be considered estimated.

Client: Colorado Oil and Gas Conservation Comission **CASE NARRATIVE**
Project: Prospect MSSU Inj Spill
Work Order: HS23110221

WetChemistry by Method E300

Batch ID: R450934

Sample ID: Outfall Basin (HS23110221-02)

- Sample holding time expired prior to sample receipt. It was analyzed at the request of the client. Results should be considered estimated.

Sample ID: Upstream (HS23110221-01)

- Sample holding time expired prior to sample receipt. It was analyzed at the request of the client. Results should be considered estimated.

WetChemistry by Method M2510 B

Batch ID: R451685

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

WetChemistry by Method M2540C

Batch ID: R451063

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

WetChemistry by Method SM4500H+ B

Batch ID: R450931

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

WetChemistry by Method SM2320B

Batch ID: R450927

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

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
Sample ID: Upstream
Collection Date: 31-Oct-2023 16:12

ANALYTICAL REPORT
WorkOrder:HS23110221
Lab ID:HS23110221-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: FT
1,2,4-Trimethylbenzene	U		0.30	1.0	ug/L	1	04-Nov-2023 04:58
1,3,5-Trimethylbenzene	U		0.30	1.0	ug/L	1	04-Nov-2023 04:58
Benzene	U		0.20	1.0	ug/L	1	04-Nov-2023 04:58
Ethylbenzene	U		0.30	1.0	ug/L	1	04-Nov-2023 04:58
Naphthalene	U		0.30	1.0	ug/L	1	04-Nov-2023 04:58
Toluene	U		0.20	1.0	ug/L	1	04-Nov-2023 04:58
Xylenes, Total	U		0.30	3.0	ug/L	1	04-Nov-2023 04:58
Surr: 1,2-Dichloroethane-d4	*104*			*70-126*	*%REC*	*1*	*04-Nov-2023 04:58*
Surr: 4-Bromofluorobenzene	*107*			*77-113*	*%REC*	*1*	*04-Nov-2023 04:58*
Surr: Dibromofluoromethane	*102*			*77-123*	*%REC*	*1*	*04-Nov-2023 04:58*
Surr: Toluene-d8	*98.4*			*82-127*	*%REC*	*1*	*04-Nov-2023 04:58*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**					Analyst: TS
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	13-Nov-2023 18:51
Surr: 4-Bromofluorobenzene	*119*			*70-123*	*%REC*	*1*	*13-Nov-2023 18:51*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**			Prep:SW3511 / 07-Nov-2023		Analyst: SAM
TPH (Diesel Range)	U		0.020	0.051	mg/L	1	11-Nov-2023 11:59
TPH (Oil Range)	U		0.020	0.10	mg/L	1	11-Nov-2023 11:59
Surr: 2-Fluorobiphenyl	*173*	*S*		*60-135*	*%REC*	*1*	*11-Nov-2023 11:59*
DISSOLVED METALS BY E200.8, REV 5.4, 1994		**Method:E200.8 (dissolved)**			Prep:E200.8 / 07-Nov-2023		Analyst: MSC
Barium	**23.8**		**0.0840**	**2.00**	**ug/L**	1	08-Nov-2023 15:36
Boron	**408**		**16.7**	**20.0**	**ug/L**	1	08-Nov-2023 15:36
Calcium	**239,000**		**1800**	**50000**	**ug/L**	100	09-Nov-2023 14:19
Iron	U		50.0	200	ug/L	1	08-Nov-2023 15:36
Magnesium	**199,000**		**780**	**50000**	**ug/L**	100	09-Nov-2023 14:19
Manganese	**13.9**		**0.0660**	**5.00**	**ug/L**	1	08-Nov-2023 15:36
Potassium	**4,880**		**33.0**	**500**	**ug/L**	1	08-Nov-2023 15:36
Selenium	**0.875**	J	**0.860**	**2.00**	**ug/L**	1	08-Nov-2023 15:36
Sodium	**170,000**		**21.0**	**200**	**ug/L**	1	08-Nov-2023 15:36
Strontium	**4,520**		**6.20**	**500**	**ug/L**	100	09-Nov-2023 14:19
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	04-Nov-2023 09:11
Chloride	**22.7**		**0.200**	**0.500**	**mg/L**	1	04-Nov-2023 09:11
Fluoride	**1.12**		**0.0500**	**0.100**	**mg/L**	1	04-Nov-2023 09:11
Nitrogen, Nitrate (As N)	U	H	0.0300	0.100	mg/L	1	04-Nov-2023 09:11
Nitrogen, Nitrite (As N)	U	H	0.0300	0.100	mg/L	1	04-Nov-2023 09:11
Sulfate	**1,850**		**4.00**	**10.0**	**mg/L**	20	04-Nov-2023 09:17
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**					Analyst: AB
Phosphorus, Total Orthophosphate (As P)	**0.0480**	H	**0.0100**	**0.0250**	**mg/L**	1	17-Nov-2023 14:35

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

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
Sample ID: Upstream
Collection Date: 31-Oct-2023 16:12

ANALYTICAL REPORT
WorkOrder:HS23110221
Lab ID:HS23110221-01
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SPECIFIC CONDUCTANCE BY SM 2510B-2011		**Method:M2510 B**					Analyst: CD
Specific Conductivity	**2,780**		**5.00**	**5.00**	**umhos/cm @ 25.0 °C**	1	13-Nov-2023 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**					Analyst: DC
Total Dissolved Solids (Residue, Filterable)	**1,990**		**5.00**	**10.0**	**mg/L**	1	06-Nov-2023 12:30
ALKALINITY BY -2011		**Method:SM2320B**					Analyst: DW
Alkalinity, Bicarbonate (As CaCO3)	U		3.50	5.00	mg/L	1	04-Nov-2023 20:25
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	04-Nov-2023 20:25
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	04-Nov-2023 20:25
Alkalinity, Total (As CaCO3)	U		3.50	5.00	mg/L	1	04-Nov-2023 20:25
PH BY SM4500H+ B-2011		**Method:SM4500H+ B**					Analyst: DW
pH	**8.27**	H	**0.100**	**0.100**	**pH Units**	1	04-Nov-2023 20:25
Temp Deg C @pH	**23.6**	H	**0**	**0**	**°C**	1	04-Nov-2023 20:25

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

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
Sample ID: Outfall Basin
Collection Date: 31-Oct-2023 16:58

ANALYTICAL REPORT
WorkOrder:HS23110221
Lab ID:HS23110221-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
LOW LEVEL VOLATILES BY SW8260C		**Method:SW8260**					Analyst: FT
1,2,4-Trimethylbenzene	U		0.30	1.0	ug/L	1	04-Nov-2023 05:18
1,3,5-Trimethylbenzene	U		0.30	1.0	ug/L	1	04-Nov-2023 05:18
Benzene	**2.6**		**0.20**	**1.0**	**ug/L**	1	04-Nov-2023 05:18
Ethylbenzene	U		0.30	1.0	ug/L	1	04-Nov-2023 05:18
Naphthalene	U		0.30	1.0	ug/L	1	04-Nov-2023 05:18
Toluene	**2.9**		**0.20**	**1.0**	**ug/L**	1	04-Nov-2023 05:18
Xylenes, Total	U		0.30	3.0	ug/L	1	04-Nov-2023 05:18
Surr: 1,2-Dichloroethane-d4	*107*			*70-126*	*%REC*	*1*	*04-Nov-2023 05:18*
Surr: 4-Bromofluorobenzene	*109*			*77-113*	*%REC*	*1*	*04-Nov-2023 05:18*
Surr: Dibromofluoromethane	*104*			*77-123*	*%REC*	*1*	*04-Nov-2023 05:18*
Surr: Toluene-d8	*98.8*			*82-127*	*%REC*	*1*	*04-Nov-2023 05:18*
GASOLINE RANGE ORGANICS BY SW8015C		**Method:SW8015**					Analyst: TS
Gasoline Range Organics	U		0.0100	0.0500	mg/L	1	13-Nov-2023 19:04
Surr: 4-Bromofluorobenzene	*119*			*70-123*	*%REC*	*1*	*13-Nov-2023 19:04*
TPH DRO/ORO BY SW8015C		**Method:SW8015M**			Prep:SW3511 / 07-Nov-2023		Analyst: SAM
TPH (Diesel Range)	U		0.020	0.050	mg/L	1	14-Nov-2023 12:21
TPH (Oil Range)	**0.10**		**0.020**	**0.10**	**mg/L**	1	14-Nov-2023 12:21
Surr: 2-Fluorobiphenyl	*126*			*60-135*	*%REC*	*1*	*14-Nov-2023 12:21*
DISSOLVED METALS BY E200.8, REV 5.4, 1994		**Method:E200.8 (dissolved)**			Prep:E200.8 / 07-Nov-2023		Analyst: MSC
Barium	**19.8**		**0.0840**	**2.00**	**ug/L**	1	08-Nov-2023 15:38
Boron	**468**		**16.7**	**20.0**	**ug/L**	1	08-Nov-2023 15:38
Calcium	**178,000**		**18.0**	**500**	**ug/L**	1	08-Nov-2023 15:38
Iron	**53.5**	J	**50.0**	**200**	**ug/L**	1	08-Nov-2023 15:38
Magnesium	**94,800**		**7.80**	**500**	**ug/L**	1	08-Nov-2023 15:38
Manganese	**15.4**		**0.0660**	**5.00**	**ug/L**	1	08-Nov-2023 15:38
Potassium	**2,830**		**33.0**	**500**	**ug/L**	1	08-Nov-2023 15:38
Selenium	**2.42**		**0.860**	**2.00**	**ug/L**	1	08-Nov-2023 15:38
Sodium	**175,000**		**21.0**	**200**	**ug/L**	1	08-Nov-2023 15:38
Strontium	**4,390**		**6.20**	**500**	**ug/L**	100	09-Nov-2023 14:21
ANIONS BY E300.0, REV 2.1, 1993		**Method:E300**					Analyst: TH
Bromide	U		0.0300	0.100	mg/L	1	04-Nov-2023 09:23
Chloride	**56.3**		**0.200**	**0.500**	**mg/L**	1	04-Nov-2023 09:23
Fluoride	**2.01**		**0.0500**	**0.100**	**mg/L**	1	04-Nov-2023 09:23
Nitrogen, Nitrate (As N)	**0.366**	H	**0.0300**	**0.100**	**mg/L**	1	04-Nov-2023 09:23
Nitrogen, Nitrite (As N)	U	H	0.0300	0.100	mg/L	1	04-Nov-2023 09:23
Sulfate	**1,150**		**4.00**	**10.0**	**mg/L**	20	04-Nov-2023 09:29
ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978		**Method:E365.3**					Analyst: AB
Phosphorus, Total Orthophosphate (As P)	**0.0640**	H	**0.0100**	**0.0250**	**mg/L**	1	17-Nov-2023 14:35

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

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
Sample ID: Outfall Basin
Collection Date: 31-Oct-2023 16:58

ANALYTICAL REPORT
WorkOrder:HS23110221
Lab ID:HS23110221-02
Matrix:Water

ANALYSES	RESULT	QUAL	MDL	REPORT LIMIT	UNITS	DILUTION FACTOR	DATE ANALYZED
SPECIFIC CONDUCTANCE BY SM 2510B-2011		**Method:M2510 B**					Analyst: CD
Specific Conductivity	**2,160**		**5.00**	**5.00**	**umhos/cm @ 25.0 °C**	1	13-Nov-2023 16:00
TOTAL DISSOLVED SOLIDS BY SM2540C -2011		**Method:M2540C**					Analyst: DC
Total Dissolved Solids (Residue, Filterable)	**1,620**		**5.00**	**10.0**	**mg/L**	1	06-Nov-2023 12:30
ALKALINITY BY -2011		**Method:SM2320B**					Analyst: DW
Alkalinity, Bicarbonate (As CaCO3)	U		3.50	5.00	mg/L	1	04-Nov-2023 20:28
Alkalinity, Carbonate (As CaCO3)	U		3.50	5.00	mg/L	1	04-Nov-2023 20:28
Alkalinity, Hydroxide (As CaCO3)	U		3.50	5.00	mg/L	1	04-Nov-2023 20:28
Alkalinity, Total (As CaCO3)	U		3.50	5.00	mg/L	1	04-Nov-2023 20:28
PH BY SM4500H+ B-2011		**Method:SM4500H+ B**					Analyst: DW
pH	**8.13**	H	**0.100**	**0.100**	**pH Units**	1	04-Nov-2023 20:28
Temp Deg C @pH	**23.7**	H	**0**	**0**	**°C**	1	04-Nov-2023 20:28

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

Weight / Prep Log

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

Batch ID: 203024 **Start Date:** 03 Nov 2023 15:00 **End Date:** 03 Nov 2023 15:00
Method: SAMPLE FILTRATION - 0.45 MICRON FILTER **Prep Code:** FILTRATION

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23110221-01		100 (mL)	100 (mL)	1	120 mL Plastic Neat
HS23110221-02		100 (mL)	100 (mL)	1	120 mL Plastic Neat

Batch ID: 203064 **Start Date:** 07 Nov 2023 09:00 **End Date:** 07 Nov 2023 09:00
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	
HS23110221-01		10 (mL)	10 (mL)	1	120 mL Plastic Neat
HS23110221-02		10 (mL)	10 (mL)	1	120 mL Plastic Neat

Batch ID: 203162 **Start Date:** 07 Nov 2023 15:00 **End Date:** 07 Nov 2023 15:00
Method: SW3511 **Prep Code:** 3511_DRO

Sample ID	Container	Sample Wt/Vol	Final Volume	Prep Factor	
HS23110221-01		32.32 (mL)	2 (mL)	0.06188	40 mL Amber
HS23110221-02		32.72 (mL)	2 (mL)	0.06112	40 mL Amber

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

DATES REPORT

Sample ID	Client Samp ID	Collection Date	Leachate Date	Prep Date	Analysis Date	DF
Batch ID: 203064 (0)	**Test Name :** DISSOLVED METALS BY E200.8, REV 5.4, 1994				**Matrix:** Water	
HS23110221-01	Upstream	31 Oct 2023 16:12		07 Nov 2023 09:00	09 Nov 2023 14:19	100
HS23110221-01	Upstream	31 Oct 2023 16:12		07 Nov 2023 09:00	08 Nov 2023 15:36	1
HS23110221-02	Outfall Basin	31 Oct 2023 16:58		07 Nov 2023 09:00	09 Nov 2023 14:21	100
HS23110221-02	Outfall Basin	31 Oct 2023 16:58		07 Nov 2023 09:00	08 Nov 2023 15:38	1
Batch ID: 203162 (0)	**Test Name :** TPH DRO/ORO BY SW8015C				**Matrix:** Water	
HS23110221-01	Upstream	31 Oct 2023 16:12		07 Nov 2023 15:00	11 Nov 2023 11:59	1
HS23110221-02	Outfall Basin	31 Oct 2023 16:58		07 Nov 2023 15:00	14 Nov 2023 12:21	1
Batch ID: R450924 (0)	**Test Name :** LOW LEVEL VOLATILES BY SW8260C				**Matrix:** Water	
HS23110221-01	Upstream	31 Oct 2023 16:12			04 Nov 2023 04:58	1
HS23110221-02	Outfall Basin	31 Oct 2023 16:58			04 Nov 2023 05:18	1
Batch ID: R450927 (0)	**Test Name :** ALKALINITY BY -2011				**Matrix:** Water	
HS23110221-01	Upstream	31 Oct 2023 16:12			04 Nov 2023 20:25	1
HS23110221-02	Outfall Basin	31 Oct 2023 16:58			04 Nov 2023 20:28	1
Batch ID: R450931 (0)	**Test Name :** PH BY SM4500H+ B-2011				**Matrix:** Water	
HS23110221-01	Upstream	31 Oct 2023 16:12			04 Nov 2023 20:25	1
HS23110221-02	Outfall Basin	31 Oct 2023 16:58			04 Nov 2023 20:28	1
Batch ID: R450934 (0)	**Test Name :** ANIONS BY E300.0, REV 2.1, 1993				**Matrix:** Water	
HS23110221-01	Upstream	31 Oct 2023 16:12			04 Nov 2023 09:17	20
HS23110221-01	Upstream	31 Oct 2023 16:12			04 Nov 2023 09:11	1
HS23110221-02	Outfall Basin	31 Oct 2023 16:58			04 Nov 2023 09:29	20
HS23110221-02	Outfall Basin	31 Oct 2023 16:58			04 Nov 2023 09:23	1
Batch ID: R451063 (0)	**Test Name :** TOTAL DISSOLVED SOLIDS BY SM2540C-2011				**Matrix:** Water	
HS23110221-01	Upstream	31 Oct 2023 16:12			06 Nov 2023 12:30	1
HS23110221-02	Outfall Basin	31 Oct 2023 16:58			06 Nov 2023 12:30	1
Batch ID: R451685 (0)	**Test Name :** SPECIFIC CONDUCTANCE BY SM 2510B-2011				**Matrix:** Water	
HS23110221-01	Upstream	31 Oct 2023 16:12			13 Nov 2023 16:00	1
HS23110221-02	Outfall Basin	31 Oct 2023 16:58			13 Nov 2023 16:00	1
Batch ID: R451729 (0)	**Test Name :** GASOLINE RANGE ORGANICS BY SW8015C				**Matrix:** Water	
HS23110221-01	Upstream	31 Oct 2023 16:12			13 Nov 2023 18:51	1
HS23110221-02	Outfall Basin	31 Oct 2023 16:58			13 Nov 2023 19:04	1
Batch ID: R452135 (0)	**Test Name :** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978				**Matrix:** Water	
HS23110221-01	Upstream	31 Oct 2023 16:12			17 Nov 2023 14:35	1
HS23110221-02	Outfall Basin	31 Oct 2023 16:58			17 Nov 2023 14:35	1

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: 203162 (0) **Instrument: FID-16** **Method: TPH DRO/ORO BY SW8015C**

MBLK Sample ID: **MBLK-203162** Units: **mg/L** Analysis Date: **11-Nov-2023 10:01**
Client ID: Run ID: **FID-16_452211** SeqNo: **7682384** PrepDate: **07-Nov-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								
TPH (Oil Range)	U	0.10								
Surr: 2-Fluorobiphenyl	*0.07235*	*0.0050*	*0.06*	*0*	*121*	*60 - 135*				

LCS Sample ID: **LCS-203162** Units: **mg/L** Analysis Date: **11-Nov-2023 10:30**
Client ID: Run ID: **FID-16_452211** SeqNo: **7682385** PrepDate: **07-Nov-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	0.5221	0.050	0.6	0	87.0	70 - 130				
TPH (Oil Range)	0.5901	0.10	0.6	0	98.3	70 - 130				
Surr: 2-Fluorobiphenyl	*0.06358*	*0.0050*	*0.06*	*0*	*106*	*60 - 135*				

LCSD Sample ID: **LCSD-203162** Units: **mg/L** Analysis Date: **11-Nov-2023 11:00**
Client ID: Run ID: **FID-16_452211** SeqNo: **7682386** PrepDate: **07-Nov-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
TPH (Diesel Range)	0.5239	0.050	0.6	0	87.3	70 - 130	0.5221	0.337	20	
TPH (Oil Range)	0.6022	0.10	0.6	0	100	70 - 130	0.5901	2.04	20	
Surr: 2-Fluorobiphenyl	*0.06358*	*0.0050*	*0.06*	*0*	*106*	*60 - 135*	*0.06358*	*0.00915*	*20*	

The following samples were analyzed in this batch: HS23110221-01 HS23110221-02

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: R451729 (0) **Instrument:** FID-20 **Method:** GASOLINE RANGE ORGANICS BY SW8015C

MBLK Sample ID: **MBLK-231113** Units: **mg/L** Analysis Date: **13-Nov-2023 18:37**
Client ID: Run ID: **FID-20_451729** SeqNo: **7672732** 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	*0.1192*	*0.00500*	*0.1*	*0*	*119*	*70 - 121*				

LCS Sample ID: **LCS-231113** Units: **mg/L** Analysis Date: **13-Nov-2023 18:10**
Client ID: Run ID: **FID-20_451729** SeqNo: **7672730** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.131	0.0500	1	0	113	76 - 124				
Surr: 4-Bromofluorobenzene	*0.1021*	*0.00500*	*0.1*	*0*	*102*	*52 - 138*				

LCSD Sample ID: **LCSD-231113** Units: **mg/L** Analysis Date: **13-Nov-2023 18:23**
Client ID: Run ID: **FID-20_451729** SeqNo: **7672731** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Gasoline Range Organics	1.094	0.0500	1	0	109	76 - 124	1.131	3.38	20	
Surr: 4-Bromofluorobenzene	*0.09187*	*0.00500*	*0.1*	*0*	*91.9*	*52 - 138*	*0.1021*	*10.6*	*20*	

The following samples were analyzed in this batch: HS23110221-01 HS23110221-02

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: 203064 (0) **Instrument: ICPMS06** **Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)**

MBLK Sample ID: **MBLKF2-203064** Units: **ug/L** Analysis Date: **08-Nov-2023 15:01**
Client ID: Run ID: **ICPMS06_451242** SeqNo: **7661952** PrepDate: **07-Nov-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.181	2.00								J
Boron	U	20.0								
Calcium	U	500								
Iron	U	200								
Magnesium	17.73	500								J
Manganese	U	5.00								
Potassium	U	500								
Selenium	U	2.00								
Sodium	U	200								
Strontium	0.089	5.00								J

MBLK Sample ID: **MBLKF4-203064** Units: **ug/L** Analysis Date: **08-Nov-2023 15:05**
Client ID: Run ID: **ICPMS06_451242** SeqNo: **7661954** PrepDate: **07-Nov-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.129	2.00								J
Boron	U	20.0								
Calcium	19.05	500								J
Iron	57.04	200								J
Magnesium	19.1	500								J
Manganese	0.419	5.00								J
Potassium	U	500								
Selenium	U	2.00								
Sodium	U	200								
Strontium	0.109	5.00								J

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: 203064 (0) **Instrument: ICPMS06** **Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)**

MBLK Sample ID: **MBLKF3-203064** Units: **ug/L** Analysis Date: **08-Nov-2023 15:03**
Client ID: Run ID: **ICPMS06_451242** SeqNo: **7661953** PrepDate: **07-Nov-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.092	2.00								J
Boron	U	20.0								
Calcium	U	500								
Iron	U	200								
Magnesium	U	500								
Manganese	0.148	5.00								J
Potassium	U	500								
Selenium	U	2.00								
Sodium	U	200								
Strontium	U	5.00								

MBLK Sample ID: **MBLKF1-203064** Units: **ug/L** Analysis Date: **08-Nov-2023 14:59**
Client ID: Run ID: **ICPMS06_451242** SeqNo: **7661951** PrepDate: **07-Nov-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	0.163	2.00								J
Boron	U	20.0								
Calcium	U	500								
Iron	U	200								
Magnesium	16.76	500								J
Manganese	0.175	5.00								J
Potassium	U	500								
Selenium	U	2.00								
Sodium	U	200								
Strontium	0.072	5.00								J

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: 203064 (0) **Instrument: ICPMS06** **Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)**

MBLK Sample ID: **MBLK-203064** Units: **ug/L** Analysis Date: **08-Nov-2023 14:23**
Client ID: Run ID: **ICPMS06_451242** SeqNo: **7661653** PrepDate: **07-Nov-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	U	0.0200								
Boron	U	0.0500								
Calcium	U	0.500								
Iron	U	0.200								
Magnesium	0.01615	0.200								J
Manganese	U	0.00500								
Potassium	U	0.200								
Selenium	U	0.00500								
Sodium	U	0.200								
Strontium	U	0.00500								

LCS Sample ID: **LCS-203064** Units: **ug/L** Analysis Date: **08-Nov-2023 15:07**
Client ID: Run ID: **ICPMS06_451242** SeqNo: **7661955** PrepDate: **07-Nov-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	48.68	2.00	50	0	97.4	85 - 115				
Boron	462.2	20.0	500	0	92.4	85 - 115				
Calcium	5016	500	5000	0	100	85 - 115				
Iron	4970	200	5000	0	99.4	85 - 115				
Magnesium	4933	500	5000	0	98.7	85 - 115				
Manganese	47.67	5.00	50	0	95.3	85 - 115				
Potassium	4882	500	5000	0	97.6	85 - 115				
Selenium	48.17	2.00	50	0	96.3	85 - 115				
Sodium	4746	200	5000	0	94.9	85 - 115				
Strontium	87.41	5.00	100	0	87.4	85 - 115				

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: 203064 (0) **Instrument: ICPMS06** **Method: DISSOLVED METALS BY E200.8, REV 5.4, 1994 (DISSOLVED)**

MS Sample ID: **HS23101673-03MS** Units: **ug/L** Analysis Date: **08-Nov-2023 15:11**
Client ID: Run ID: **ICPMS06_451242** SeqNo: **7661957** PrepDate: **07-Nov-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	142.2	2.00	50	96.85	90.8	85 - 115				
Boron	774.4	20.0	500	233.7	108	85 - 115				
Calcium	215600	500	5000	208700	138	85 - 115				SEO
Iron	5055	200	5000	89.94	99.3	85 - 115				
Magnesium	187000	500	5000	179100	158	85 - 115				SEO
Manganese	61.68	5.00	50	11.06	101	85 - 115				
Potassium	10280	500	5000	5102	104	85 - 115				
Selenium	320.7	2.00	50	267.9	106	85 - 115				O
Sodium	409100	200	5000	396900	245	85 - 115				SEO
Strontium	3590	5.00	100	3498	91.3	85 - 115				EO

MSD Sample ID: **HS23101673-03MSD** Units: **ug/L** Analysis Date: **08-Nov-2023 15:12**
Client ID: Run ID: **ICPMS06_451242** SeqNo: **7661958** PrepDate: **07-Nov-2023** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	136.6	2.00	50	96.85	79.4	85 - 115	142.2	4.08	20	S
Boron	793.3	20.0	500	233.7	112	85 - 115	774.4	2.41	20	
Calcium	207700	500	5000	208700	-18.7	85 - 115	215600	3.69	20	SEO
Iron	5031	200	5000	89.94	98.8	85 - 115	5055	0.469	20	
Magnesium	179000	500	5000	179100	-1.77	85 - 115	187000	4.37	20	SO
Manganese	58.25	5.00	50	11.06	94.4	85 - 115	61.68	5.72	20	
Potassium	9974	500	5000	5102	97.4	85 - 115	10280	3	20	
Selenium	307.1	2.00	50	267.9	78.3	85 - 115	320.7	4.36	20	SO
Sodium	389200	200	5000	396900	-153	85 - 115	409100	4.99	20	SEO
Strontium	3374	5.00	100	3498	-124	85 - 115	3590	6.18	20	SEO

The following samples were analyzed in this batch: HS23110221-01 HS23110221-02

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: R450924 (0) **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

MBLK Sample ID: **VBLKW-231103** Units: **ug/L** Analysis Date: **03-Nov-2023 21:49**
Client ID: Run ID: **VOA13_450924** SeqNo: **7652277** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	U	1.0								
1,3,5-Trimethylbenzene	U	1.0								
Benzene	U	1.0								
Ethylbenzene	U	1.0								
Naphthalene	U	1.0								
Toluene	U	1.0								
Xylenes, Total	U	3.0								
Surr: 1,2-Dichloroethane-d4	*48.51*	*1.0*	*50*	*0*	*97.0*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*54.4*	*1.0*	*50*	*0*	*109*	*77 - 113*				
Surr: Dibromofluoromethane	*48.41*	*1.0*	*50*	*0*	*96.8*	*73 - 126*				
Surr: Toluene-d8	*50.07*	*1.0*	*50*	*0*	*100*	*81 - 120*				

LCS Sample ID: **VLCSW-231103** Units: **ug/L** Analysis Date: **03-Nov-2023 21:09**
Client ID: Run ID: **VOA13_450924** SeqNo: **7652276** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	21.43	1.0	20	0	107	73 - 121				
1,3,5-Trimethylbenzene	19.43	1.0	20	0	97.2	75 - 118				
Benzene	19.35	1.0	20	0	96.8	74 - 120				
Ethylbenzene	20.47	1.0	20	0	102	77 - 117				
Naphthalene	18.97	1.0	20	0	94.8	70 - 130				
Toluene	20.14	1.0	20	0	101	77 - 118				
Xylenes, Total	64.76	3.0	60	0	108	75 - 122				
Surr: 1,2-Dichloroethane-d4	*50.74*	*1.0*	*50*	*0*	*101*	*70 - 123*				
Surr: 4-Bromofluorobenzene	*56.69*	*1.0*	*50*	*0*	*113*	*77 - 113*				S
Surr: Dibromofluoromethane	*47.51*	*1.0*	*50*	*0*	*95.0*	*73 - 126*				
Surr: Toluene-d8	*51.09*	*1.0*	*50*	*0*	*102*	*81 - 120*				

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: R450924 (0) **Instrument: VOA13** **Method: LOW LEVEL VOLATILES BY SW8260C**

MS Sample ID: **HS23110065-02MS** Units: **ug/L** Analysis Date: **03-Nov-2023 23:11**
Client ID: Run ID: **VOA13_450924** SeqNo: **7652281** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1558	100	2000	0	77.9	70 - 125				
1,3,5-Trimethylbenzene	1493	100	2000	0	74.6	70 - 126				
Benzene	9093	100	2000	8053	52.0	70 - 127				SO
Ethylbenzene	2036	100	2000	470.2	78.3	70 - 124				
Naphthalene	1987	100	2000	0	99.3	70 - 130				
Toluene	1518	100	2000	0	75.9	70 - 123				
Xylenes, Total	4664	300	6000	0	77.7	70 - 130				
Surr: 1,2-Dichloroethane-d4	*4991*	*100*	*5000*	*0*	*99.8*	*70 - 126*				
Surr: 4-Bromofluorobenzene	*5316*	*100*	*5000*	*0*	*106*	*77 - 113*				
Surr: Dibromofluoromethane	*4655*	*100*	*5000*	*0*	*93.1*	*77 - 123*				
Surr: Toluene-d8	*5094*	*100*	*5000*	*0*	*102*	*82 - 127*				

MSD Sample ID: **HS23110065-02MSD** Units: **ug/L** Analysis Date: **03-Nov-2023 23:31**
Client ID: Run ID: **VOA13_450924** SeqNo: **7652282** PrepDate: DF: **100**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1416	100	2000	0	70.8	70 - 125	1558	9.57	20	
1,3,5-Trimethylbenzene	1389	100	2000	0	69.5	70 - 126	1493	7.19	20	S
Benzene	8802	100	2000	8053	37.5	70 - 127	9093	3.25	20	SO
Ethylbenzene	1854	100	2000	470.2	69.2	70 - 124	2036	9.35	20	S
Naphthalene	1783	100	2000	0	89.1	70 - 130	1987	10.8	20	
Toluene	1403	100	2000	0	70.1	70 - 123	1518	7.88	20	
Xylenes, Total	4430	300	6000	0	73.8	70 - 130	4664	5.16	20	
Surr: 1,2-Dichloroethane-d4	*4831*	*100*	*5000*	*0*	*96.6*	*70 - 126*	*4991*	*3.28*	*20*	
Surr: 4-Bromofluorobenzene	*5467*	*100*	*5000*	*0*	*109*	*77 - 113*	*5316*	*2.8*	*20*	
Surr: Dibromofluoromethane	*4535*	*100*	*5000*	*0*	*90.7*	*77 - 123*	*4655*	*2.61*	*20*	
Surr: Toluene-d8	*4962*	*100*	*5000*	*0*	*99.2*	*82 - 127*	*5094*	*2.61*	*20*	

The following samples were analyzed in this batch: HS23110221-01 HS23110221-02

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: R450927 (0) **Instrument: Skalar 03** **Method: ALKALINITY BY -2011**

MBLK Sample ID: **MBLK-11.04.2023** Units: **mg/L** Analysis Date: **04-Nov-2023 18:07**
Client ID: Run ID: **Skalar 03_450927** SeqNo: **7652308** 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, Hydroxide (As CaCO3)	U	5.00								
Alkalinity, Total (As CaCO3)	U	5.00								

LCS Sample ID: **LCS-11.04.2023** Units: **mg/L** Analysis Date: **04-Nov-2023 18:14**
Client ID: Run ID: **Skalar 03_450927** SeqNo: **7652309** 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)	876.6	5.00	1000	0	87.7	85 - 115				
Alkalinity, Total (As CaCO3)	945.5	5.00	1000	0	94.6	85 - 115				

LCSD Sample ID: **LCSD-11.04.2023** Units: **mg/L** Analysis Date: **04-Nov-2023 18:20**
Client ID: Run ID: **Skalar 03_450927** SeqNo: **7652310** 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)	870	5.00	1000	0	87.0	85 - 115	876.6	0.756	20	
Alkalinity, Total (As CaCO3)	946.4	5.00	1000	0	94.6	85 - 115	945.5	0.0951	20	

DUP Sample ID: **HS23101893-07DUP** Units: **mg/L** Analysis Date: **04-Nov-2023 18:31**
Client ID: Run ID: **Skalar 03_450927** SeqNo: **7652312** 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)	238.3	5.00					232.6	2.42	20	
Alkalinity, Carbonate (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Hydroxide (As CaCO3)	U	5.00					0	0	20	
Alkalinity, Total (As CaCO3)	238.3	5.00					232.6	2.42	20	

The following samples were analyzed in this batch: HS23110221-01 HS23110221-02

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: R450931 (0) **Instrument: Skalar 03** **Method: PH BY SM4500H+ B-2011**

DUP Sample ID: **HS23101893-07DUP** Units: **pH Units** Analysis Date: **04-Nov-2023 18:31**
Client ID: Run ID: **Skalar 03_450931** SeqNo: **7652414** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
pH	7.91	0.100					7.91	0	10	
Temp Deg C @pH	23.4	0					23.8	1.69	10	

The following samples were analyzed in this batch: HS23110221-01 HS23110221-02

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: R450934 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MBLK Sample ID: **MBLK** Units: **mg/L** Analysis Date: **04-Nov-2023 08:54**
Client ID: Run ID: **ICS-Integrion_450934** SeqNo: **7652501** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	U	0.100								
Chloride	U	0.500								
Fluoride	U	0.100								
Nitrogen, Nitrate (As N)	U	0.100								
Nitrogen, Nitrite (As N)	U	0.100								
Sulfate	U	0.500								

LCS Sample ID: **LCS** Units: **mg/L** Analysis Date: **04-Nov-2023 08:59**
Client ID: Run ID: **ICS-Integrion_450934** SeqNo: **7652502** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	4.265	0.100	4	0	107	90 - 110				
Chloride	20.65	0.500	20	0	103	90 - 110				
Fluoride	4.394	0.100	4	0	110	90 - 110				
Nitrogen, Nitrate (As N)	4.201	0.100	4	0	105	90 - 110				
Nitrogen, Nitrite (As N)	4.256	0.100	4	0	106	90 - 110				
Sulfate	20.95	0.500	20	0	105	90 - 110				

MS Sample ID: **HS23102009-02MS** Units: **mg/L** Analysis Date: **04-Nov-2023 10:38**
Client ID: Run ID: **ICS-Integrion_450934** SeqNo: **7652513** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	50.54	0.500	10	39.48	111	80 - 120				
Chloride	179	2.50	50	124.3	109	80 - 120				
Fluoride	14.61	0.500	10	3.922	107	80 - 120				
Nitrogen, Nitrate (As N)	29.48	0.500	10	19.57	99.0	80 - 120				
Nitrogen, Nitrite (As N)	10.97	0.500	10	0.9275	100	80 - 120				
Sulfate	113.7	2.50	50	54.06	119	80 - 120				

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: R450934 (0) **Instrument: ICS-Integrion** **Method: ANIONS BY E300.0, REV 2.1, 1993**

MS Sample ID: **HS23102009-01MS** Units: **mg/L** Analysis Date: **04-Nov-2023 09:40**
Client ID: Run ID: **ICS-Integrion_450934** SeqNo: **7652508** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.317	0.100	2	0	116	80 - 120				
Chloride	10.91	0.500	10	0.408	105	80 - 120				
Fluoride	2.322	0.100	2	0.1123	110	80 - 120				
Nitrogen, Nitrate (As N)	2.195	0.100	2	0	110	80 - 120				
Nitrogen, Nitrite (As N)	2.277	0.100	2	0.097	109	80 - 120				
Sulfate	10.91	0.500	10	0.8776	100	80 - 120				

MSD Sample ID: **HS23102009-02MSD** Units: **mg/L** Analysis Date: **04-Nov-2023 10:44**
Client ID: Run ID: **ICS-Integrion_450934** SeqNo: **7652514** PrepDate: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	50.94	0.500	10	39.48	115	80 - 120	50.54	0.784	20	
Chloride	179.6	2.50	50	124.3	111	80 - 120	179	0.332	20	
Fluoride	14.34	0.500	10	3.922	104	80 - 120	14.61	1.85	20	
Nitrogen, Nitrate (As N)	29.55	0.500	10	19.57	99.8	80 - 120	29.48	0.251	20	
Nitrogen, Nitrite (As N)	10.91	0.500	10	0.9275	99.8	80 - 120	10.97	0.603	20	
Sulfate	115	2.50	50	54.06	122	80 - 120	113.7	1.16	20	S

MSD Sample ID: **HS23102009-01MSD** Units: **mg/L** Analysis Date: **04-Nov-2023 09:46**
Client ID: Run ID: **ICS-Integrion_450934** SeqNo: **7652509** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Bromide	2.307	0.100	2	0	115	80 - 120	2.317	0.411	20	
Chloride	10.85	0.500	10	0.408	104	80 - 120	10.91	0.607	20	
Fluoride	2.334	0.100	2	0.1123	111	80 - 120	2.322	0.503	20	
Nitrogen, Nitrate (As N)	2.197	0.100	2	0	110	80 - 120	2.195	0.0774	20	
Nitrogen, Nitrite (As N)	2.266	0.100	2	0.097	108	80 - 120	2.277	0.489	20	
Sulfate	11.17	0.500	10	0.8776	103	80 - 120	10.91	2.37	20	

The following samples were analyzed in this batch: HS23110221-01 HS23110221-02

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: R451063 (0) **Instrument: Balance1** **Method: TOTAL DISSOLVED SOLIDS BY SM2540C-2011**

MBLK Sample ID: **WMBLK-11062023** Units: **mg/L** Analysis Date: **06-Nov-2023 12:30**
Client ID: Run ID: **Balance1_451063** SeqNo: **7655822** 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-11062023** Units: **mg/L** Analysis Date: **06-Nov-2023 12:30**
Client ID: Run ID: **Balance1_451063** SeqNo: **7655821** 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)	1030	10.0	1000	0	103	85 - 115				

DUP Sample ID: **HS23110152-01DUP** Units: **mg/L** Analysis Date: **06-Nov-2023 12:30**
Client ID: Run ID: **Balance1_451063** SeqNo: **7655818** 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)	1205	10.0					1204	0.0664	20	

DUP Sample ID: **HS23110117-10DUP** Units: **mg/L** Analysis Date: **06-Nov-2023 12:30**
Client ID: Run ID: **Balance1_451063** SeqNo: **7655808** 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)	1144	10.0					1140	0.35	20	

The following samples were analyzed in this batch: HS23110221-01 HS23110221-02

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: R451685 (0) **Instrument: WetChem_HS** **Method: SPECIFIC CONDUCTANCE BY SM 2510B-2011**

MBLK Sample ID: **MBLK-R451685** Units: **umhos/cm @ 25.0 °C** Analysis Date: **13-Nov-2023 16:00**
Client ID: Run ID: **WetChem_HS_451685** SeqNo: **7671466** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductivity	U	5.00								

LCS Sample ID: **LCS-R451685** Units: **umhos/cm @ 25.0 °C** Analysis Date: **13-Nov-2023 16:00**
Client ID: Run ID: **WetChem_HS_451685** SeqNo: **7671465** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductivity	1289	5.00	1413	0	91.2	80 - 120				

DUP Sample ID: **HS23110659-01DUP** Units: **umhos/cm @ 25.0 °C** Analysis Date: **13-Nov-2023 16:00**
Client ID: Run ID: **WetChem_HS_451685** SeqNo: **7671467** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Specific Conductivity	2395	5.00					2392	0.125	20	

The following samples were analyzed in this batch: HS23110221-01 HS23110221-02

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: HS23110221

QC BATCH REPORT

Batch ID: R452135 (0) **Instrument:** UV-2450 **Method:** ORTHO PHOSPHATE (PO4) AS P BY E365.3-1978

MBLK Sample ID: **MBLK-R452135** Units: **mg/L** Analysis Date: **17-Nov-2023 14:35**
Client ID: Run ID: **UV-2450_452135** SeqNo: **7680781** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	U	0.0250								

LCS Sample ID: **LCS-R452135** Units: **mg/L** Analysis Date: **17-Nov-2023 14:35**
Client ID: Run ID: **UV-2450_452135** SeqNo: **7680780** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.256	0.0250	0.25	0	102	85 - 115				

MS Sample ID: **HS23110221-01MS** Units: **mg/L** Analysis Date: **17-Nov-2023 14:35**
Client ID: **Upstream** Run ID: **UV-2450_452135** SeqNo: **7680783** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.27	0.0250	0.25	0.048	88.8	80 - 120				

MSD Sample ID: **HS23110221-01MSD** Units: **mg/L** Analysis Date: **17-Nov-2023 14:35**
Client ID: **Upstream** Run ID: **UV-2450_452135** SeqNo: **7680782** PrepDate: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Phosphorus, Total Orthophosphate (As P)	0.271	0.0250	0.25	0.048	89.2	80 - 120	0.27	0.37	20	

The following samples were analyzed in this batch: HS23110221-01 HS23110221-02

Client: Colorado Oil and Gas Conservation Comission
Project: Prospect MSSU Inj Spill
WorkOrder: **HS23110221**

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	

CERTIFICATIONS,ACCREDITATIONS & LICENSES

Agency	Number	Expire Date
Arkansas	88-00356	27-Mar-2024
California	2919; 2024	30-Apr-2024
Dept of Defense	L23-358	31-May-2025
Florida	E87611-38	30-Jun-2024
Illinois	2000322023-11	30-Jun-2024
Kansas	E-10352 2023-2024	31-Jul-2024
Louisiana	03087 2023-2024	30-Jun-2024
Maryland	343; 2023-2024	30-Jun-2024
North Carolina	624-2023	31-Dec-2023
North Dakota	R-193 2023-2024	30-Apr-2024
Oklahoma	2023-140	31-Aug-2024
Texas	T104704231-23-31	30-Apr-2024
Utah	TX026932023-14	31-Jul-2024

Sample Receipt Checklist

Work Order ID: HS23110221 **Date/Time Received:** **03-Nov-2023 08:30**

Client Name: COGCC **Received by:** **Paresh M. Giga**

Completed By: */S/ Paresh M. Giga* (eSignature) 03-Nov-2023 12:48 (Date/Time) **Reviewed by:** */S/ Tyler Monroe* (eSignature) 03-Nov-2023 13:08 (Date/Time)

Matrices: **Water** Carrier 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):	1.7C/1.6C U/C	IR31	
Cooler(s)/Kit(s):	Blue		
Date/Time sample(s) sent to storage:	11/3/23 13:00		
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: Logged in per instructions TM.
NO3/NO2 & P-Ortho out of hold.
Proceed per TM

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

Corrective Action:

ALS Environmental

Chain of Custody Form

Page 1 of 1

HS23110221

olorado Oil and Gas Conservation Comissio

Prospect MSSU Inj Spill

ALS Project Manager:

Customer Information		Project Information	
PO Number	GAE PHAA 2021*056	Project Name	Prospect MSSU Inj Spill
Work Order	NA	Project Number	NA
Company Name	ECMC	Bill To Company	ECMC
Send Report To	Rick Allison	Invoice Attn.	Rick Allison
Address	1120 Lincoln Street Suite 801	Address	1120 Lincoln Street Suite 801
City/State/Zip	Denver CO 80203	City/State/Zip	Denver CO 80203
Phone	970-461-2970	Phone	970-461-2970
Fax	NA	Fax	NA
e-Mail Address		e-Mail Address	

A	pH, specific conductance, TDS, alkalinity (total, carb, bicarb)
B	anions - Br, Cl, F, SO4, NO3, NO2, P
C	cations/metals - Ca, Fe, Mg, Mn, K, Na, Ba, B, Se, Sr
D	BTEX, naphthalene, 1,2,3-trimethylbenzene, 1,2,4-trimethylbenzene
E	TPH (C6-C36)
F	
G	
H	
I	
J	

SHORT HOLDING TIME

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	UPSTREAM	10/31/23	1612	W	1,8	11	X	X	X	X	X						
2	OUTFALL BASIN	10/31/23	1658	W	1,8	11	X	X	X	X	X						
3																	
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s): Please Print & Sign: Rick Allison

Shipment Method: Drop off Lovelend

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

Results Due Date:

	Date:	Time:		
Relinquished by:	11/2/23	1145	Received by:	Karen Craven
Relinquished by:	11-2-23	1600	Received by (Laboratory):	11/3/23 08:30
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Blue

Notes: ANALYZE DISSOLVED METALS- LAB FILTER

Cooler Temp. NIC / 1.7°

QC Package: (Check Box Below)

- [x] Level II: Standard QC
- [ ] Level III: Std QC + Raw Data
- [ ] Level IV: SW846 CLP-Like
- [ ] Other: _____
- [ ] TRRP-Checklist
- [ ] TRRP Level IV

Preservative Key: 1-HCL 2-HNO3 3-H2SO4 4-NaOH 5-Na2S2O3 6-NaHSO4 7-Other 8-4 degrees C 9-5035 431

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

pH: 6.10