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Automated Report

Technical Report for

Civitas

ENSOCOWR: State Antelope 34-12-1XRLNB

09C2407111

SGS Job Number: DA76215

Sampling Date: 10/14/25

Report to:

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ATTN: Tanna Lyon

Total number of pages in report: **112**

Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Program and/or state specific certification programs as applicable unless noted in the narrative, comments or footnotes.

Eric Hoffman

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Certifications: CO (CO00049), ND (R-027), UT (NELAP CO00049), LA (LA150028), TX (T104704511), WY (8TMS-L) HI (CO00049), NJ (CO011), NV (CO00049), AK (CO00049), CA (3076), and NC (08701)

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Sample Summary

Civitas

Job No: DA76215

ENSOCOWR: State Antelope 34-12-1XRLNB
Project No: 09C2407111

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
DA76215-1	10/14/25	09:05	MB	10/14/25	SO	Soil	NATIVE-BG01@3'
DA76215-1A	10/14/25	09:05	MB	10/14/25	SO	Soil	NATIVE-BG01@3'
DA76215-1B	10/14/25	09:05	MB	10/14/25	SO	Soil	NATIVE-BG01@3'
DA76215-2	10/14/25	09:15	MB	10/14/25	SO	Soil	NATIVE-BG01@6'
DA76215-2A	10/14/25	09:15	MB	10/14/25	SO	Soil	NATIVE-BG01@6'
DA76215-2B	10/14/25	09:15	MB	10/14/25	SO	Soil	NATIVE-BG01@6'
DA76215-3	10/14/25	09:20	MB	10/14/25	SO	Soil	NATIVE-BG02@3'
DA76215-3A	10/14/25	09:20	MB	10/14/25	SO	Soil	NATIVE-BG02@3'
DA76215-3B	10/14/25	09:20	MB	10/14/25	SO	Soil	NATIVE-BG02@3'
DA76215-4	10/14/25	09:30	MB	10/14/25	SO	Soil	NATIVE-BG02@6'
DA76215-4A	10/14/25	09:30	MB	10/14/25	SO	Soil	NATIVE-BG02@6'
DA76215-4B	10/14/25	09:30	MB	10/14/25	SO	Soil	NATIVE-BG02@6'
DA76215-5	10/14/25	09:40	MB	10/14/25	SO	Soil	NATIVE-BG03@3'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Civitas

Job No: DA76215

ENSOCOWR: State Antelope 34-12-1XRLNB
Project No: 09C2407111

Sample Number	Collected Date	Time	By	Received	Matrix Code	Type	Client Sample ID
DA76215-5A	10/14/25	09:40	MB	10/14/25	SO	Soil	NATIVE-BG03@3'
DA76215-5B	10/14/25	09:40	MB	10/14/25	SO	Soil	NATIVE-BG03@3'
DA76215-6	10/14/25	09:55	MB	10/14/25	SO	Soil	NATIVE-BG03@6'
DA76215-6A	10/14/25	09:55	MB	10/14/25	SO	Soil	NATIVE-BG03@6'
DA76215-6B	10/14/25	09:55	MB	10/14/25	SO	Soil	NATIVE-BG03@6'
DA76215-7	10/14/25	09:58	MB	10/14/25	SO	Soil	NATIVE-BG04@3'
DA76215-7A	10/14/25	09:58	MB	10/14/25	SO	Soil	NATIVE-BG04@3'
DA76215-7B	10/14/25	09:58	MB	10/14/25	SO	Soil	NATIVE-BG04@3'
DA76215-8	10/14/25	10:10	MB	10/14/25	SO	Soil	NATIVE-BG04@6'
DA76215-8A	10/14/25	10:10	MB	10/14/25	SO	Soil	NATIVE-BG04@6'
DA76215-8B	10/14/25	10:10	MB	10/14/25	SO	Soil	NATIVE-BG04@6'
DA76215-9	10/14/25	10:15	MB	10/14/25	SO	Soil	NATIVE-BG05@3'
DA76215-9A	10/14/25	10:15	MB	10/14/25	SO	Soil	NATIVE-BG05@3'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Sample Summary
(continued)

Civitas

Job No: DA76215

ENSOCOWR: State Antelope 34-12-1XRLNB
Project No: 09C2407111

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
DA76215-9B	10/14/25	10:15	MB	10/14/25	SO	Soil	NATIVE-BG05@3'
DA76215-10	10/14/25	10:30	MB	10/14/25	SO	Soil	NATIVE-BG05@6'
DA76215-10A	10/14/25	10:30	MB	10/14/25	SO	Soil	NATIVE-BG05@6'
DA76215-10B	10/14/25	10:30	MB	10/14/25	SO	Soil	NATIVE-BG05@6'

Soil samples reported on a dry weight basis unless otherwise indicated on result page.

Summary of Hits

Job Number: DA76215
Account: Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB
Collected: 10/14/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA76215-1	**NATIVE-BG01@3'**					
Arsenic		2.1	0.18		mg/kg	SW846 6020B
Barium		45.0	1.8		mg/kg	SW846 6020B
Copper		2.5	1.8		mg/kg	SW846 6020B
Lead		3.7	0.45		mg/kg	SW846 6020B
Nickel		2.3	1.8		mg/kg	SW846 6020B
Zinc		12.4	9.1		mg/kg	SW846 6020B
pH		7.09			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.13	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA76215-1A	**NATIVE-BG01@3'**					
Calcium		69.4	6.0		mg/l	SW846 6010C
Magnesium		36.5	3.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.0951			ratio	USDA HANDBOOK 60
DA76215-1B	**NATIVE-BG01@3'**					
No hits reported in this sample.						
DA76215-2	**NATIVE-BG01@6'**					
Arsenic		1.7	0.21		mg/kg	SW846 6020B
Barium		29.0	2.1		mg/kg	SW846 6020B
Copper		2.1	2.1		mg/kg	SW846 6020B
Lead		3.0	0.51		mg/kg	SW846 6020B
Zinc		10.7	10		mg/kg	SW846 6020B
pH		7.04			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.089	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA76215-2A	**NATIVE-BG01@6'**					
Calcium		74.6	6.0		mg/l	SW846 6010C
Magnesium		40.6	3.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.0757			ratio	USDA HANDBOOK 60
DA76215-2B	**NATIVE-BG01@6'**					
No hits reported in this sample.						
DA76215-3	**NATIVE-BG02@3'**					
Arsenic		2.2	0.19		mg/kg	SW846 6020B
Barium		44.9	1.9		mg/kg	SW846 6020B

Summary of Hits

Job Number: DA76215
Account: Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB
Collected: 10/14/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Copper		2.2	1.9		mg/kg	SW846 6020B
Lead		3.8	0.47		mg/kg	SW846 6020B
pH		7.02			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.096	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA76215-3A	**NATIVE-BG02@3'**					
Calcium		205	6.0		mg/l	SW846 6010C
Magnesium		120	3.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.0568			ratio	USDA HANDBOOK 60
DA76215-3B	**NATIVE-BG02@3'**					
No hits reported in this sample.						
DA76215-4	**NATIVE-BG02@6'**					
Arsenic		2.2	0.20		mg/kg	SW846 6020B
Barium		46.6	2.0		mg/kg	SW846 6020B
Copper		2.1	2.0		mg/kg	SW846 6020B
Lead		4.3	0.50		mg/kg	SW846 6020B
pH		6.99			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.097	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA76215-4A	**NATIVE-BG02@6'**					
Calcium		72.8	6.0		mg/l	SW846 6010C
Magnesium		42.4	3.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.0943			ratio	USDA HANDBOOK 60
DA76215-4B	**NATIVE-BG02@6'**					
No hits reported in this sample.						
DA76215-5	**NATIVE-BG03@3'**					
Arsenic		2.3	0.26		mg/kg	SW846 6020B
Barium		23.2	2.6		mg/kg	SW846 6020B
Lead		3.1	0.65		mg/kg	SW846 6020B
pH		6.93			su	WREP-125,4E-SATPASTE
Specific Conductivity		1.3	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA76215-5A	**NATIVE-BG03@3'**					
Calcium		110	6.0		mg/l	SW846 6010C

Summary of Hits

Job Number: DA76215
Account: Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB
Collected: 10/14/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
Magnesium		28.2	3.0		mg/l	SW846 6010C
Sodium		8.92	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.196			ratio	USDA HANDBOOK 60
DA76215-5B	**NATIVE-BG03@3'**					
No hits reported in this sample.						
DA76215-6	**NATIVE-BG03@6'**					
Arsenic		1.7	0.21		mg/kg	SW846 6020B
Barium		32.1	2.1		mg/kg	SW846 6020B
Lead		3.1	0.53		mg/kg	SW846 6020B
pH		6.77			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.73	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA76215-6A	**NATIVE-BG03@6'**					
Calcium		86.8	6.0		mg/l	SW846 6010C
Magnesium		23.5	3.0		mg/l	SW846 6010C
Sodium		7.75	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.190			ratio	USDA HANDBOOK 60
DA76215-6B	**NATIVE-BG03@6'**					
No hits reported in this sample.						
DA76215-7	**NATIVE-BG04@3'**					
Arsenic		2.1	0.19		mg/kg	SW846 6020B
Barium		57.6	1.9		mg/kg	SW846 6020B
Copper		2.0	1.9		mg/kg	SW846 6020B
Lead		3.8	0.47		mg/kg	SW846 6020B
Zinc		10.4	9.4		mg/kg	SW846 6020B
pH		7.49			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.11	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA76215-7A	**NATIVE-BG04@3'**					
Calcium		30.1	6.0		mg/l	SW846 6010C
Magnesium		16.8	3.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.0804			ratio	USDA HANDBOOK 60

Summary of Hits

Job Number: DA76215
Account: Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB
Collected: 10/14/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA76215-7B	**NATIVE-BG04@3'**					
No hits reported in this sample.						
DA76215-8	**NATIVE-BG04@6'**					
Arsenic		1.9	0.21		mg/kg	SW846 6020B
Barium		51.2	2.1		mg/kg	SW846 6020B
Lead		3.8	0.53		mg/kg	SW846 6020B
pH		7.36			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.11	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA76215-8A	**NATIVE-BG04@6'**					
Calcium		17.0	6.0		mg/l	SW846 6010C
Magnesium		7.20	3.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.104			ratio	USDA HANDBOOK 60
DA76215-8B	**NATIVE-BG04@6'**					
No hits reported in this sample.						
DA76215-9	**NATIVE-BG05@3'**					
Arsenic		4.2	0.23		mg/kg	SW846 6020B
Barium		108	2.3		mg/kg	SW846 6020B
Copper		4.6	2.3		mg/kg	SW846 6020B
Lead		6.9	0.57		mg/kg	SW846 6020B
Nickel		6.2	2.3		mg/kg	SW846 6020B
Zinc		23.6	11		mg/kg	SW846 6020B
pH		7.79			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.28	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA76215-9A	**NATIVE-BG05@3'**					
Calcium		36.9	6.0		mg/l	SW846 6010C
Magnesium		7.40	3.0		mg/l	SW846 6010C
Sodium		8.39	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.329			ratio	USDA HANDBOOK 60
DA76215-9B	**NATIVE-BG05@3'**					
No hits reported in this sample.						

Summary of Hits

Job Number: DA76215
Account: Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB
Collected: 10/14/25

Lab Sample ID / Analyte	Client Sample ID	Result/ Qual	RL	MDL	Units	Method
DA76215-10	**NATIVE-BG05@6'**					
Arsenic		2.4	0.24		mg/kg	SW846 6020B
Barium		86.9	2.4		mg/kg	SW846 6020B
Lead		4.0	0.59		mg/kg	SW846 6020B
Zinc		12.6	12		mg/kg	SW846 6020B
pH		8.13			su	WREP-125,4E-SATPASTE
Specific Conductivity		0.23	0.0010		mmhos/cm	SM 2510B-2011 MOD
DA76215-10A	**NATIVE-BG05@6'**					
Calcium		29.7	6.0		mg/l	SW846 6010C
Magnesium		6.56	3.0		mg/l	SW846 6010C
Sodium		9.42	6.0		mg/l	SW846 6010C
Sodium Adsorption Ratio [a]		0.407			ratio	USDA HANDBOOK 60
DA76215-10B	**NATIVE-BG05@6'**					

No hits reported in this sample.

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	NATIVE-BG01@3'		
Lab Sample ID:	DA76215-1	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	96.9
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.1	0.18	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Barium	45.0	1.8	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.091	0.091	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Copper	2.5	1.8	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Lead	3.7	0.45	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Nickel	2.3	1.8	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.18	0.18	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.091	0.091	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Zinc	12.4	9.1	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19763
(2) Prep QC Batch: MP43655

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG01@3'		
Lab Sample ID:	DA76215-1	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	96.9
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	96.9		%	1	10/14/25	JL	SM2540G-2011 M
pH-saturated paste method							
pH	7.09		su	1	10/15/25 22:09	GC	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.13	0.0010	mmhos/cm	1	10/15/25 22:13	GC	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.41	0.41	mg/kg	1	11/12/25 16:36	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG01@3'		
Lab Sample ID:	DA76215-1A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	96.9
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	69.4	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	36.5	3.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	< 6.0	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19766
(2) Prep QC Batch: MP43669

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG01@3'		
Lab Sample ID:	DA76215-1A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	96.9
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.0951		ratio	1	10/23/25 14:56	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG01@3'		
Lab Sample ID:	DA76215-1B	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	96.9
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	10/16/25	10/22/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19758
(2) Prep QC Batch: MP43645

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG01@6'		
Lab Sample ID:	DA76215-2	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	98.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.7	0.21	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Barium	29.0	2.1	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.10	0.10	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Copper	2.1	2.1	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Lead	3.0	0.51	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Nickel	< 2.1	2.1	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.21	0.21	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.10	0.10	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Zinc	10.7	10	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19763
(2) Prep QC Batch: MP43655

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG01@6'		
Lab Sample ID:	DA76215-2	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	98.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	98.3		%	1	10/14/25	JL	SM2540G-2011 M
pH-saturated paste method							
pH	7.04		su	1	10/15/25 22:09	GC	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.089	0.0010	mmhos/cm	1	10/15/25 22:13	GC	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.40	0.40	mg/kg	1	11/12/25 16:44	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG01@6'		
Lab Sample ID:	DA76215-2A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	98.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	74.6	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	40.6	3.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	< 6.0	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19766
(2) Prep QC Batch: MP43669

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG01@6'		
Lab Sample ID:	DA76215-2A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	98.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.0757		ratio	1	10/23/25 14:59	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG01@6'		
Lab Sample ID:	DA76215-2B	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	98.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	10/16/25	10/22/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19758
(2) Prep QC Batch: MP43645

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG02@3'		
Lab Sample ID:	DA76215-3	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	96.2
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.2	0.19	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Barium	44.9	1.9	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.094	0.094	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Copper	2.2	1.9	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Lead	3.8	0.47	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Nickel	< 1.9	1.9	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.19	0.19	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.094	0.094	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Zinc	< 9.4	9.4	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19763
(2) Prep QC Batch: MP43655

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG02@3'		
Lab Sample ID:	DA76215-3	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	96.2
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	96.2		%	1	10/14/25	JL	SM2540G-2011 M
pH-saturated paste method							
pH	7.02		su	1	10/15/25 22:09	GC	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.096	0.0010	mmhos/cm	1	10/15/25 22:13	GC	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.42	0.42	mg/kg	1	11/12/25 16:59	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG02@3'		
Lab Sample ID:	DA76215-3A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	96.2
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	205	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	120	3.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	< 6.0	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19766
(2) Prep QC Batch: MP43669

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG02@3'		
Lab Sample ID:	DA76215-3A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	96.2
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.0568		ratio	1	10/23/25 15:02	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG02@3'		
Lab Sample ID:	DA76215-3B	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	96.2
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	10/16/25	10/22/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19758
(2) Prep QC Batch: MP43645

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG02@6'		
Lab Sample ID:	DA76215-4	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	98.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.2	0.20	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Barium	46.6	2.0	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.10	0.10	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Copper	2.1	2.0	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Lead	4.3	0.50	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Nickel	< 2.0	2.0	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.20	0.20	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.10	0.10	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Zinc	< 10	10	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19763
(2) Prep QC Batch: MP43655

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG02@6'		
Lab Sample ID:	DA76215-4	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	98.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	98.3		%	1	10/14/25	JL	SM2540G-2011 M
pH-saturated paste method							
pH	6.99		su	1	10/15/25 22:09	GC	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.097	0.0010	mmhos/cm	1	10/15/25 22:13	GC	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.41	0.41	mg/kg	1	11/12/25 17:23	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG02@6'		
Lab Sample ID:	DA76215-4A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	98.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	72.8	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	42.4	3.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	< 6.0	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19766
(2) Prep QC Batch: MP43669

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG02@6'		
Lab Sample ID:	DA76215-4A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	98.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.0943		ratio	1	10/23/25 15:05	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG02@6'		
Lab Sample ID:	DA76215-4B	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	98.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	10/16/25	10/22/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19758
(2) Prep QC Batch: MP43645

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG03@3'		
Lab Sample ID:	DA76215-5	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	79.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.3	0.26	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Barium	23.2	2.6	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.13	0.13	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Copper	< 2.6	2.6	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Lead	3.1	0.65	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Nickel	< 2.6	2.6	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.26	0.26	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.13	0.13	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Zinc	< 13	13	mg/kg	20	10/15/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19763
(2) Prep QC Batch: MP43655

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	NATIVE-BG03@3'		
Lab Sample ID:	DA76215-5	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	79.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	79.3		%	1	10/14/25	JL	SM2540G-2011 M
pH-saturated paste method							
pH	6.93		su	1	10/15/25 22:09	GC	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	1.3	0.0010	mmhos/cm	1	10/15/25 22:13	GC	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.49	0.49	mg/kg	1	11/10/25 20:21	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

SGS North America Inc.

Report of Analysis

Client Sample ID:	NATIVE-BG03@3'		
Lab Sample ID:	DA76215-5A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	79.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	110	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	28.2	3.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	8.92	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19766
(2) Prep QC Batch: MP43669

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG03@3'		
Lab Sample ID:	DA76215-5A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	79.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.196		ratio	1	10/23/25 15:08	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG03@3'		
Lab Sample ID:	DA76215-5B	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	79.3
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	10/16/25	10/23/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19758
(2) Prep QC Batch: MP43645

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG03@6'		
Lab Sample ID:	DA76215-6	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	97.7
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.7	0.21	mg/kg	20	10/15/25	10/23/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Barium	32.1	2.1	mg/kg	20	10/15/25	10/23/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.11	0.11	mg/kg	20	10/15/25	10/23/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Copper	< 2.1	2.1	mg/kg	20	10/15/25	10/23/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Lead	3.1	0.53	mg/kg	20	10/15/25	10/23/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Nickel	< 2.1	2.1	mg/kg	20	10/15/25	10/23/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.21	0.21	mg/kg	20	10/15/25	10/23/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.11	0.11	mg/kg	20	10/15/25	10/23/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Zinc	< 11	11	mg/kg	20	10/15/25	10/23/25	CDL	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19763
(2) Prep QC Batch: MP43655

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG03@6'		
Lab Sample ID:	DA76215-6	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	97.7
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	97.7		%	1	10/14/25	JL	SM2540G-2011 M
pH-saturated paste method							
pH	6.77		su	1	10/15/25 22:09	GC	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.73	0.0010	mmhos/cm	1	10/15/25 22:13	GC	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.40	0.40	mg/kg	1	11/10/25 20:53	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG03@6'		
Lab Sample ID:	DA76215-6A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	97.7
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	86.8	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	23.5	3.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	7.75	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19766
(2) Prep QC Batch: MP43669

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG03@6'		
Lab Sample ID:	DA76215-6A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	97.7
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.190		ratio	1	10/23/25 15:11	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG03@6'		
Lab Sample ID:	DA76215-6B	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	97.7
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	10/16/25	10/22/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19758
(2) Prep QC Batch: MP43645

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG04@3'		
Lab Sample ID:	DA76215-7	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	92.6
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.1	0.19	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Barium	57.6	1.9	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.094	0.094	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Copper	2.0	1.9	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Lead	3.8	0.47	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Nickel	< 1.9	1.9	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.19	0.19	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.094	0.094	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Zinc	10.4	9.4	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19763
(2) Prep QC Batch: MP43657

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG04@3'		
Lab Sample ID:	DA76215-7	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	92.6
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	92.6		%	1	10/14/25	JL	SM2540G-2011 M
pH-saturated paste method							
pH	7.49		su	1	10/15/25 22:09	GC	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.11	0.0010	mmhos/cm	1	10/15/25 22:13	GC	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.44	0.44	mg/kg	1	11/10/25 21:08	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG04@3'		
Lab Sample ID:	DA76215-7A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	92.6
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	30.1	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	16.8	3.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	< 6.0	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19766
(2) Prep QC Batch: MP43669

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG04@3'		
Lab Sample ID:	DA76215-7A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	92.6
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.0804		ratio	1	10/23/25 15:21	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG04@3'		
Lab Sample ID:	DA76215-7B	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	92.6
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	10/17/25	10/22/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19758
(2) Prep QC Batch: MP43644

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG04@6'		
Lab Sample ID:	DA76215-8	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	91.5
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	1.9	0.21	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Barium	51.2	2.1	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.11	0.11	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Copper	< 2.1	2.1	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Lead	3.8	0.53	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Nickel	< 2.1	2.1	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.21	0.21	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.11	0.11	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Zinc	< 11	11	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19763
(2) Prep QC Batch: MP43657

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG04@6'		
Lab Sample ID:	DA76215-8	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	91.5
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	91.5		%	1	10/14/25	JL	SM2540G-2011 M
pH-saturated paste method							
pH	7.36		su	1	10/15/25 22:09	GC	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.11	0.0010	mmhos/cm	1	10/15/25 22:13	GC	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.45	0.45	mg/kg	1	11/10/25 21:24	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG04@6'		
Lab Sample ID:	DA76215-8A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	91.5
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	17.0	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	7.20	3.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	< 6.0	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19766
(2) Prep QC Batch: MP43669

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG04@6'		
Lab Sample ID:	DA76215-8A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	91.5
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.104		ratio	1	10/23/25 15:24	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG04@6'		
Lab Sample ID:	DA76215-8B	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	91.5
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	10/17/25	10/22/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19758
(2) Prep QC Batch: MP43644

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG05@3'		
Lab Sample ID:	DA76215-9	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	73.8
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	4.2	0.23	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Barium	108	2.3	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.11	0.11	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Copper	4.6	2.3	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Lead	6.9	0.57	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Nickel	6.2	2.3	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.23	0.23	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.11	0.11	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Zinc	23.6	11	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19763
(2) Prep QC Batch: MP43657

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG05@3'		
Lab Sample ID:	DA76215-9	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	73.8
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	73.8		%	1	10/14/25	JL	SM2540G-2011 M
pH-saturated paste method							
pH	7.79		su	1	10/15/25 22:09	GC	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.28	0.0010	mmhos/cm	1	10/15/25 22:13	GC	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.53	0.53	mg/kg	1	11/10/25 21:40	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG05@3'		
Lab Sample ID:	DA76215-9A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	73.8
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	36.9	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	7.40	3.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	8.39	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19766
(2) Prep QC Batch: MP43669

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG05@3'		
Lab Sample ID:	DA76215-9A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	73.8
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.329		ratio	1	10/23/25 15:27	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG05@3'		
Lab Sample ID:	DA76215-9B	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	73.8
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	10/17/25	10/22/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19758
(2) Prep QC Batch: MP43644

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG05@6'		
Lab Sample ID:	DA76215-10	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	77.2
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Arsenic	2.4	0.24	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Barium	86.9	2.4	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Cadmium	< 0.12	0.12	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Copper	< 2.4	2.4	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Lead	4.0	0.59	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Nickel	< 2.4	2.4	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Selenium	< 0.24	0.24	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Silver	< 0.12	0.12	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]
Zinc	12.6	12	mg/kg	20	10/16/25	10/24/25	CDL	SW846 6020B [1]	SW846 3050B [2]

(1) Instrument QC Batch: MA19763
(2) Prep QC Batch: MP43657

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG05@6'		
Lab Sample ID:	DA76215-10	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	77.2
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
%solids							
Solids, Percent	77.2		%	1	10/14/25	JL	SM2540G-2011 M
pH-saturated paste method							
pH	8.13		su	1	10/15/25 22:09	GC	WREP-125,4E-SATPASTE
prep: DEPT.OF AG, BOOK N9							
Specific Conductivity	0.23	0.0010	mmhos/cm	1	10/15/25 22:13	GC	SM 2510B-2011 MOD
Chromium, Hexavalent [a]	< 0.51	0.51	mg/kg	1	11/10/25 21:56	ANJ	SW846 3060A/7199

(a) Analysis performed at SGS Dayton, NJ.

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG05@6'		
Lab Sample ID:	DA76215-10A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	77.2
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

SAR Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Calcium	29.7	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Magnesium	6.56	3.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]
Sodium	9.42	6.0	mg/l	1	10/15/25	10/23/25	BR	SW846 6010C [1]	USDA HANDBOOK 60 [2]

(1) Instrument QC Batch: MA19766
(2) Prep QC Batch: MP43669

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG05@6'		
Lab Sample ID:	DA76215-10A	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	77.2
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

General Chemistry

Analyte	Result	RL	Units	DF	Analyzed	By	Method
Sodium Adsorption Ratio [a]	0.407		ratio	1	10/23/25 15:30	BR	USDA HANDBOOK 60

(a) Calculated as: (Na meq/L) / sqrt [(Ca meq/L)+ (Mg meq/L)/2]

RL = Reporting Limit

Report of Analysis

Client Sample ID:	NATIVE-BG05@6'		
Lab Sample ID:	DA76215-10B	**Date Sampled:**	10/14/25
Matrix:	SO - Soil	**Date Received:**	10/14/25
		Percent Solids:	77.2
Project:	ENSOCOWR: State Antelope 34-12-1XRLNB		

Hot Water Soluble Boron Metals Analysis

Analyte	Result	RL	Units	DF	Prep	Analyzed	By	Method	Prep Method
Boron	< 0.25	0.25	mg/l	1	10/17/25	10/22/25	BR	SW846 6010C [1]	HWS-B [2]

(1) Instrument QC Batch: MA19758
(2) Prep QC Batch: MP43644

RL = Reporting Limit

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa

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Bottle Order Control #:
FED-EX Tracking #:
SGS Quote #:
SGS Job # DA 76215

Client / Reporting Information

Company: Ensolum
Street: 11049 W. 44th Ave.
City, State ZIP: Wheat Ridge, CO 80033
Project Contact: Tanna Lyon
Phone: 720 363 6116
Email: tlyon@ensolum.com
Sampler(s) Name(s): Max Buffy

Project Information

Project Name: State Antelope 34-12-1XRLNB
Street:
City, State ZIP:
Project #: 09C2407111
Client Purchase Order #:
Project Manager:

Billing Information (If different from Report to)

Company: Civitas - CO
Street Address: 650 Southgate Dr.
City, State ZIP: Windsor CO 80550
Attention: Seth Robinson

Requested Analysis (see TEST CODE sheet)

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Water
SW - Surface Water
SO - Soil
SL - Sludge
SED-Sediment
OI - Oil
LIQ - Other Liquid
AIR - Air
SOL - Other Solid
WP - Wipe
FB - Field Blank
EB-Equipment Blank
RB - Rinse Blank
TB - Trip Blank

	Field ID / Point of Collection	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: NONE	HCl	NaOH	HNO3	H2SO4	DI Water	MEOH	ENCORE	Na2S2O3	NaZSO3	pH, EC, SAR, Boron	915-1 Metals	LAB USE ONLY
01	Native-BG01 0.3'	10/14	905	MB	SO	2	X										X	X	
02	Native-BG01 0.6'		915																
03	Native-BG02 0.3'		920																
04	Native-BG02 0.6'		930																
05	Native-BG03 0.3'		940																
06	Native-BG03 0.6'		955																
07	Native-BG04 0.3'		958																
08	Native-BG04 0.6'		1010																
09	Native-BG05 0.3'		1015																
10	Native-BG05 0.6'	↓	1030	↓	↓	↓	↓										↓	↓	

Turnaround Time (Business days)

- [X] Standard 10 Business Days
- [ ] 6 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENC

Special Reporting Instructions
- [ ] Report in PPB
- [ ] Report in PPM
- [ ] Report MDLs

Emergency & Rush T/A data available via LabLink. RUSH TAT approval needed.

Data Deliverable Information

- [ ] Commercial "A" (Level 1, Results Only)
- [ ] Commercial "B" (Level 2, Results + QC Summary)
- [ ] COMMBN (Results/QC/Narrative)
- [ ] COMMBN+ (Results/QC/Narrative (+ chromatograms))
- [ ] REDT2
- [ ] FULT1
- [ ] EDD Format

Comments / Special Instructions

Sample Custody must be documented below each time samples change possession, including courier delivery.

	Relinquished by Sampler	Date/Time	Received By	Relinquished By	Date/Time	Received By
1	M. Buffy	10/14/25 1310		2		2
3				4		4

Custody Seal # Intact [ ] Not Intact [ ] Absent [ ]
Preserved where applicable [ ] Cooler Temp. °C: 2.6 Therm. ID: IR4 On Ice [X]

http://www.sgs.com/en/terms-and-conditions

DA76215: Chain of Custody
Page 1 of 2

SGS Sample Receipt Summary

Job Number: da76215 **Client:** ENSOLUM **Project:** STATE ANTELOPE 34-12-1XRLNB

Date / Time Received: 10/14/2025 1:10:00 PM **Delivery Method:** hd **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.6);

Cooler Temps (Corrected) °C: Cooler 1: (2.6);

Cooler Informatio	Y	or	N
1. Custody Seals Present:	☑		☐
2. Custody Seals Intact:	☑		☐
3. Temp criteria achieved:	☑		☐
4. Cooler temp verification:	IR Gun		
5. Cooler media:	Ice (Bag)		

Trip Blank Information	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☐	☑
2. Trip Blank listed on COC:	☐		☐	☑

	W	or	S	N/A
3. Type of TB Received	☐		☐	☑

Sample Information	Y	or	N	N/A
1. Sample labels present on bottles:	☑		☐	
2. Samples presented properly	☑		☐	
3. Suffiient volume/containers recv'd for analysis	☑		☐	
4. Condition of sample:	Intact			
5. Sample recv'd within HT	☑		☐	
6. Dates/Times/IDs on COC match sample label	☑		☐	
7. VOCs have headspace	☐		☐	☑
8. Bottles received for unspecified tests	☐		☑	
9. Compositing instructions clear	☐		☐	☑
10. Voa Soil Kits/Jars received past 48hrs?	☐		☐	☑
11. % Solids Jar Received?	☐		☑	☐
12. Residual Chlorine Present?	☐		☐	☑

Misc Information

Number of Encores: 25 Gram 5 Gram

Test Strip Lot #s: pH 0-3: _____ pH 10-12: _____

Residual Chlorine Test Strip Lot _____

Number of Lab Filtered Metals

Other: (Specify) _____ _____

Comments

SM001
Rev. Date 05/04/17

Technician: DONM Date: 10/14/2025 1:19:15 PM Reviewer: _____ Date: _____

DA76215: Chain of Custody
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Metals Analysis

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Matrix Spike and Duplicate Summaries
- Blank Spike and Lab Control Sample Summaries
- Serial Dilution Summaries

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43644
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/17/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	500	9.9	75		
Antimony	150	30	34		
Arsenic	130	11	23		
Barium	50	.95	6.5		
Beryllium	50	.5	6.5		
Boron	250	6.3	32	-1.5	<250
Cadmium	50	1.1	6.5		
Calcium	2000	28	250		
Chromium	50	3.4	6.5		
Cobalt	25	4.1	3.2		
Copper	50	2.5	6.5		
Iron	350	9.3	60		
Lead	250	21	32		
Lithium	25	10	6.5		
Magnesium	1000	35	130		
Manganese	25	.85	3.2		
Molybdenum	50	13	14		
Nickel	150	5.7	19		
Phosphorus	500	58	80		
Potassium	5000	180	630		
Selenium	250	46	110		
Silicon	1000	210	750		
Silver	150	2.8	19		
Sodium	2000	43	250		
Strontium	25	.5	3.2		
Thallium	50	30	22		
Tin	300	17	260		
Titanium	50	2.2	6.5		
Uranium	250	57	43		
Vanadium	50	5.2	6.5		
Zinc	150	3.4	19		

Associated samples MP43644: DA76215-7B, DA76215-8B, DA76215-9B, DA76215-10B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43644
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/17/25

Metal	RL	IDL	MDL	MB raw	final

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43644
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/17/25 10/17/25

Metal	DA76230-2B Original	DUP	RPD	QC Limits	DA76230-2B Original	MS	Spikelot ICPALL6	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron	141	142	0.7	0-20	141	10400	10000	102.6	75-125
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Lithium									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Phosphorus									
Potassium									
Selenium									
Silicon									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Uranium									
Vanadium									
Zinc									

Associated samples MP43644: DA76215-7B, DA76215-8B, DA76215-9B, DA76215-10B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43644
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/17/25 10/17/25

Metal	DA76230-2B Original DUP	RPD	QC Limits	DA76230-2B Original MS	Spikelot ICPALL6	% Rec	QC Limits

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43644
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/17/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	9350	10000	93.5	80-120
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP43644: DA76215-7B, DA76215-8B, DA76215-9B, DA76215-10B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43644
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/17/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43644
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/17/25

Metal	DA76230-2B Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	28.2	46.8	66.0 (a)	0-10
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP43644: DA76215-7B, DA76215-8B, DA76215-9B, DA76215-10B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43644 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/17/25

	DA76230-2B		QC
Metal	Original SDL 1:5	%DIF	Limits

(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43645
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/16/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	500	9.9	75		
Antimony	150	30	34		
Arsenic	130	11	23		
Barium	50	.95	6.5		
Beryllium	50	.5	6.5		
Boron	250	6.3	32	-3.0	<250
Cadmium	50	1.1	6.5		
Calcium	2000	28	250		
Chromium	50	3.4	6.5		
Cobalt	25	4.1	3.2		
Copper	50	2.5	6.5		
Iron	350	9.3	60		
Lead	250	21	32		
Lithium	25	10	6.5		
Magnesium	1000	35	130		
Manganese	25	.85	3.2		
Molybdenum	50	13	14		
Nickel	150	5.7	19		
Phosphorus	500	58	80		
Potassium	5000	180	630		
Selenium	250	46	110		
Silicon	1000	210	750		
Silver	150	2.8	19		
Sodium	2000	43	250		
Strontium	25	.5	3.2		
Thallium	50	30	22		
Tin	300	17	260		
Titanium	50	2.2	6.5		
Uranium	250	57	43		
Vanadium	50	5.2	6.5		
Zinc	150	3.4	19		

Associated samples MP43645: DA76215-1B, DA76215-2B, DA76215-3B, DA76215-4B, DA76215-5B, DA76215-6B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43645
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/16/25

Metal	RL	IDL	MDL	MB raw	final

(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43645
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date:			10/16/25					10/16/25	
Metal	DA76215-6B Original	DUP	RPD	QC Limits	DA76215-6B Original	MS	Spikelot ICPALL6	% Rec	QC Limits
Aluminum									
Antimony									
Arsenic									
Barium									
Beryllium									
Boron	68.0	80.5	16.8	0-20	68.0	10300	10000	102.3	75-125
Cadmium									
Calcium									
Chromium									
Cobalt									
Copper									
Iron									
Lead									
Lithium									
Magnesium									
Manganese									
Molybdenum									
Nickel									
Phosphorus									
Potassium									
Selenium									
Silicon									
Silver									
Sodium									
Strontium									
Thallium									
Tin									
Titanium									
Uranium									
Vanadium									
Zinc									

Associated samples MP43645: DA76215-1B, DA76215-2B, DA76215-3B, DA76215-4B, DA76215-5B, DA76215-6B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43645
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/16/25 10/16/25

Metal	DA76215-6B Original DUP	RPD	QC Limits	DA76215-6B Original MS	Spikelot ICPALL6	% Rec	QC Limits

(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43645
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/16/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	9670	10000	96.7	80-120
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP43645: DA76215-1B, DA76215-2B, DA76215-3B, DA76215-4B, DA76215-5B, DA76215-6B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43645
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/16/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits

(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43645 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/16/25

Metal	DA76215-6B Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron	13.6	12.9	5.1	0-10
Cadmium				
Calcium				
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium				
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP43645: DA76215-1B, DA76215-2B, DA76215-3B, DA76215-4B, DA76215-5B, DA76215-6B

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43645
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/16/25

Metal	DA76215-6B Original SDL 1:5	%DIF	QC Limits

(anr) Analyte not requested

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43655
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 10/15/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.1	5		
Antimony	0.40	.0027	.05		
Arsenic	0.20	.004	.05	0.037	<0.20
Barium	2.0	.081	.24	0.021	<2.0
Beryllium	0.20	.015	.04		
Boron	40	8.2	10		
Cadmium	0.10	.024	.04	0.0046	<0.10
Calcium	400	.13	30		
Chromium	2.0	.038	.6		
Cobalt	0.20	.0016	.025		
Copper	2.0	.23	.25	0.017	<2.0
Iron	20	.069	15		
Lead	0.50	.0078	.2	0.0020	<0.50
Magnesium	100	.12	10		
Manganese	1.0	.0099	.2		
Molybdenum	1.0	.0029	.27		
Nickel	2.0	.029	.2	-0.98	<2.0
Phosphorus	60	21	25		
Potassium	200	1.7	25		
Selenium	0.20	.0096	.05	0.0039	<0.20
Silver	0.10	.001	.03	-0.00045	<0.10
Sodium	500	1.2	30		
Strontium	20	.0047	1		
Thallium	0.20	.0028	.04		
Tin	10	.027	4		
Titanium	2.0	.0065	.3		
Uranium	0.20	.001	.1		
Vanadium	1.0	.035	.2		
Zinc	10	.1	1	0.15	<10

Associated samples MP43655: DA76215-1, DA76215-2, DA76215-3, DA76215-4, DA76215-5, DA76215-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43655
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 10/15/25

Metal	DA76215-6 Original	MS	Spikelot ICPMS6	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	1.7	97.1	100	95.1	75-125
Barium	32.1	243	201	105.1	75-125
Beryllium					
Boron					
Cadmium	0.041	49.8	50.2	99.2	75-125
Calcium					
Chromium					
Cobalt					
Copper	2.0	49.1	50.2	93.9	75-125
Iron					
Lead	3.1	107	100	103.5	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel	1.2	48.5	50.2	94.3	75-125
Phosphorus					
Potassium					
Selenium	0.079	92.9	100	92.5	75-125
Silver	0.0070	19.3	20.1	96.1	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	10.3	57.2	50.2	93.5	75-125

Associated samples MP43655: DA76215-1, DA76215-2, DA76215-3, DA76215-4, DA76215-5, DA76215-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43655
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 10/15/25

Metal	DA76215-6 Original	MSD	Spikelot ICPMS6	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	1.7	106	109	95.8	8.8	20
Barium	32.1	291	218	118.9	18.0	20
Beryllium						
Boron						
Cadmium	0.041	53.5	54.4	98.2	7.2	20
Calcium						
Chromium						
Cobalt						
Copper	2.0	54.5	54.4	96.4	10.4	20
Iron						
Lead	3.1	124	109	111.0	14.7	20
Magnesium						
Manganese						
Molybdenum						
Nickel	1.2	53.8	54.4	96.6	10.4	20
Phosphorus						
Potassium						
Selenium	0.079	95.5	109	87.6	2.8	20
Silver	0.0070	20.8	21.8	95.5	7.5	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	10.3	62.6	54.4	96.1	9.0	20

Associated samples MP43655: DA76215-1, DA76215-2, DA76215-3, DA76215-4, DA76215-5, DA76215-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43655
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 10/15/25

Metal	BSP Result	Spikelot ICPMS6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	102	100	102.0	80-120
Barium	208	200	104.0	80-120
Beryllium				
Boron				
Cadmium	49.5	50	99.0	80-120
Calcium				
Chromium				
Cobalt				
Copper	50.3	50	100.6	80-120
Iron				
Lead	103	100	103.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	49.0	50	98.0	80-120
Phosphorus				
Potassium				
Selenium	96.4	100	96.4	80-120
Silver	19.3	20	96.5	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	49.6	50	99.2	80-120

Associated samples MP43655: DA76215-1, DA76215-2, DA76215-3, DA76215-4, DA76215-5, DA76215-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43655
Matrix Type: SOLID

Methods: SW846 6020B
Units: ug/l

Prep Date: 10/15/25

Metal	DA76215-6 Original	SDL 20:100	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	32.2	35.7	10.9	0-20
Barium	609	629	3.3	0-20
Beryllium				
Boron				
Cadmium	0.776	0.00	100.0(a)	0-20
Calcium				
Chromium				
Cobalt				
Copper	37.8	40.5	6.9	0-20
Iron				
Lead	58.0	59.6	2.8	0-20
Magnesium				
Manganese				
Molybdenum				
Nickel	23.5	0.00	100.0(a)	0-20
Phosphorus				
Potassium				
Selenium	1.49	1.76	18.0	0-20
Silver	0.132	0.00	100.0(a)	0-20
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	196	207	5.5	0-20

Associated samples MP43655: DA76215-1, DA76215-2, DA76215-3, DA76215-4, DA76215-5, DA76215-6

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43657 Methods: SW846 6020B
Matrix Type: SOLID Units: mg/kg

Prep Date: 10/16/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	50	.1	5		
Antimony	0.40	.0027	.05		
Arsenic	0.20	.004	.05	0.049	<0.20
Barium	2.0	.081	.24	0.031	<2.0
Beryllium	0.20	.015	.04		
Boron	40	8.2	10		
Cadmium	0.10	.024	.04	0.0038	<0.10
Calcium	400	.13	30		
Chromium	2.0	.038	.6		
Cobalt	0.20	.0016	.025		
Copper	2.0	.23	.25	0.027	<2.0
Iron	20	.069	15		
Lead	0.50	.0078	.2	0.020	<0.50
Magnesium	100	.12	10		
Manganese	1.0	.0099	.2		
Molybdenum	1.0	.0029	.27		
Nickel	2.0	.029	.2	-1.0	<2.0
Phosphorus	60	21	25		
Potassium	200	1.7	25		
Selenium	0.20	.0096	.05	0.0066	<0.20
Silver	0.10	.001	.03	0.0010	<0.10
Sodium	500	1.2	30		
Strontium	20	.0047	1		
Thallium	0.20	.0028	.04		
Tin	10	.027	4		
Titanium	2.0	.0065	.3		
Uranium	0.20	.001	.1		
Vanadium	1.0	.035	.2		
Zinc	10	.1	1	0.20	<10

Associated samples MP43657: DA76215-7, DA76215-8, DA76215-9, DA76215-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43657
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 10/16/25

Metal	DA76230-2 Original	MS	Spikelot ICPMS6	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic	4.7	101	105	92.1	75-125
Barium	17.5	259	209	115.5	75-125
Beryllium					
Boron					
Cadmium	0.067	50.9	52.3	97.3	75-125
Calcium					
Chromium					
Cobalt					
Copper	3.1	49.9	52.3	89.6	75-125
Iron					
Lead	6.2	114	105	103.1	75-125
Magnesium					
Manganese					
Molybdenum					
Nickel	6.2	53.8	52.3	91.1	75-125
Phosphorus					
Potassium					
Selenium	0.30	93.4	105	89.1	75-125
Silver	0.027	19.6	20.9	93.6	75-125
Sodium					
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc	28.2	78.0	52.3	95.3	75-125

Associated samples MP43657: DA76215-7, DA76215-8, DA76215-9, DA76215-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43657 Methods: SW846 6020B
Matrix Type: SOLID Units: mg/kg

Prep Date: 10/16/25

Metal	DA76230-2 Original	MSD	Spikelot ICPMS6	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic	4.7	120	120	95.9	17.2	20
Barium	17.5	270	240	105.0	4.2	20
Beryllium						
Boron						
Cadmium	0.067	57.8	60.1	96.1	12.7	20
Calcium						
Chromium						
Cobalt						
Copper	3.1	58.5	60.1	92.2	15.9	20
Iron						
Lead	6.2	134	120	106.3	16.1	20
Magnesium						
Manganese						
Molybdenum						
Nickel	6.2	59.7	60.1	89.0	10.4	20
Phosphorus						
Potassium						
Selenium	0.30	104	120	86.3	10.7	20
Silver	0.027	22.3	24	92.7	12.9	20
Sodium						
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc	28.2	94.6	60.1	110.5	19.2	20

Associated samples MP43657: DA76215-7, DA76215-8, DA76215-9, DA76215-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43657
Matrix Type: SOLID

Methods: SW846 6020B
Units: mg/kg

Prep Date: 10/16/25

Metal	BSP Result	Spikelot ICPMS6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic	100	100	100.0	80-120
Barium	207	200	103.5	80-120
Beryllium				
Boron				
Cadmium	47.8	50	95.6	80-120
Calcium				
Chromium				
Cobalt				
Copper	49.0	50	98.0	80-120
Iron				
Lead	100	100	100.0	80-120
Magnesium				
Manganese				
Molybdenum				
Nickel	48.0	50	96.0	80-120
Phosphorus				
Potassium				
Selenium	89.4	100	89.4	80-120
Silver	18.4	20	92.0	80-120
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	48.5	50	97.0	80-120

Associated samples MP43657: DA76215-7, DA76215-8, DA76215-9, DA76215-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43657
Matrix Type: SOLID

Methods: SW846 6020B
Units: ug/l

Prep Date: 10/16/25

Metal	DA76230-2 Original	SDL 20:100	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic	82.2	89.9	9.4	0-20
Barium	303	307	1.3	0-20
Beryllium				
Boron				
Cadmium	1.16	0.00	100.0(a)	0-20
Calcium				
Chromium				
Cobalt				
Copper	54.1	59.9	10.8	0-20
Iron				
Lead	108	108	0.6	0-20
Magnesium				
Manganese				
Molybdenum				
Nickel	107	39.6	63.0*(b)	0-20
Phosphorus				
Potassium				
Selenium	5.18	5.88	13.5	0-20
Silver	0.460	0.379	17.6	0-20
Sodium				
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc	488	551	12.9	0-20

Associated samples MP43657: DA76215-7, DA76215-8, DA76215-9, DA76215-10

Results < IDL are shown as zero for calculation purposes
(*) Outside of QC limits
(anr) Analyte not requested
(a) Percent difference acceptable due to low initial sample concentration (< 50 times IDL).
(b) Serial dilution indicates possible matrix interference.

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43669
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/15/25

Metal	RL	IDL	MDL	MB raw	final
Aluminum	1500	690	230		
Antimony	450	210	100		
Arsenic	380	330	69		
Barium	150	4.5	20		
Beryllium	150	15	20		
Boron	750	50	95		
Cadmium	150	29	20		
Calcium	6000	99	750	-350	<6000
Chromium	150	17	20		
Cobalt	75	41	9.5		
Copper	150	69	20		
Iron	1100	130	180		
Lead	750	200	95		
Lithium	75	9	20		
Magnesium	3000	740	380	-140	<3000
Manganese	75	7.5	9.5		
Molybdenum	150	130	42		
Nickel	450	93	57		
Phosphorus	1500	1400	240		
Potassium	15000	1300	1900		
Selenium	750	450	320		
Silicon	3000	620	2300		
Silver	450	9	57		
Sodium	6000	190	750	153	<6000
Strontium	75	1.5	9.5		
Thallium	150	260	65		
Tin	900	620	770		
Titanium	150	7.5	20		
Uranium	750	59	130		
Vanadium	150	14	20		
Zinc	450	140	57		

Associated samples MP43669: DA76215-1A, DA76215-2A, DA76215-3A, DA76215-4A, DA76215-5A, DA76215-6A, DA76215-7A, DA76215-8A, DA76215-9A, DA76215-10A

Results < IDL are shown as zero for calculation purposes

BLANK RESULTS SUMMARY
Part 2 - Method Blanks

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43669
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/15/25

Metal	RL	IDL	MDL	MB raw	final

(*) Outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43669
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/15/25

Metal	DA76196-10A Original	MS	Spikelot ICPALL6	% Rec	QC Limits
Aluminum					
Antimony					
Arsenic					
Barium					
Beryllium					
Boron					
Cadmium					
Calcium	174000	561000	375000	103.2	75-125
Chromium					
Cobalt					
Copper					
Iron					
Lead					
Lithium					
Magnesium	50900	441000	375000	104.0	75-125
Manganese					
Molybdenum					
Nickel					
Phosphorus					
Potassium					
Selenium					
Silicon					
Silver					
Sodium	63000	451000	375000	103.5	75-125
Strontium					
Thallium					
Tin					
Titanium					
Uranium					
Vanadium					
Zinc					

Associated samples MP43669: DA76215-1A, DA76215-2A, DA76215-3A, DA76215-4A, DA76215-5A, DA76215-6A, DA76215-7A, DA76215-8A, DA76215-9A, DA76215-10A

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43669 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/15/25

Metal	DA76196-10A Original MS	Spikelot ICPALL6	% Rec	QC Limits

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43669 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/15/25

Metal	DA76196-10A Original	MSD	Spikelot ICPALL6	% Rec	MSD RPD	QC Limit
Aluminum						
Antimony						
Arsenic						
Barium						
Beryllium						
Boron						
Cadmium						
Calcium	174000	564000	375000	104.0	0.5	20
Chromium						
Cobalt						
Copper						
Iron						
Lead						
Lithium						
Magnesium	50900	442000	375000	104.3	0.2	20
Manganese						
Molybdenum						
Nickel						
Phosphorus						
Potassium						
Selenium						
Silicon						
Silver						
Sodium	63000	469000	375000	108.3	3.9	20
Strontium						
Thallium						
Tin						
Titanium						
Uranium						
Vanadium						
Zinc						

Associated samples MP43669: DA76215-1A, DA76215-2A, DA76215-3A, DA76215-4A, DA76215-5A, DA76215-6A, DA76215-7A, DA76215-8A, DA76215-9A, DA76215-10A

Results < IDL are shown as zero for calculation purposes

MATRIX SPIKE AND DUPLICATE RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43669 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/15/25

Metal	DA76196-10A Original MSD	Spikelot ICPALL6 % Rec	MSD RPD	QC Limit

(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(anr) Analyte not requested

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43669
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/15/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	388000	375000	103.5	80-120
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	385000	375000	102.7	80-120
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	384000	375000	102.4	80-120
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP43669: DA76215-1A, DA76215-2A, DA76215-3A, DA76215-4A, DA76215-5A, DA76215-6A, DA76215-7A, DA76215-8A, DA76215-9A, DA76215-10A

Results < IDL are shown as zero for calculation purposes

SPIKE BLANK AND LAB CONTROL SAMPLE SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43669
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/15/25

Metal	BSP Result	Spikelot ICPALL6	% Rec	QC Limits

(*) Outside of QC limits
(anr) Analyte not requested

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43669
Matrix Type: AQUEOUS

Methods: SW846 6010C
Units: ug/l

Prep Date: 10/15/25

Metal	DA76196-10A Original	SDL 1:5	%DIF	QC Limits
Aluminum				
Antimony				
Arsenic				
Barium				
Beryllium				
Boron				
Cadmium				
Calcium	11600	10600	8.3	0-10
Chromium				
Cobalt				
Copper				
Iron				
Lead				
Lithium				
Magnesium	3400	2850	15.9*(a)	0-10
Manganese				
Molybdenum				
Nickel				
Phosphorus				
Potassium				
Selenium				
Silicon				
Silver				
Sodium	4200	3800	9.5	0-10
Strontium				
Thallium				
Tin				
Titanium				
Uranium				
Vanadium				
Zinc				

Associated samples MP43669: DA76215-1A, DA76215-2A, DA76215-3A, DA76215-4A, DA76215-5A, DA76215-6A, DA76215-7A, DA76215-8A, DA76215-9A, DA76215-10A

Results < IDL are shown as zero for calculation purposes

SERIAL DILUTION RESULTS SUMMARY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

QC Batch ID: MP43669 Methods: SW846 6010C
Matrix Type: AQUEOUS Units: ug/l

Prep Date: 10/15/25

	DA76196-10A		QC
Metal	Original SDL 1:5	%DIF	Limits

(*) Outside of QC limits
(anr) Analyte not requested
(a) Serial dilution indicates possible matrix interference.

General Chemistry

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QC Data Summaries

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Specific Conductivity	GP39726/GN69868			mmhos/cm	1.409	1.4	98.9	90-110%

Associated Samples:
Batch GN69868: DA76215-1, DA76215-2, DA76215-3, DA76215-4, DA76215-5, DA76215-6, DA76215-7, DA76215-8, DA76215-9, DA76215-10
Batch GP39726: DA76215-1, DA76215-2, DA76215-3, DA76215-4, DA76215-5, DA76215-6, DA76215-7, DA76215-8, DA76215-9, DA76215-10
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA76215
Account: CIVITCOW - Civitas
Project: ENSOCOWR: State Antelope 34-12-1XRLNB

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Specific Conductivity	GN69868	DA76225-4	mmhos/cm	0.57	0.54	3.8	0-20%
pH	GN69867	DA76196-10	su	7.82	7.83	0.1	0-5%

Associated Samples:
Batch GN69867: DA76215-1, DA76215-2, DA76215-3, DA76215-4, DA76215-5, DA76215-6, DA76215-7, DA76215-8, DA76215-9, DA76215-10
Batch GN69868: DA76215-1, DA76215-2, DA76215-3, DA76215-4, DA76215-5, DA76215-6, DA76215-7, DA76215-8, DA76215-9, DA76215-10
(*) Outside of QC limits

Misc. Forms

Custody Documents and Other Forms

(SGS Dayton, NJ)

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

SGS North America Inc. - Wheat Ridge
4036 Youngfield Street, Wheat Ridge, CO 80033
TEL: 303-425-6021 FAX: 303-425-6854
www.sgs.com/ehsusa

FED EX Tracking # 7444 - 9079 - 0597 | Bottle Order Control #
SGS Quote # | SGS Job # DA76215

Client / Reporting Information	Project Information	Requested Analysis (see TEST CODE sheet)	Matrix Codes
Company Name: SGS North America Inc.	Project Name: ENSOCOWR; State Antelope 34-12-1XRLNB		DW - Drinking Water GW - Ground Water WW - Water SW - Surface Water SO - Soil SL- Sludge SED-Sediment OI - Oil LIQ - Other Liquid AIR - Air SOL - Other Solid WP - Wipe FB-Field Blank EB-Equipment Blank RB- Rinse Blank TB-Trip Blank
Street Address: 4036 Youngfield Street	Street	Billing Information (if different from Report to)	
City State Zip: Wheat Ridge, CO 8003:	City State	Company Name	
Project Contact E-mail: parna.eskandaripayandeh@sgs.com	Project #	Street Address	
Phone # 303-425-6021 Fax #	Client Purchase Order #	City State Zip	
Sampler(s) Name(s) Phone: MB	Project Manager	Attention:	

SGS Sample #	Field ID / Point of Collection	MEOH/DI Vial #	Collection Date	Collection Time	Sampled by	Matrix	# of bottles	Number of preserved Bottles: HCl	NaOH	HNO3	H2SO4	NONE	DI Water	MEOH	ENCORE	XCRA7199.									LAB USE ONLY
1	NATIVE-BG01@3'		10/14/25	9:05:00 AM	MB	SO										X									
2	NATIVE-BG01@6'		10/14/25	9:15:00 AM	MB	SO										X									
3	NATIVE-BG02@3'		10/14/25	9:20:00 AM	MB	SO										X									
4	NATIVE-BG02@6'		10/14/25	9:30:00 AM	MB	SO										X									
5	NATIVE-BG03@3'		10/14/25	9:40:00 AM	MB	SO										X									
6	NATIVE-BG03@6'		10/14/25	9:55:00 AM	MB	SO										X									
7	NATIVE-BG04@3'		10/14/25	9:58:00 AM	MB	SO										X									
8	NATIVE-BG04@6'		10/14/25	10:10:00 AM	MB	SO										X									
9	NATIVE-BG05@3'		10/14/25	10:15:00 AM	MB	SO										X									
10	NATIVE-BG05@6'		10/14/25	10:30:00 AM	MB	SO										X									

Turnaround Time (Business days) | Data Deliverable Information | Comments / Special Instructions

Approved By (SGS PM): / Date:

- [ ] Standard 10 Day (business)
- [ ] 5 Business Days RUSH
- [ ] 3 Business Days RUSH
- [ ] 2 Business Days RUSH
- [ ] 1 Business Day EMERGENCY
- [X] other Due 10/28/2025

Emergency & Rush T/A data available via Lablink. Approval needed for RUSH/Emergency TAT

- [ ] Commercial "A" (Level 1)
- [ ] Commercial "B" (Level 2)
- [ ] REDT1 (Level 3)
- [ ] FULT1 (Level 4)
- [ ] Commercial "C"
- [ ] State Forms
- [ ] EDD Format
- [ ] Other
- [X] CC

Commercial "A" = Results Only
Commercial "B" = Results + QC Summary
Commercial "C" = Results + QC Summary + Partial Raw data

Initial Assessment DJ-2B
Label Verification

http://www.sgs.com/en/terms-and-conditions

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler: 1	Date Time: 10/15/25	Received By: 1 Fedex	Relinquished By: 2 Fedex	Date Time: 10/16	Received By: 2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time: ~~11:15~~	Received By: 4
Relinquished by: 5	Date Time:	Received By: 5	Custody Seal # ☐ Intact ☐ Not Intact	Preserved where applicable ☐ Therm. ID:	9:30 On Ice ☒ Cooler Temp. 2-4

7.1

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SGS Sample Receipt Summary

Job Number: DA76215 **Client:** SGS WHEAT RIDGE CO **Project:** ENSOCOWR: STATE ANTELOPE 34-12 1

Date / Time Received: 10/16/2025 9:30:00 AM **Delivery Method:** fedex **Airbill #'s:**

Cooler Temps (Raw Measured) °C: Cooler 1: (2.4);

Cooler Temps (Corrected) °C: Cooler 1: (2.5);

Cooler Security	Y	or	N		Y	or	N
1. Custody Seals Present:	☑		☐	3. COC Present:	☑		☐
2. Custody Seals Intact:	☑		☐	4. Smpl Dates/Time OK	☑		☐

Cooler Temperature	Y	or	N
1. Temp criteria achieved:	☑		☐
2. Cooler temp verification:	IR-50		
3. Cooler media:	Ice (Bag)		
4. No. Coolers:	1		

Quality Control Preservatio	Y	or	N	N/A
1. Trip Blank present / cooler:	☐		☑	☐
2. Trip Blank listed on COC:	☐		☑	☐
3. Samples preserved properly:	☑		☐	
4. VOCs headspace free:	☐		☐	☑

Sample Integrity - Documentation	Y	or	N
1. Sample labels present on bottles:	☑		☐
2. Container labeling complete:	☑		☐
3. Sample container label / COC agree:	☑		☐

Sample Integrity - Condition	Y	or	N
1. Sample recvd within HT:	☑		☐
2. All containers accounted for:	☑		☐
3. Condition of sample:	Intact		

Sample Integrity - Instructions	Y	or	N	N/A
1. Analysis requested is clear:	☑		☐	
2. Bottles received for unspecified tests	☐		☑	
3. Sufficient volume recvd for analysis:	☑		☐	
4. Compositing instructions clear:	☐		☐	☑
5. Filtering instructions clear:	☐		☐	☑

Test Strip Lot #s: pH 1-12: 231619 pH 12+: 203117A Other: (Specify)

Comments

SM089-03
Rev. Date 12/7/17

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DA76215: Chain of Custody
Page 2 of 2

General Chemistry

QC Data Summaries

(SGS Dayton, NJ)

Includes the following where applicable:

- Method Blank and Blank Spike Summaries
- Duplicate Summaries
- Matrix Spike Summaries

METHOD BLANK AND SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA76215
Account: ALMS - SGS Wheat Ridge, CO
Project: CIVITCOW: ENSOCOWR: State Antelope 34-12-1XRLNB

Analyte	Batch ID	RL	MB Result	Units	Spike Amount	BSP Result	BSP %Recov	QC Limits
Chromium, Hexavalent	GP65388/GN75977	0.40	0.0	mg/kg	40	39.1	97.8	80-120%
Chromium, Hexavalent	GP65388/GN75977			mg/kg	1230	1380	112.3	80-120%
Chromium, Hexavalent	GP65391/GN75876	0.40	0.0	mg/kg	40	37.2	93.0	80-120%
Chromium, Hexavalent	GP65391/GN75876			mg/kg	946	972	102.7	80-120%

Associated Samples:
Batch GP65388: DA76215-1, DA76215-2, DA76215-3, DA76215-4
Batch GP65391: DA76215-5, DA76215-6, DA76215-7, DA76215-8, DA76215-9, DA76215-10
(*) Outside of QC limits

DUPLICATE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA76215
Account: ALMS - SGS Wheat Ridge, CO
Project: CIVITCOW: ENSOCOWR: State Antelope 34-12-1XRLNB

Analyte	Batch ID	QC Sample	Units	Original Result	DUP Result	RPD	QC Limits
Chromium, Hexavalent	GP65388/GN75977	DA76195-18	mg/kg	0.0	0.0	0.0	0-20%
Chromium, Hexavalent	GP65391/GN75876	DA76928-4C	mg/kg	0.0	0.0	0.0	0-20%

Associated Samples:
Batch GP65388: DA76215-1, DA76215-2, DA76215-3, DA76215-4
Batch GP65391: DA76215-5, DA76215-6, DA76215-7, DA76215-8, DA76215-9, DA76215-10
(*) Outside of QC limits

MATRIX SPIKE RESULTS SUMMARY
GENERAL CHEMISTRY

Login Number: DA76215
Account: ALMS - SGS Wheat Ridge, CO
Project: CIVITCOW: ENSOCOWR: State Antelope 34-12-1XRLNB

Analyte	Batch ID	QC Sample	Units	Original Result	Spike Amount	MS Result	%Rec	QC Limits
Chromium, Hexavalent	GP65388/GN75977	DA76195-18	mg/kg	0.0	47.3	48.3	102.1(a)	75-125%
Chromium, Hexavalent	GP65388/GN75977	DA76195-18	mg/kg	0.0	1530	1710	111.6(b)	75-125%
Chromium, Hexavalent	GP65391/GN75876	DA76928-4C	mg/kg	0.0	48.5	41.1	84.7(c)	75-125%
Chromium, Hexavalent	GP65391/GN75876	DA76928-4C	mg/kg	0.0	964	883	91.6(b)	75-125%

Associated Samples:
Batch GP65388: DA76215-1, DA76215-2, DA76215-3, DA76215-4
Batch GP65391: DA76215-5, DA76215-6, DA76215-7, DA76215-8, DA76215-9, DA76215-10
(*) Outside of QC limits
(N) Matrix Spike Rec. outside of QC limits
(a) Good recovery on soluble XCR matrix spike. Good recovery (105.7%) on the post-spike.
(b) Good recovery on insoluble XCR matrix spike. See additional comments on soluble matrix spike recovery.
(c) Good recovery on soluble XCR matrix spike. Good recovery (93.07%) on the post-spike.