

ANALYTICAL REPORT

PREPARED FOR

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JOB DESCRIPTION

DEO Red Rocks, Colorado

JOB NUMBER

280-202506-1

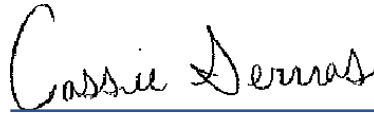
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Job Notes

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The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

Authorization



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Revision 1



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Definitions/Glossary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Qualifiers

GC/MS Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
S1+	Surrogate recovery exceeds control limits, high biased.

GC Semi VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Metals

Qualifier	Qualifier Description
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

General Chemistry

Qualifier	Qualifier Description
HF	Parameter with a holding time of 15 minutes. Test performed by laboratory at client's request. Sample was analyzed outside of hold time.

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Case Narrative

Client: Topographic
Project: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Job ID: 280-202506-1

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Job Narrative 280-202506-1

REVISION

The report being provided is a revision of the original report sent on 2/27/2025. The report (revision 1) is being revised due to client is requesting a secured file. This will cause the original modified date to differ from the issued date.

Report Revision History:

Revision 1- 4/10/2025- Reason- The client requested to have the results in a secured PDF. This could create a discrepancy between the creation/modified date vs secured date.

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt

The samples were received on 2/3/2025 1:20 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperatures of the 4 coolers at receipt time were 4.5°C, 4.8°C, 5.1°C and 5.6°C.

Receipt Exceptions

Client labels affixed to Tared VOA. RR116-DCA01 (280-202506-1), RR116-DCA02 (280-202506-2), RR116-DCA03 (280-202506-3), RR116-TA01 (280-202506-4), RR116-TA02 (280-202506-5), RR116-TA03 (280-202506-6), RR116-TA04 (280-202506-7), RR116-TA05 (280-202506-8), RR116-SA01 (280-202506-9), RR116-SA02 (280-202506-10), RR116-SA03 (280-202506-11), RR116-SA04 (280-202506-12), RR116-SA05 (280-202506-13) and RR116-BG01 (280-202506-14)

GC/MS VOA

Method 8260D: A nominal tare weight was used, due to the tare weight label on the vial was unreadable. RR116-BG01 (280-202506-14)

Method 8260D: Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-684190 and analytical batch 280-684146.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

GC/MS Semi VOA

Method 8270E_SIM: Due to the matrix being non-homogenous, the initial volume used for the following samples was five grams instead of fifteen grams, which deviated from the standard procedure in order to prevent microwave venting and microwave equipment damage: RR116-DCA01 (280-202506-1), RR116-DCA02 (280-202506-2), RR116-DCA03 (280-202506-3), RR116-TA01 (280-202506-4), RR116-TA02 (280-202506-5), RR116-TA03 (280-202506-6), RR116-TA04 (280-202506-7), RR116-TA05 (280-202506-8), RR116-SA01 (280-202506-9), RR116-SA02 (280-202506-10), RR116-SA03 (280-202506-11), RR116-SA04 (280-202506-12), RR116-SA05 (280-202506-13) and RR116-BG01 (280-202506-14) in preparation batch 280-684633. The reporting limits (RLs) have been adjusted proportionately.

Method 8270E_SIM: Surrogate recovery for the following samples were outside the upper control limit: RR116-TA05 (280-202506-8) and RR116-SA03 (280-202506-11). This sample did not contain any target analytes; therefore, re-extraction and/or re-analysis was not performed.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Case Narrative

Client: Topographic
Project: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Job ID: 280-202506-1 (Continued)

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Gasoline Range Organics

Method 8015D_GRO: The laboratory control sample (LCS) was performed in duplicate (LCSD) to provide precision data for this batch. Insufficient sample volume was available to perform a matrix spike/matrix spike duplicate (MS/MSD) associated with preparation batch 280-684023. Method 8015GRO

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Diesel Range Organics

Method 8015D_DRO: Due to the matrix consisting of a rocky clay, the initial volumes used for the following samples RR116-SA05 (280-202506-13) and RR116-BG01 (280-202506-14) in preparation batch 280-684601 deviated from the standard procedure. 5g was used instead of the normal 15g. The reporting limits (RLs) have been adjusted proportionately.

Method 8015D_DRO: Due to the matrix being clay, the initial volume used for the following samples was five grams instead of fifteen grams, which deviated from the standard procedure in order to prevent microwave venting and microwave equipment damage: RR116-DCA01 (280-202506-1), RR116-DCA02 (280-202506-2), RR116-DCA03 (280-202506-3), RR116-TA01 (280-202506-4), RR116-TA02 (280-202506-5), RR116-TA03 (280-202506-6), RR116-TA04 (280-202506-7), RR116-TA05 (280-202506-8), RR116-SA01 (280-202506-9), RR116-SA02 (280-202506-10), RR116-SA03 (280-202506-11), RR116-SA04 (280-202506-12), (280-202506-G-12 MS) and (280-202506-G-12 MSD) in preparation batch 280-684706. The reporting limits (RLs) have been adjusted proportionately.

Method 8015D_DRO: The peak profile present in this sample RR116-SA03 (280-202506-11) is atypical of a hydrocarbon pattern and consists of one discrete peak.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Metals

Method 29B_SAR_Calc - Soluble: The following samples were diluted to bring the concentration of target analytes within the calibration range: RR116-DCA02 (280-202506-2), RR116-DCA03 (280-202506-3), RR116-TA01 (280-202506-4), RR116-TA02 (280-202506-5), RR116-TA03 (280-202506-6), RR116-TA04 (280-202506-7), RR116-TA05 (280-202506-8) and RR116-SA03 (280-202506-11). Elevated reporting limits (RLs) are provided.

Method 6020B: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 280-683490 and analytical batch 280-683721 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference, high targets and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

General Chemistry

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

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Detection Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-DCA01

Lab Sample ID: 280-202506-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C20-C38)	18	J	32	13	mg/Kg	1	✳	8015D	Total/NA
Sodium Adsorption Ratio	0.59		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	11		8.8	4.4	mg/Kg	1	✳	6010D	Total/NA
Silver	0.048	J	0.10	0.026	mg/Kg	1	✳	6020B	Total/NA
Arsenic	6.2		0.21	0.051	mg/Kg	1	✳	6020B	Total/NA
Barium	350		0.41	0.15	mg/Kg	1	✳	6020B	Total/NA
Cadmium	0.27		0.10	0.026	mg/Kg	1	✳	6020B	Total/NA
Chromium	13		0.62	0.26	mg/Kg	1	✳	6020B	Total/NA
Copper	11		0.62	0.31	mg/Kg	1	✳	6020B	Total/NA
Nickel	11		0.62	0.26	mg/Kg	1	✳	6020B	Total/NA
Lead	6.9		0.41	0.15	mg/Kg	1	✳	6020B	Total/NA
Selenium	0.32		0.21	0.051	mg/Kg	1	✳	6020B	Total/NA
Zinc	31		2.1	1.0	mg/Kg	1	✳	6020B	Total/NA
Specific Conductance	200		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	580		10	10	umho/cm	1		29B_EC	Total/NA
pH	8.5	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

Client Sample ID: RR116-DCA02

Lab Sample ID: 280-202506-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium Adsorption Ratio	7.3		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	13		9.1	4.6	mg/Kg	1	✳	6010D	Total/NA
Silver	0.055	J	0.091	0.023	mg/Kg	1	✳	6020B	Total/NA
Arsenic	7.1		0.18	0.046	mg/Kg	1	✳	6020B	Total/NA
Barium	230		0.36	0.14	mg/Kg	1	✳	6020B	Total/NA
Cadmium	0.33		0.091	0.023	mg/Kg	1	✳	6020B	Total/NA
Chromium	19		0.55	0.23	mg/Kg	1	✳	6020B	Total/NA
Copper	15		0.55	0.27	mg/Kg	1	✳	6020B	Total/NA
Nickel	16		0.55	0.23	mg/Kg	1	✳	6020B	Total/NA
Lead	10		0.36	0.14	mg/Kg	1	✳	6020B	Total/NA
Selenium	0.56		0.18	0.046	mg/Kg	1	✳	6020B	Total/NA
Zinc	50		1.8	0.91	mg/Kg	1	✳	6020B	Total/NA
Specific Conductance	4500		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	13000		10	10	umho/cm	1		29B_EC	Total/NA
pH	8.1	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

Client Sample ID: RR116-DCA03

Lab Sample ID: 280-202506-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C20-C38)	22	J	33	13	mg/Kg	1	✳	8015D	Total/NA
Sodium Adsorption Ratio	0.82		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	12		8.6	4.3	mg/Kg	1	✳	6010D	Total/NA
Silver	0.060	J	0.086	0.021	mg/Kg	1	✳	6020B	Total/NA
Arsenic	7.3		0.17	0.043	mg/Kg	1	✳	6020B	Total/NA
Barium	260		0.34	0.13	mg/Kg	1	✳	6020B	Total/NA
Cadmium	0.35		0.086	0.021	mg/Kg	1	✳	6020B	Total/NA
Chromium	22		0.51	0.21	mg/Kg	1	✳	6020B	Total/NA
Copper	17		0.51	0.26	mg/Kg	1	✳	6020B	Total/NA
Nickel	17		0.51	0.21	mg/Kg	1	✳	6020B	Total/NA
Lead	12		0.34	0.13	mg/Kg	1	✳	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-DCA03 (Continued)

Lab Sample ID: 280-202506-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Selenium	0.41		0.17	0.043	mg/Kg	1	☼	6020B	Total/NA
Zinc	57		1.7	0.86	mg/Kg	1	☼	6020B	Total/NA
Specific Conductance	1100		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	2500		10	10	umho/cm	1		29B_EC	Total/NA
pH	7.7	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

Client Sample ID: RR116-TA01

Lab Sample ID: 280-202506-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C20-C38)	15	J	30	12	mg/Kg	1	☼	8015D	Total/NA
Sodium Adsorption Ratio	0.84		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	13		8.6	4.3	mg/Kg	1	☼	6010D	Total/NA
Silver	0.046	J	0.086	0.021	mg/Kg	1	☼	6020B	Total/NA
Arsenic	6.5		0.17	0.043	mg/Kg	1	☼	6020B	Total/NA
Barium	230		0.34	0.13	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.29		0.086	0.021	mg/Kg	1	☼	6020B	Total/NA
Chromium	18		0.51	0.21	mg/Kg	1	☼	6020B	Total/NA
Copper	14		0.51	0.26	mg/Kg	1	☼	6020B	Total/NA
Nickel	14		0.51	0.21	mg/Kg	1	☼	6020B	Total/NA
Lead	10		0.34	0.13	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.55		0.17	0.043	mg/Kg	1	☼	6020B	Total/NA
Zinc	46		1.7	0.86	mg/Kg	1	☼	6020B	Total/NA
Specific Conductance	3600		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	11000		10	10	umho/cm	1		29B_EC	Total/NA
pH	7.7	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

Client Sample ID: RR116-TA02

Lab Sample ID: 280-202506-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C20-C38)	23	J	33	13	mg/Kg	1	☼	8015D	Total/NA
Sodium Adsorption Ratio	0.99		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	12		9.5	4.7	mg/Kg	1	☼	6010D	Total/NA
Silver	0.042	J	0.095	0.024	mg/Kg	1	☼	6020B	Total/NA
Arsenic	6.4		0.19	0.047	mg/Kg	1	☼	6020B	Total/NA
Barium	250		0.38	0.14	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.25		0.095	0.024	mg/Kg	1	☼	6020B	Total/NA
Chromium	17		0.57	0.24	mg/Kg	1	☼	6020B	Total/NA
Copper	14		0.57	0.28	mg/Kg	1	☼	6020B	Total/NA
Nickel	14		0.57	0.24	mg/Kg	1	☼	6020B	Total/NA
Lead	9.9		0.38	0.14	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.44		0.19	0.047	mg/Kg	1	☼	6020B	Total/NA
Zinc	45		1.9	0.95	mg/Kg	1	☼	6020B	Total/NA
Specific Conductance	3700		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	11000		10	10	umho/cm	1		29B_EC	Total/NA
pH	7.9	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

This Detection Summary does not include radiochemical test results.

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Detection Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-TA03

Lab Sample ID: 280-202506-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C20-C38)	21	J	31	12	mg/Kg	1	✳	8015D	Total/NA
Sodium Adsorption Ratio	4.0		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	12		10	5.1	mg/Kg	1	✳	6010D	Total/NA
Silver	0.059	J	0.10	0.026	mg/Kg	1	✳	6020B	Total/NA
Arsenic	7.4		0.20	0.051	mg/Kg	1	✳	6020B	Total/NA
Barium	240		0.41	0.15	mg/Kg	1	✳	6020B	Total/NA
Cadmium	0.34		0.10	0.026	mg/Kg	1	✳	6020B	Total/NA
Chromium	23		0.61	0.26	mg/Kg	1	✳	6020B	Total/NA
Copper	18		0.61	0.31	mg/Kg	1	✳	6020B	Total/NA
Nickel	17		0.61	0.26	mg/Kg	1	✳	6020B	Total/NA
Lead	12		0.41	0.15	mg/Kg	1	✳	6020B	Total/NA
Selenium	0.48		0.20	0.051	mg/Kg	1	✳	6020B	Total/NA
Zinc	61		2.0	1.0	mg/Kg	1	✳	6020B	Total/NA
Specific Conductance	1700		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	4200		10	10	umho/cm	1		29B_EC	Total/NA
pH	7.5	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

Client Sample ID: RR116-TA04

Lab Sample ID: 280-202506-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (C10-C28)	15	J	34	13	mg/Kg	1	✳	8015D	Total/NA
ORO (C20-C38)	38		34	13	mg/Kg	1	✳	8015D	Total/NA
Sodium Adsorption Ratio	1.1		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	12		8.9	4.4	mg/Kg	1	✳	6010D	Total/NA
Silver	0.038	J	0.089	0.022	mg/Kg	1	✳	6020B	Total/NA
Arsenic	6.0		0.18	0.044	mg/Kg	1	✳	6020B	Total/NA
Barium	250		0.35	0.13	mg/Kg	1	✳	6020B	Total/NA
Cadmium	0.26		0.089	0.022	mg/Kg	1	✳	6020B	Total/NA
Chromium	16		0.53	0.22	mg/Kg	1	✳	6020B	Total/NA
Copper	13		0.53	0.27	mg/Kg	1	✳	6020B	Total/NA
Nickel	13		0.53	0.22	mg/Kg	1	✳	6020B	Total/NA
Lead	9.4		0.35	0.13	mg/Kg	1	✳	6020B	Total/NA
Selenium	0.40		0.18	0.044	mg/Kg	1	✳	6020B	Total/NA
Zinc	42		1.8	0.89	mg/Kg	1	✳	6020B	Total/NA
Specific Conductance	3600		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	11000		10	10	umho/cm	1		29B_EC	Total/NA
pH	7.9	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

Client Sample ID: RR116-TA05

Lab Sample ID: 280-202506-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C20-C38)	16	J	32	13	mg/Kg	1	✳	8015D	Total/NA
Sodium Adsorption Ratio	0.34		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	11		8.4	4.2	mg/Kg	1	✳	6010D	Total/NA
Silver	0.034	J	0.084	0.021	mg/Kg	1	✳	6020B	Total/NA
Arsenic	6.9		0.17	0.042	mg/Kg	1	✳	6020B	Total/NA
Barium	290		0.34	0.13	mg/Kg	1	✳	6020B	Total/NA
Cadmium	0.33		0.084	0.021	mg/Kg	1	✳	6020B	Total/NA
Chromium	18		0.50	0.21	mg/Kg	1	✳	6020B	Total/NA
Copper	15		0.50	0.25	mg/Kg	1	✳	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-TA05 (Continued)

Lab Sample ID: 280-202506-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Nickel	15		0.50	0.21	mg/Kg	1	☼	6020B	Total/NA
Lead	9.9		0.34	0.13	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.36		0.17	0.042	mg/Kg	1	☼	6020B	Total/NA
Zinc	46		1.7	0.84	mg/Kg	1	☼	6020B	Total/NA
Specific Conductance	1100		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	2800		10	10	umho/cm	1		29B_EC	Total/NA
pH	7.8	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

Client Sample ID: RR116-SA01

Lab Sample ID: 280-202506-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Naphthalene	0.0071	J	0.033	0.0066	mg/Kg	1	☼	8270E SIM	Total/NA
ORO (C20-C38)	21	J	32	13	mg/Kg	1	☼	8015D	Total/NA
Sodium Adsorption Ratio	0.21		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	8.0	J	8.4	4.2	mg/Kg	1	☼	6010D	Total/NA
Silver	0.043	J	0.084	0.021	mg/Kg	1	☼	6020B	Total/NA
Arsenic	7.1		0.17	0.042	mg/Kg	1	☼	6020B	Total/NA
Barium	150		0.34	0.13	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.23		0.084	0.021	mg/Kg	1	☼	6020B	Total/NA
Chromium	15		0.50	0.21	mg/Kg	1	☼	6020B	Total/NA
Copper	12		0.50	0.25	mg/Kg	1	☼	6020B	Total/NA
Nickel	13		0.50	0.21	mg/Kg	1	☼	6020B	Total/NA
Lead	9.0		0.34	0.13	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.40		0.17	0.042	mg/Kg	1	☼	6020B	Total/NA
Zinc	45		1.7	0.84	mg/Kg	1	☼	6020B	Total/NA
Specific Conductance	420		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	1400		10	10	umho/cm	1		29B_EC	Total/NA
pH	7.8	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

Client Sample ID: RR116-SA02

Lab Sample ID: 280-202506-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C20-C38)	18	J	33	13	mg/Kg	1	☼	8015D	Total/NA
Sodium Adsorption Ratio	0.16		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	8.7		8.5	4.2	mg/Kg	1	☼	6010D	Total/NA
Silver	0.037	J	0.085	0.021	mg/Kg	1	☼	6020B	Total/NA
Arsenic	6.8		0.17	0.042	mg/Kg	1	☼	6020B	Total/NA
Barium	220		0.34	0.13	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.28		0.085	0.021	mg/Kg	1	☼	6020B	Total/NA
Chromium	15		0.51	0.21	mg/Kg	1	☼	6020B	Total/NA
Copper	12		0.51	0.25	mg/Kg	1	☼	6020B	Total/NA
Nickel	14		0.51	0.21	mg/Kg	1	☼	6020B	Total/NA
Lead	9.2		0.34	0.13	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.39		0.17	0.042	mg/Kg	1	☼	6020B	Total/NA
Zinc	40		1.7	0.85	mg/Kg	1	☼	6020B	Total/NA
Specific Conductance	480		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	1500		10	10	umho/cm	1		29B_EC	Total/NA
pH	7.8	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-SA03

Lab Sample ID: 280-202506-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (C10-C28)	14	J	35	14	mg/Kg	1	✳	8015D	Total/NA
ORO (C20-C38)	25	J	35	14	mg/Kg	1	✳	8015D	Total/NA
Sodium Adsorption Ratio	2.8		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	11		8.7	4.3	mg/Kg	1	✳	6010D	Total/NA
Silver	0.039	J	0.087	0.022	mg/Kg	1	✳	6020B	Total/NA
Arsenic	9.7		0.17	0.043	mg/Kg	1	✳	6020B	Total/NA
Barium	390		0.35	0.13	mg/Kg	1	✳	6020B	Total/NA
Cadmium	0.29		0.087	0.022	mg/Kg	1	✳	6020B	Total/NA
Chromium	18		0.52	0.22	mg/Kg	1	✳	6020B	Total/NA
Copper	14		0.52	0.26	mg/Kg	1	✳	6020B	Total/NA
Nickel	17		0.52	0.22	mg/Kg	1	✳	6020B	Total/NA
Lead	12		0.35	0.13	mg/Kg	1	✳	6020B	Total/NA
Selenium	0.50		0.17	0.043	mg/Kg	1	✳	6020B	Total/NA
Zinc	45		1.7	0.87	mg/Kg	1	✳	6020B	Total/NA
Specific Conductance	1200		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	3400		10	10	umho/cm	1		29B_EC	Total/NA
pH	8.3	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

Client Sample ID: RR116-SA04

Lab Sample ID: 280-202506-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C20-C38)	17	J	29	12	mg/Kg	1	✳	8015D	Total/NA
Sodium Adsorption Ratio	0.23		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	8.4		8.3	4.1	mg/Kg	1	✳	6010D	Total/NA
Silver	0.033	J	0.083	0.021	mg/Kg	1	✳	6020B	Total/NA
Arsenic	6.5		0.17	0.041	mg/Kg	1	✳	6020B	Total/NA
Barium	220		0.33	0.12	mg/Kg	1	✳	6020B	Total/NA
Cadmium	0.24		0.083	0.021	mg/Kg	1	✳	6020B	Total/NA
Chromium	14		0.50	0.21	mg/Kg	1	✳	6020B	Total/NA
Copper	12		0.50	0.25	mg/Kg	1	✳	6020B	Total/NA
Nickel	12		0.50	0.21	mg/Kg	1	✳	6020B	Total/NA
Lead	7.5		0.33	0.12	mg/Kg	1	✳	6020B	Total/NA
Selenium	0.32		0.17	0.041	mg/Kg	1	✳	6020B	Total/NA
Zinc	34		1.7	0.83	mg/Kg	1	✳	6020B	Total/NA
Specific Conductance	600		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	1900		10	10	umho/cm	1		29B_EC	Total/NA
pH	8.1	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

Client Sample ID: RR116-SA05

Lab Sample ID: 280-202506-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
DRO (C10-C28)	14	J	34	14	mg/Kg	1	✳	8015D	Total/NA
ORO (C20-C38)	34		34	14	mg/Kg	1	✳	8015D	Total/NA
Sodium Adsorption Ratio	0.95		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	11		10	5.0	mg/Kg	1	✳	6010D	Total/NA
Silver	0.045	J	0.10	0.025	mg/Kg	1	✳	6020B	Total/NA
Arsenic	7.5		0.20	0.050	mg/Kg	1	✳	6020B	Total/NA
Barium	270		0.40	0.15	mg/Kg	1	✳	6020B	Total/NA
Cadmium	0.29		0.10	0.025	mg/Kg	1	✳	6020B	Total/NA
Chromium	21		0.60	0.25	mg/Kg	1	✳	6020B	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Detection Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-SA05 (Continued)

Lab Sample ID: 280-202506-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Copper	16		0.60	0.30	mg/Kg	1	☼	6020B	Total/NA
Nickel	18		0.60	0.25	mg/Kg	1	☼	6020B	Total/NA
Lead	11		0.40	0.15	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.40		0.20	0.050	mg/Kg	1	☼	6020B	Total/NA
Zinc	52		2.0	1.0	mg/Kg	1	☼	6020B	Total/NA
Specific Conductance	590		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	1600		10	10	umho/cm	1		29B_EC	Total/NA
pH	7.9	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

Client Sample ID: RR116-BG01

Lab Sample ID: 280-202506-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
ORO (C20-C38)	23	J	35	14	mg/Kg	1	☼	8015D	Total/NA
Sodium Adsorption Ratio	6.4		0.10	0.10	NONE	1		29B SAR	Soluble
Boron	12		10	5.0	mg/Kg	1	☼	6010D	Total/NA
Silver	0.056	J	0.10	0.025	mg/Kg	1	☼	6020B	Total/NA
Arsenic	7.6		0.20	0.050	mg/Kg	1	☼	6020B	Total/NA
Barium	390		0.40	0.15	mg/Kg	1	☼	6020B	Total/NA
Cadmium	0.30		0.10	0.025	mg/Kg	1	☼	6020B	Total/NA
Chromium	26		0.60	0.25	mg/Kg	1	☼	6020B	Total/NA
Copper	19		0.60	0.30	mg/Kg	1	☼	6020B	Total/NA
Nickel	20		0.60	0.25	mg/Kg	1	☼	6020B	Total/NA
Lead	14		0.40	0.15	mg/Kg	1	☼	6020B	Total/NA
Selenium	0.41		0.20	0.050	mg/Kg	1	☼	6020B	Total/NA
Zinc	66		2.0	1.0	mg/Kg	1	☼	6020B	Total/NA
Specific Conductance	130		10	10	umho/cm	1		29B_EC	Total/NA
Electrical Conductivity	330		10	10	umho/cm	1		29B_EC	Total/NA
pH	8.8	HF	0.10	0.10	S.U.	1		29B_pH	Total/NA
Temperature	17	HF	0.10	0.10	Deg. C	1		29B_pH	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Denver

Method Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method	Method Description	Protocol	Laboratory
8260D	Volatile Organic Compounds by GC/MS	SW846	EET DEN
8270E SIM	Semivolatile Organic Compounds (GC/MS SIM)	SW846	EET DEN
8015D	Gasoline Range Organics (GRO) (GC)	SW846	EET DEN
8015D	Diesel Range Organics (DRO) (GC)	SW846	EET DEN
29B SAR	Sodium Adsorption Ratio	LA	EET HOU
6010D	Metals (ICP)	SW846	EET DEN
6020B	Metals (ICP/MS)	SW846	EET DEN
29B_EC	Conductivity, Electrical	LA	EET HOU
29B_pH	pH	LA	EET HOU
7196A	Chromium, Hexavalent	SW846	EET HOU
D 2216	Percent Moisture	ASTM	EET DEN
29B	Preparation, Dry, Grind and Sieve	LA	EET HOU
29B	Preparation, Sodium Absorption Ratio	LA	EET HOU
3050B	Preparation, Metals	SW846	EET DEN
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET HOU
3546	Microwave Extraction	SW846	EET DEN
5030A	Purge and Trap	SW846	EET DEN
5035	Closed System Purge and Trap	SW846	EET DEN
Sat Paste Ext	Saturated Paste Extraction	TAL SOP	EET HOU

Protocol References:

ASTM = ASTM International

LA = Statewide Order No. 29-B, State Of Louisiana

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

TAL SOP = TestAmerica Laboratories, Standard Operating Procedure

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Sample Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-202506-1	RR116-DCA01	Solid	02/02/25 09:27	02/03/25 13:20
280-202506-2	RR116-DCA02	Solid	02/02/25 09:50	02/03/25 13:20
280-202506-3	RR116-DCA03	Solid	02/02/25 10:13	02/03/25 13:20
280-202506-4	RR116-TA01	Solid	02/02/25 10:34	02/03/25 13:20
280-202506-5	RR116-TA02	Solid	02/02/25 11:02	02/03/25 13:20
280-202506-6	RR116-TA03	Solid	02/02/25 11:22	02/03/25 13:20
280-202506-7	RR116-TA04	Solid	02/02/25 11:45	02/03/25 13:20
280-202506-8	RR116-TA05	Solid	02/02/25 12:04	02/03/25 13:20
280-202506-9	RR116-SA01	Solid	02/02/25 12:28	02/03/25 13:20
280-202506-10	RR116-SA02	Solid	02/02/25 13:23	02/03/25 13:20
280-202506-11	RR116-SA03	Solid	02/02/25 13:42	02/03/25 13:20
280-202506-12	RR116-SA04	Solid	02/02/25 14:05	02/03/25 13:20
280-202506-13	RR116-SA05	Solid	02/02/25 14:22	02/03/25 13:20
280-202506-14	RR116-BG01	Solid	02/02/25 14:56	02/03/25 13:20



Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: RR116-DCA01

Date Collected: 02/02/25 09:27

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-1

Matrix: Solid

Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0049	0.00097	mg/Kg	✳	02/02/25 09:27	02/10/25 15:20	1
1,2,4-Trimethylbenzene	ND		0.0049	0.00097	mg/Kg	✳	02/02/25 09:27	02/10/25 15:20	1
Naphthalene	ND		4.9	0.97	ug/Kg	✳	02/02/25 09:27	02/10/25 15:20	1
Ethylbenzene	ND		0.0049	0.00097	mg/Kg	✳	02/02/25 09:27	02/10/25 15:20	1
1,3,5-Trimethylbenzene	ND		0.0049	0.00097	mg/Kg	✳	02/02/25 09:27	02/10/25 15:20	1
Toluene	ND		0.0049	0.0019	mg/Kg	✳	02/02/25 09:27	02/10/25 15:20	1
Xylenes, Total	ND		0.0049	0.00097	mg/Kg	✳	02/02/25 09:27	02/10/25 15:20	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	91		80 - 120	02/02/25 09:27	02/10/25 15:20	1
Toluene-d8 (Surr)	94		80 - 120	02/02/25 09:27	02/10/25 15:20	1
4-Bromofluorobenzene (Surr)	91		80 - 120	02/02/25 09:27	02/10/25 15:20	1
Dibromofluoromethane (Surr)	102		80 - 120	02/02/25 09:27	02/10/25 15:20	1

Client Sample ID: RR116-DCA02

Date Collected: 02/02/25 09:50

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-2

Matrix: Solid

Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0048	0.00096	mg/Kg	✳	02/02/25 09:50	02/10/25 15:39	1
1,2,4-Trimethylbenzene	ND		0.0048	0.00096	mg/Kg	✳	02/02/25 09:50	02/10/25 15:39	1
Naphthalene	ND		4.8	0.96	ug/Kg	✳	02/02/25 09:50	02/10/25 15:39	1
Ethylbenzene	ND		0.0048	0.00096	mg/Kg	✳	02/02/25 09:50	02/10/25 15:39	1
1,3,5-Trimethylbenzene	ND		0.0048	0.00096	mg/Kg	✳	02/02/25 09:50	02/10/25 15:39	1
Toluene	ND		0.0048	0.0019	mg/Kg	✳	02/02/25 09:50	02/10/25 15:39	1
Xylenes, Total	ND		0.0048	0.00096	mg/Kg	✳	02/02/25 09:50	02/10/25 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		80 - 120	02/02/25 09:50	02/10/25 15:39	1
Toluene-d8 (Surr)	94		80 - 120	02/02/25 09:50	02/10/25 15:39	1
4-Bromofluorobenzene (Surr)	90		80 - 120	02/02/25 09:50	02/10/25 15:39	1
Dibromofluoromethane (Surr)	102		80 - 120	02/02/25 09:50	02/10/25 15:39	1

Client Sample ID: RR116-DCA03

Date Collected: 02/02/25 10:13

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-3

Matrix: Solid

Percent Solids: 86.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0053	0.0011	mg/Kg	✳	02/02/25 10:13	02/10/25 15:59	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0011	mg/Kg	✳	02/02/25 10:13	02/10/25 15:59	1
Naphthalene	ND		5.3	1.1	ug/Kg	✳	02/02/25 10:13	02/10/25 15:59	1
Ethylbenzene	ND		0.0053	0.0011	mg/Kg	✳	02/02/25 10:13	02/10/25 15:59	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0011	mg/Kg	✳	02/02/25 10:13	02/10/25 15:59	1
Toluene	ND		0.0053	0.0021	mg/Kg	✳	02/02/25 10:13	02/10/25 15:59	1
Xylenes, Total	ND		0.0053	0.0011	mg/Kg	✳	02/02/25 10:13	02/10/25 15:59	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		80 - 120	02/02/25 10:13	02/10/25 15:59	1
Toluene-d8 (Surr)	96		80 - 120	02/02/25 10:13	02/10/25 15:59	1
4-Bromofluorobenzene (Surr)	94		80 - 120	02/02/25 10:13	02/10/25 15:59	1
Dibromofluoromethane (Surr)	102		80 - 120	02/02/25 10:13	02/10/25 15:59	1

Eurofins Denver

Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: RR116-TA01
Date Collected: 02/02/25 10:34
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-4
Matrix: Solid
Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0046	0.00093	mg/Kg	✳	02/02/25 10:34	02/10/25 16:18	1
1,2,4-Trimethylbenzene	ND		0.0046	0.00093	mg/Kg	✳	02/02/25 10:34	02/10/25 16:18	1
Naphthalene	ND		4.6	0.93	ug/Kg	✳	02/02/25 10:34	02/10/25 16:18	1
Ethylbenzene	ND		0.0046	0.00093	mg/Kg	✳	02/02/25 10:34	02/10/25 16:18	1
1,3,5-Trimethylbenzene	ND		0.0046	0.00093	mg/Kg	✳	02/02/25 10:34	02/10/25 16:18	1
Toluene	ND		0.0046	0.0019	mg/Kg	✳	02/02/25 10:34	02/10/25 16:18	1
Xylenes, Total	ND		0.0046	0.00093	mg/Kg	✳	02/02/25 10:34	02/10/25 16:18	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		80 - 120	02/02/25 10:34	02/10/25 16:18	1
Toluene-d8 (Surr)	94		80 - 120	02/02/25 10:34	02/10/25 16:18	1
4-Bromofluorobenzene (Surr)	91		80 - 120	02/02/25 10:34	02/10/25 16:18	1
Dibromofluoromethane (Surr)	101		80 - 120	02/02/25 10:34	02/10/25 16:18	1

Client Sample ID: RR116-TA02
Date Collected: 02/02/25 11:02
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-5
Matrix: Solid
Percent Solids: 85.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0047	0.00095	mg/Kg	✳	02/02/25 11:02	02/10/25 16:38	1
1,2,4-Trimethylbenzene	ND		0.0047	0.00095	mg/Kg	✳	02/02/25 11:02	02/10/25 16:38	1
Naphthalene	ND		4.7	0.95	ug/Kg	✳	02/02/25 11:02	02/10/25 16:38	1
Ethylbenzene	ND		0.0047	0.00095	mg/Kg	✳	02/02/25 11:02	02/10/25 16:38	1
1,3,5-Trimethylbenzene	ND		0.0047	0.00095	mg/Kg	✳	02/02/25 11:02	02/10/25 16:38	1
Toluene	ND		0.0047	0.0019	mg/Kg	✳	02/02/25 11:02	02/10/25 16:38	1
Xylenes, Total	ND		0.0047	0.00095	mg/Kg	✳	02/02/25 11:02	02/10/25 16:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	89		80 - 120	02/02/25 11:02	02/10/25 16:38	1
Toluene-d8 (Surr)	93		80 - 120	02/02/25 11:02	02/10/25 16:38	1
4-Bromofluorobenzene (Surr)	90		80 - 120	02/02/25 11:02	02/10/25 16:38	1
Dibromofluoromethane (Surr)	102		80 - 120	02/02/25 11:02	02/10/25 16:38	1

Client Sample ID: RR116-TA03
Date Collected: 02/02/25 11:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-6
Matrix: Solid
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0051	0.0010	mg/Kg	✳	02/02/25 11:22	02/10/25 16:57	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0010	mg/Kg	✳	02/02/25 11:22	02/10/25 16:57	1
Naphthalene	ND		5.1	1.0	ug/Kg	✳	02/02/25 11:22	02/10/25 16:57	1
Ethylbenzene	ND		0.0051	0.0010	mg/Kg	✳	02/02/25 11:22	02/10/25 16:57	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0010	mg/Kg	✳	02/02/25 11:22	02/10/25 16:57	1
Toluene	ND		0.0051	0.0020	mg/Kg	✳	02/02/25 11:22	02/10/25 16:57	1
Xylenes, Total	ND		0.0051	0.0010	mg/Kg	✳	02/02/25 11:22	02/10/25 16:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	84		80 - 120	02/02/25 11:22	02/10/25 16:57	1
Toluene-d8 (Surr)	94		80 - 120	02/02/25 11:22	02/10/25 16:57	1
4-Bromofluorobenzene (Surr)	93		80 - 120	02/02/25 11:22	02/10/25 16:57	1
Dibromofluoromethane (Surr)	99		80 - 120	02/02/25 11:22	02/10/25 16:57	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: RR116-TA04
Date Collected: 02/02/25 11:45
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-7
Matrix: Solid
Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0049	0.00097	mg/Kg	✳	02/02/25 11:45	02/10/25 17:17	1
1,2,4-Trimethylbenzene	ND		0.0049	0.00097	mg/Kg	✳	02/02/25 11:45	02/10/25 17:17	1
Naphthalene	ND		4.9	0.97	ug/Kg	✳	02/02/25 11:45	02/10/25 17:17	1
Ethylbenzene	ND		0.0049	0.00097	mg/Kg	✳	02/02/25 11:45	02/10/25 17:17	1
1,3,5-Trimethylbenzene	ND		0.0049	0.00097	mg/Kg	✳	02/02/25 11:45	02/10/25 17:17	1
Toluene	ND		0.0049	0.0019	mg/Kg	✳	02/02/25 11:45	02/10/25 17:17	1
Xylenes, Total	ND		0.0049	0.00097	mg/Kg	✳	02/02/25 11:45	02/10/25 17:17	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	87		80 - 120	02/02/25 11:45	02/10/25 17:17	1
Toluene-d8 (Surr)	94		80 - 120	02/02/25 11:45	02/10/25 17:17	1
4-Bromofluorobenzene (Surr)	95		80 - 120	02/02/25 11:45	02/10/25 17:17	1
Dibromofluoromethane (Surr)	102		80 - 120	02/02/25 11:45	02/10/25 17:17	1

Client Sample ID: RR116-TA05
Date Collected: 02/02/25 12:04
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-8
Matrix: Solid
Percent Solids: 87.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0053	0.0011	mg/Kg	✳	02/02/25 12:04	02/10/25 17:36	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0011	mg/Kg	✳	02/02/25 12:04	02/10/25 17:36	1
Naphthalene	ND		5.3	1.1	ug/Kg	✳	02/02/25 12:04	02/10/25 17:36	1
Ethylbenzene	ND		0.0053	0.0011	mg/Kg	✳	02/02/25 12:04	02/10/25 17:36	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0011	mg/Kg	✳	02/02/25 12:04	02/10/25 17:36	1
Toluene	ND		0.0053	0.0021	mg/Kg	✳	02/02/25 12:04	02/10/25 17:36	1
Xylenes, Total	ND		0.0053	0.0011	mg/Kg	✳	02/02/25 12:04	02/10/25 17:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	86		80 - 120	02/02/25 12:04	02/10/25 17:36	1
Toluene-d8 (Surr)	95		80 - 120	02/02/25 12:04	02/10/25 17:36	1
4-Bromofluorobenzene (Surr)	91		80 - 120	02/02/25 12:04	02/10/25 17:36	1
Dibromofluoromethane (Surr)	101		80 - 120	02/02/25 12:04	02/10/25 17:36	1

Client Sample ID: RR116-SA01
Date Collected: 02/02/25 12:28
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-9
Matrix: Solid
Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0048	0.00096	mg/Kg	✳	02/02/25 12:28	02/10/25 17:56	1
1,2,4-Trimethylbenzene	ND		0.0048	0.00096	mg/Kg	✳	02/02/25 12:28	02/10/25 17:56	1
Naphthalene	ND		4.8	0.96	ug/Kg	✳	02/02/25 12:28	02/10/25 17:56	1
Ethylbenzene	ND		0.0048	0.00096	mg/Kg	✳	02/02/25 12:28	02/10/25 17:56	1
1,3,5-Trimethylbenzene	ND		0.0048	0.00096	mg/Kg	✳	02/02/25 12:28	02/10/25 17:56	1
Toluene	ND		0.0048	0.0019	mg/Kg	✳	02/02/25 12:28	02/10/25 17:56	1
Xylenes, Total	ND		0.0048	0.00096	mg/Kg	✳	02/02/25 12:28	02/10/25 17:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		80 - 120	02/02/25 12:28	02/10/25 17:56	1
Toluene-d8 (Surr)	93		80 - 120	02/02/25 12:28	02/10/25 17:56	1
4-Bromofluorobenzene (Surr)	94		80 - 120	02/02/25 12:28	02/10/25 17:56	1
Dibromofluoromethane (Surr)	103		80 - 120	02/02/25 12:28	02/10/25 17:56	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: RR116-SA02
Date Collected: 02/02/25 13:23
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-10
Matrix: Solid
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0049	0.00097	mg/Kg	✱	02/02/25 13:23	02/10/25 18:15	1
1,2,4-Trimethylbenzene	ND		0.0049	0.00097	mg/Kg	✱	02/02/25 13:23	02/10/25 18:15	1
Naphthalene	ND		4.9	0.97	ug/Kg	✱	02/02/25 13:23	02/10/25 18:15	1
Ethylbenzene	ND		0.0049	0.00097	mg/Kg	✱	02/02/25 13:23	02/10/25 18:15	1
1,3,5-Trimethylbenzene	ND		0.0049	0.00097	mg/Kg	✱	02/02/25 13:23	02/10/25 18:15	1
Toluene	ND		0.0049	0.0019	mg/Kg	✱	02/02/25 13:23	02/10/25 18:15	1
Xylenes, Total	ND		0.0049	0.00097	mg/Kg	✱	02/02/25 13:23	02/10/25 18:15	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		80 - 120	02/02/25 13:23	02/10/25 18:15	1
Toluene-d8 (Surr)	94		80 - 120	02/02/25 13:23	02/10/25 18:15	1
4-Bromofluorobenzene (Surr)	92		80 - 120	02/02/25 13:23	02/10/25 18:15	1
Dibromofluoromethane (Surr)	100		80 - 120	02/02/25 13:23	02/10/25 18:15	1

Client Sample ID: RR116-SA03
Date Collected: 02/02/25 13:42
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-11
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0048	0.00096	mg/Kg	✱	02/02/25 13:42	02/10/25 18:35	1
1,2,4-Trimethylbenzene	ND		0.0048	0.00096	mg/Kg	✱	02/02/25 13:42	02/10/25 18:35	1
Naphthalene	ND		4.8	0.96	ug/Kg	✱	02/02/25 13:42	02/10/25 18:35	1
Ethylbenzene	ND		0.0048	0.00096	mg/Kg	✱	02/02/25 13:42	02/10/25 18:35	1
1,3,5-Trimethylbenzene	ND		0.0048	0.00096	mg/Kg	✱	02/02/25 13:42	02/10/25 18:35	1
Toluene	ND		0.0048	0.0019	mg/Kg	✱	02/02/25 13:42	02/10/25 18:35	1
Xylenes, Total	ND		0.0048	0.00096	mg/Kg	✱	02/02/25 13:42	02/10/25 18:35	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	88		80 - 120	02/02/25 13:42	02/10/25 18:35	1
Toluene-d8 (Surr)	93		80 - 120	02/02/25 13:42	02/10/25 18:35	1
4-Bromofluorobenzene (Surr)	93		80 - 120	02/02/25 13:42	02/10/25 18:35	1
Dibromofluoromethane (Surr)	102		80 - 120	02/02/25 13:42	02/10/25 18:35	1

Client Sample ID: RR116-SA04
Date Collected: 02/02/25 14:05
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-12
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0051	0.0010	mg/Kg	✱	02/02/25 14:05	02/10/25 18:54	1
1,2,4-Trimethylbenzene	ND		0.0051	0.0010	mg/Kg	✱	02/02/25 14:05	02/10/25 18:54	1
Naphthalene	ND		5.1	1.0	ug/Kg	✱	02/02/25 14:05	02/10/25 18:54	1
Ethylbenzene	ND		0.0051	0.0010	mg/Kg	✱	02/02/25 14:05	02/10/25 18:54	1
1,3,5-Trimethylbenzene	ND		0.0051	0.0010	mg/Kg	✱	02/02/25 14:05	02/10/25 18:54	1
Toluene	ND		0.0051	0.0021	mg/Kg	✱	02/02/25 14:05	02/10/25 18:54	1
Xylenes, Total	ND		0.0051	0.0010	mg/Kg	✱	02/02/25 14:05	02/10/25 18:54	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	85		80 - 120	02/02/25 14:05	02/10/25 18:54	1
Toluene-d8 (Surr)	91		80 - 120	02/02/25 14:05	02/10/25 18:54	1
4-Bromofluorobenzene (Surr)	92		80 - 120	02/02/25 14:05	02/10/25 18:54	1
Dibromofluoromethane (Surr)	100		80 - 120	02/02/25 14:05	02/10/25 18:54	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8260D - Volatile Organic Compounds by GC/MS

Client Sample ID: RR116-SA05
Date Collected: 02/02/25 14:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-13
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0050	0.0010	mg/Kg	✱	02/02/25 14:22	02/13/25 15:19	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0010	mg/Kg	✱	02/02/25 14:22	02/13/25 15:19	1
Naphthalene	ND		5.0	1.0	ug/Kg	✱	02/02/25 14:22	02/13/25 15:19	1
Ethylbenzene	ND		0.0050	0.0010	mg/Kg	✱	02/02/25 14:22	02/13/25 15:19	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0010	mg/Kg	✱	02/02/25 14:22	02/13/25 15:19	1
Toluene	ND		0.0050	0.0020	mg/Kg	✱	02/02/25 14:22	02/13/25 15:19	1
Xylenes, Total	ND		0.0050	0.0010	mg/Kg	✱	02/02/25 14:22	02/13/25 15:19	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		80 - 120	02/02/25 14:22	02/13/25 15:19	1
Toluene-d8 (Surr)	99		80 - 120	02/02/25 14:22	02/13/25 15:19	1
4-Bromofluorobenzene (Surr)	100		80 - 120	02/02/25 14:22	02/13/25 15:19	1
Dibromofluoromethane (Surr)	100		80 - 120	02/02/25 14:22	02/13/25 15:19	1

Client Sample ID: RR116-BG01
Date Collected: 02/02/25 14:56
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-14
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		0.0053	0.0011	mg/Kg	✱	02/02/25 14:56	02/13/25 15:38	1
1,2,4-Trimethylbenzene	ND		0.0053	0.0011	mg/Kg	✱	02/02/25 14:56	02/13/25 15:38	1
Naphthalene	ND		5.3	1.1	ug/Kg	✱	02/02/25 14:56	02/13/25 15:38	1
Ethylbenzene	ND		0.0053	0.0011	mg/Kg	✱	02/02/25 14:56	02/13/25 15:38	1
1,3,5-Trimethylbenzene	ND		0.0053	0.0011	mg/Kg	✱	02/02/25 14:56	02/13/25 15:38	1
Toluene	ND		0.0053	0.0021	mg/Kg	✱	02/02/25 14:56	02/13/25 15:38	1
Xylenes, Total	ND		0.0053	0.0011	mg/Kg	✱	02/02/25 14:56	02/13/25 15:38	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		80 - 120	02/02/25 14:56	02/13/25 15:38	1
Toluene-d8 (Surr)	98		80 - 120	02/02/25 14:56	02/13/25 15:38	1
4-Bromofluorobenzene (Surr)	101		80 - 120	02/02/25 14:56	02/13/25 15:38	1
Dibromofluoromethane (Surr)	100		80 - 120	02/02/25 14:56	02/13/25 15:38	1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: RR116-DCA01
Date Collected: 02/02/25 09:27
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-1
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
Benzo[a]anthracene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
Benzo[a]pyrene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
Benzo[b]fluoranthene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
Benzo[k]fluoranthene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
Chrysene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
Dibenz(a,h)anthracene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
Fluoranthene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
Fluorene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
2-Methylnaphthalene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
Acenaphthene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
Indeno[1,2,3-cd]pyrene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1
Naphthalene	ND		0.034	0.0069	mg/Kg	✱	02/13/25 12:33	02/14/25 13:02	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: RR116-DCA01

Date Collected: 02/02/25 09:27

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-1

Matrix: Solid

Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Pyrene	ND		0.034	0.0069	mg/Kg	☼	02/13/25 12:33	02/14/25 13:02	1
1-Methylnaphthalene	ND		0.034	0.0069	mg/Kg	☼	02/13/25 12:33	02/14/25 13:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	62		30 - 120				02/13/25 12:33	02/14/25 13:02	1
Nitrobenzene-d5	59		22 - 120				02/13/25 12:33	02/14/25 13:02	1
Terphenyl-d14	66		46 - 122				02/13/25 12:33	02/14/25 13:02	1
2-methylnaphthalene-d10	61		24 - 150				02/13/25 12:33	02/14/25 13:02	1
Fluoranthene-d10	65		45 - 121				02/13/25 12:33	02/14/25 13:02	1

Client Sample ID: RR116-DCA02

Date Collected: 02/02/25 09:50

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-2

Matrix: Solid

Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Benzo[a]anthracene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Benzo[a]pyrene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Benzo[b]fluoranthene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Benzo[k]fluoranthene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Chrysene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Dibenz(a,h)anthracene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Fluoranthene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Fluorene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
2-Methylnaphthalene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Acenaphthene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Indeno[1,2,3-cd]pyrene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Naphthalene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Pyrene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
1-Methylnaphthalene	ND		0.034	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 13:23	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		30 - 120				02/13/25 12:33	02/14/25 13:23	1
Nitrobenzene-d5	65		22 - 120				02/13/25 12:33	02/14/25 13:23	1
Terphenyl-d14	72		46 - 122				02/13/25 12:33	02/14/25 13:23	1
2-methylnaphthalene-d10	67		24 - 150				02/13/25 12:33	02/14/25 13:23	1
Fluoranthene-d10	71		45 - 121				02/13/25 12:33	02/14/25 13:23	1

Client Sample ID: RR116-DCA03

Date Collected: 02/02/25 10:13

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-3

Matrix: Solid

Percent Solids: 86.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.033	0.0066	mg/Kg	☼	02/13/25 12:33	02/14/25 13:44	1
Benzo[a]anthracene	ND		0.033	0.0066	mg/Kg	☼	02/13/25 12:33	02/14/25 13:44	1
Benzo[a]pyrene	ND		0.033	0.0066	mg/Kg	☼	02/13/25 12:33	02/14/25 13:44	1
Benzo[b]fluoranthene	ND		0.033	0.0066	mg/Kg	☼	02/13/25 12:33	02/14/25 13:44	1
Benzo[k]fluoranthene	ND		0.033	0.0066	mg/Kg	☼	02/13/25 12:33	02/14/25 13:44	1
Chrysene	ND		0.033	0.0066	mg/Kg	☼	02/13/25 12:33	02/14/25 13:44	1
Dibenz(a,h)anthracene	ND		0.033	0.0066	mg/Kg	☼	02/13/25 12:33	02/14/25 13:44	1
Fluoranthene	ND		0.033	0.0066	mg/Kg	☼	02/13/25 12:33	02/14/25 13:44	1
Fluorene	ND		0.033	0.0066	mg/Kg	☼	02/13/25 12:33	02/14/25 13:44	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: RR116-DCA03

Date Collected: 02/02/25 10:13

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-3

Matrix: Solid

Percent Solids: 86.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2-Methylnaphthalene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 13:44	1
Acenaphthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 13:44	1
Indeno[1,2,3-cd]pyrene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 13:44	1
Naphthalene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 13:44	1
Pyrene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 13:44	1
1-Methylnaphthalene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 13:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	75		30 - 120	02/13/25 12:33	02/14/25 13:44	1
Nitrobenzene-d5	67		22 - 120	02/13/25 12:33	02/14/25 13:44	1
Terphenyl-d14	81		46 - 122	02/13/25 12:33	02/14/25 13:44	1
2-methylnaphthalene-d10	70		24 - 150	02/13/25 12:33	02/14/25 13:44	1
Fluoranthene-d10	76		45 - 121	02/13/25 12:33	02/14/25 13:44	1

Client Sample ID: RR116-TA01

Date Collected: 02/02/25 10:34

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-4

Matrix: Solid

Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Benzo[a]anthracene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Benzo[a]pyrene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Benzo[b]fluoranthene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Benzo[k]fluoranthene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Chrysene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Dibenz(a,h)anthracene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Fluoranthene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Fluorene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
2-Methylnaphthalene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Acenaphthene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Indeno[1,2,3-cd]pyrene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Naphthalene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
Pyrene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1
1-Methylnaphthalene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 14:05	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	64		30 - 120	02/13/25 12:33	02/14/25 14:05	1
Nitrobenzene-d5	60		22 - 120	02/13/25 12:33	02/14/25 14:05	1
Terphenyl-d14	70		46 - 122	02/13/25 12:33	02/14/25 14:05	1
2-methylnaphthalene-d10	63		24 - 150	02/13/25 12:33	02/14/25 14:05	1
Fluoranthene-d10	70		45 - 121	02/13/25 12:33	02/14/25 14:05	1

Client Sample ID: RR116-TA02

Date Collected: 02/02/25 11:02

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-5

Matrix: Solid

Percent Solids: 85.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 14:25	1
Benzo[a]anthracene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 14:25	1
Benzo[a]pyrene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 14:25	1
Benzo[b]fluoranthene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 14:25	1
Benzo[k]fluoranthene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 14:25	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: RR116-TA02
Date Collected: 02/02/25 11:02
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-5
Matrix: Solid
Percent Solids: 85.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chrysene	ND		0.034	0.0068	mg/Kg	☼	02/13/25 12:33	02/14/25 14:25	1
Dibenz(a,h)anthracene	ND		0.034	0.0068	mg/Kg	☼	02/13/25 12:33	02/14/25 14:25	1
Fluoranthene	ND		0.034	0.0068	mg/Kg	☼	02/13/25 12:33	02/14/25 14:25	1
Fluorene	ND		0.034	0.0068	mg/Kg	☼	02/13/25 12:33	02/14/25 14:25	1
2-Methylnaphthalene	ND		0.034	0.0068	mg/Kg	☼	02/13/25 12:33	02/14/25 14:25	1
Acenaphthene	ND		0.034	0.0068	mg/Kg	☼	02/13/25 12:33	02/14/25 14:25	1
Indeno[1,2,3-cd]pyrene	ND		0.034	0.0068	mg/Kg	☼	02/13/25 12:33	02/14/25 14:25	1
Naphthalene	ND		0.034	0.0068	mg/Kg	☼	02/13/25 12:33	02/14/25 14:25	1
Pyrene	ND		0.034	0.0068	mg/Kg	☼	02/13/25 12:33	02/14/25 14:25	1
1-Methylnaphthalene	ND		0.034	0.0068	mg/Kg	☼	02/13/25 12:33	02/14/25 14:25	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	65		30 - 120				02/13/25 12:33	02/14/25 14:25	1
Nitrobenzene-d5	60		22 - 120				02/13/25 12:33	02/14/25 14:25	1
Terphenyl-d14	67		46 - 122				02/13/25 12:33	02/14/25 14:25	1
2-methylnaphthalene-d10	63		24 - 150				02/13/25 12:33	02/14/25 14:25	1
Fluoranthene-d10	67		45 - 121				02/13/25 12:33	02/14/25 14:25	1

Client Sample ID: RR116-TA03
Date Collected: 02/02/25 11:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-6
Matrix: Solid
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Benzo[a]anthracene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Benzo[a]pyrene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Benzo[b]fluoranthene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Benzo[k]fluoranthene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Chrysene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Dibenz(a,h)anthracene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Fluoranthene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Fluorene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
2-Methylnaphthalene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Acenaphthene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Indeno[1,2,3-cd]pyrene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Naphthalene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Pyrene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
1-Methylnaphthalene	ND		0.031	0.0063	mg/Kg	☼	02/13/25 12:33	02/14/25 14:46	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		30 - 120				02/13/25 12:33	02/14/25 14:46	1
Nitrobenzene-d5	62		22 - 120				02/13/25 12:33	02/14/25 14:46	1
Terphenyl-d14	72		46 - 122				02/13/25 12:33	02/14/25 14:46	1
2-methylnaphthalene-d10	63		24 - 150				02/13/25 12:33	02/14/25 14:46	1
Fluoranthene-d10	67		45 - 121				02/13/25 12:33	02/14/25 14:46	1

Client Sample ID: RR116-TA04
Date Collected: 02/02/25 11:45
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-7
Matrix: Solid
Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.033	0.0067	mg/Kg	☼	02/13/25 12:33	02/14/25 15:07	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Client Sample ID: RR116-TA04
Date Collected: 02/02/25 11:45
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-7
Matrix: Solid
Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzo[a]anthracene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Benzo[a]pyrene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Benzo[b]fluoranthene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Benzo[k]fluoranthene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Chrysene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Dibenz(a,h)anthracene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Fluoranthene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Fluorene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
2-Methylnaphthalene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Acenaphthene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Indeno[1,2,3-cd]pyrene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Naphthalene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Pyrene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
1-Methylnaphthalene	ND		0.033	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 15:07	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		30 - 120				02/13/25 12:33	02/14/25 15:07	1
Nitrobenzene-d5	60		22 - 120				02/13/25 12:33	02/14/25 15:07	1
Terphenyl-d14	69		46 - 122				02/13/25 12:33	02/14/25 15:07	1
2-methylnaphthalene-d10	62		24 - 150				02/13/25 12:33	02/14/25 15:07	1
Fluoranthene-d10	68		45 - 121				02/13/25 12:33	02/14/25 15:07	1

Client Sample ID: RR116-TA05
Date Collected: 02/02/25 12:04
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-8
Matrix: Solid
Percent Solids: 87.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Benzo[a]anthracene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Benzo[a]pyrene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Benzo[b]fluoranthene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Benzo[k]fluoranthene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Chrysene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Dibenz(a,h)anthracene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Fluoranthene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Fluorene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
2-Methylnaphthalene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Acenaphthene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Indeno[1,2,3-cd]pyrene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Naphthalene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Pyrene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
1-Methylnaphthalene	ND		0.032	0.0065	mg/Kg	✳	02/13/25 12:33	02/14/25 15:27	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	134	S1+	30 - 120				02/13/25 12:33	02/14/25 15:27	1
Nitrobenzene-d5	93		22 - 120				02/13/25 12:33	02/14/25 15:27	1
Terphenyl-d14	90		46 - 122				02/13/25 12:33	02/14/25 15:27	1
2-methylnaphthalene-d10	70		24 - 150				02/13/25 12:33	02/14/25 15:27	1
Fluoranthene-d10	70		45 - 121				02/13/25 12:33	02/14/25 15:27	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: RR116-SA01
Date Collected: 02/02/25 12:28
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-9
Matrix: Solid
Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Benzo[a]anthracene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Benzo[a]pyrene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Benzo[b]fluoranthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Benzo[k]fluoranthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Chrysene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Dibenz(a,h)anthracene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Fluoranthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Fluorene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
2-Methylnaphthalene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Acenaphthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Indeno[1,2,3-cd]pyrene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Naphthalene	0.0071	J	0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Pyrene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
1-Methylnaphthalene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 15:48	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	74		30 - 120				02/13/25 12:33	02/14/25 15:48	1
Nitrobenzene-d5	66		22 - 120				02/13/25 12:33	02/14/25 15:48	1
Terphenyl-d14	73		46 - 122				02/13/25 12:33	02/14/25 15:48	1
2-methylnaphthalene-d10	65		24 - 150				02/13/25 12:33	02/14/25 15:48	1
Fluoranthene-d10	68		45 - 121				02/13/25 12:33	02/14/25 15:48	1

Client Sample ID: RR116-SA02
Date Collected: 02/02/25 13:23
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-10
Matrix: Solid
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Benzo[a]anthracene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Benzo[a]pyrene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Benzo[b]fluoranthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Benzo[k]fluoranthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Chrysene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Dibenz(a,h)anthracene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Fluoranthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Fluorene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
2-Methylnaphthalene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Acenaphthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Indeno[1,2,3-cd]pyrene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Naphthalene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Pyrene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
1-Methylnaphthalene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 16:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	72		30 - 120				02/13/25 12:33	02/14/25 16:09	1
Nitrobenzene-d5	64		22 - 120				02/13/25 12:33	02/14/25 16:09	1
Terphenyl-d14	72		46 - 122				02/13/25 12:33	02/14/25 16:09	1
2-methylnaphthalene-d10	64		24 - 150				02/13/25 12:33	02/14/25 16:09	1
Fluoranthene-d10	68		45 - 121				02/13/25 12:33	02/14/25 16:09	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: RR116-SA03
Date Collected: 02/02/25 13:42
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-11
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Benzo[a]anthracene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Benzo[a]pyrene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Benzo[b]fluoranthene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Benzo[k]fluoranthene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Chrysene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Dibenz(a,h)anthracene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Fluoranthene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Fluorene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
2-Methylnaphthalene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Acenaphthene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Indeno[1,2,3-cd]pyrene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Naphthalene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Pyrene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
1-Methylnaphthalene	ND		0.034	0.0068	mg/Kg	✳	02/13/25 12:33	02/14/25 16:30	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	139	S1+	30 - 120				02/13/25 12:33	02/14/25 16:30	1
Nitrobenzene-d5	86		22 - 120				02/13/25 12:33	02/14/25 16:30	1
Terphenyl-d14	123	S1+	46 - 122				02/13/25 12:33	02/14/25 16:30	1
2-methylnaphthalene-d10	72		24 - 150				02/13/25 12:33	02/14/25 16:30	1
Fluoranthene-d10	80		45 - 121				02/13/25 12:33	02/14/25 16:30	1

Client Sample ID: RR116-SA04
Date Collected: 02/02/25 14:05
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-12
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Benzo[a]anthracene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Benzo[a]pyrene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Benzo[b]fluoranthene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Benzo[k]fluoranthene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Chrysene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Dibenz(a,h)anthracene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Fluoranthene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Fluorene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
2-Methylnaphthalene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Acenaphthene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Indeno[1,2,3-cd]pyrene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Naphthalene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Pyrene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
1-Methylnaphthalene	ND		0.034	0.0067	mg/Kg	✳	02/13/25 12:33	02/14/25 16:51	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	95		30 - 120				02/13/25 12:33	02/14/25 16:51	1
Nitrobenzene-d5	78		22 - 120				02/13/25 12:33	02/14/25 16:51	1
Terphenyl-d14	85		46 - 122				02/13/25 12:33	02/14/25 16:51	1
2-methylnaphthalene-d10	76		24 - 150				02/13/25 12:33	02/14/25 16:51	1
Fluoranthene-d10	81		45 - 121				02/13/25 12:33	02/14/25 16:51	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Client Sample ID: RR116-SA05
Date Collected: 02/02/25 14:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-13
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Benzo[a]anthracene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Benzo[a]pyrene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Benzo[b]fluoranthene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Benzo[k]fluoranthene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Chrysene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Dibenz(a,h)anthracene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Fluoranthene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Fluorene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
2-Methylnaphthalene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Acenaphthene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Indeno[1,2,3-cd]pyrene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Naphthalene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Pyrene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
1-Methylnaphthalene	ND		0.032	0.0063	mg/Kg	✳	02/13/25 12:33	02/14/25 17:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	68		30 - 120				02/13/25 12:33	02/14/25 17:11	1
Nitrobenzene-d5	65		22 - 120				02/13/25 12:33	02/14/25 17:11	1
Terphenyl-d14	73		46 - 122				02/13/25 12:33	02/14/25 17:11	1
2-methylnaphthalene-d10	68		24 - 150				02/13/25 12:33	02/14/25 17:11	1
Fluoranthene-d10	74		45 - 121				02/13/25 12:33	02/14/25 17:11	1

Client Sample ID: RR116-BG01
Date Collected: 02/02/25 14:56
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-14
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Benzo[a]anthracene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Benzo[a]pyrene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Benzo[b]fluoranthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Benzo[k]fluoranthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Chrysene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Dibenz(a,h)anthracene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Fluoranthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Fluorene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
2-Methylnaphthalene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Acenaphthene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Indeno[1,2,3-cd]pyrene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Naphthalene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Pyrene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
1-Methylnaphthalene	ND		0.033	0.0066	mg/Kg	✳	02/13/25 12:33	02/14/25 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	71		30 - 120				02/13/25 12:33	02/14/25 17:32	1
Nitrobenzene-d5	65		22 - 120				02/13/25 12:33	02/14/25 17:32	1
Terphenyl-d14	74		46 - 122				02/13/25 12:33	02/14/25 17:32	1
2-methylnaphthalene-d10	69		24 - 150				02/13/25 12:33	02/14/25 17:32	1
Fluoranthene-d10	74		45 - 121				02/13/25 12:33	02/14/25 17:32	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Client Sample ID: RR116-DCA01

Date Collected: 02/02/25 09:27

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-1

Matrix: Solid

Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.0	0.76	mg/Kg	☼	02/02/25 09:27	02/07/25 17:17	1
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	112		80 - 120	Prepared	Analyzed	Dil Fac			
				02/02/25 09:27	02/07/25 17:17	1			

Client Sample ID: RR116-DCA02

Date Collected: 02/02/25 09:50

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-2

Matrix: Solid

Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.1	0.77	mg/Kg	☼	02/02/25 09:50	02/07/25 17:39	1
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	110		80 - 120	Prepared	Analyzed	Dil Fac			
				02/02/25 09:50	02/07/25 17:39	1			

Client Sample ID: RR116-DCA03

Date Collected: 02/02/25 10:13

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-3

Matrix: Solid

Percent Solids: 86.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.0	0.77	mg/Kg	☼	02/02/25 10:13	02/12/25 21:17	1
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	98		80 - 120	Prepared	Analyzed	Dil Fac			
				02/02/25 10:13	02/12/25 21:17	1			

Client Sample ID: RR116-TA01

Date Collected: 02/02/25 10:34

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-4

Matrix: Solid

Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.0	0.74	mg/Kg	☼	02/02/25 10:34	02/12/25 21:39	1
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	97		80 - 120	Prepared	Analyzed	Dil Fac			
				02/02/25 10:34	02/12/25 21:39	1			

Client Sample ID: RR116-TA02

Date Collected: 02/02/25 11:02

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-5

Matrix: Solid

Percent Solids: 85.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.0	0.76	mg/Kg	☼	02/02/25 11:02	02/11/25 23:12	1
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	99		80 - 120	Prepared	Analyzed	Dil Fac			
				02/02/25 11:02	02/11/25 23:12	1			

Client Sample ID: RR116-TA03

Date Collected: 02/02/25 11:22

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-6

Matrix: Solid

Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.1	0.80	mg/Kg	☼	02/02/25 11:22	02/11/25 23:33	1
Surrogate	%Recovery	Qualifier	Limits						
4-Bromofluorobenzene (Surr)	100		80 - 120	Prepared	Analyzed	Dil Fac			
				02/02/25 11:22	02/11/25 23:33	1			

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Client Sample ID: RR116-TA04
Date Collected: 02/02/25 11:45
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-7
Matrix: Solid
Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.0	0.75	mg/Kg	☼	02/02/25 11:45	02/11/25 23:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120				02/02/25 11:45	02/11/25 23:55	1

Client Sample ID: RR116-TA05
Date Collected: 02/02/25 12:04
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-8
Matrix: Solid
Percent Solids: 87.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.2	0.84	mg/Kg	☼	02/02/25 12:04	02/12/25 00:16	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		80 - 120				02/02/25 12:04	02/12/25 00:16	1

Client Sample ID: RR116-SA01
Date Collected: 02/02/25 12:28
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-9
Matrix: Solid
Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.1	0.78	mg/Kg	☼	02/02/25 12:28	02/12/25 00:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120				02/02/25 12:28	02/12/25 00:38	1

Client Sample ID: RR116-SA02
Date Collected: 02/02/25 13:23
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-10
Matrix: Solid
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.1	0.77	mg/Kg	☼	02/02/25 13:23	02/12/25 00:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	96		80 - 120				02/02/25 13:23	02/12/25 00:59	1

Client Sample ID: RR116-SA03
Date Collected: 02/02/25 13:42
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-11
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.0	0.75	mg/Kg	☼	02/02/25 13:42	02/12/25 01:21	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	98		80 - 120				02/02/25 13:42	02/12/25 01:21	1

Client Sample ID: RR116-SA04
Date Collected: 02/02/25 14:05
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-12
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.0	0.77	mg/Kg	☼	02/02/25 14:05	02/12/25 01:42	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		80 - 120				02/02/25 14:05	02/12/25 01:42	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8015D - Gasoline Range Organics (GRO) (GC)

Client Sample ID: RR116-SA05
Date Collected: 02/02/25 14:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-13
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.3	0.87	mg/Kg	☼	02/02/25 14:22	02/13/25 19:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		80 - 120				02/02/25 14:22	02/13/25 19:58	1

Client Sample ID: RR116-BG01
Date Collected: 02/02/25 14:56
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-14
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
GRO (C6-C10)	ND		2.3	0.86	mg/Kg	☼	02/02/25 14:56	02/13/25 20:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	89		80 - 120				02/02/25 14:56	02/13/25 20:20	1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Client Sample ID: RR116-DCA01
Date Collected: 02/02/25 09:27
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-1
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		32	13	mg/Kg	☼	02/14/25 06:28	02/16/25 13:20	1
ORO (C20-C38)	18	J	32	13	mg/Kg	☼	02/14/25 06:28	02/16/25 13:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	77		48 - 139				02/14/25 06:28	02/16/25 13:20	1
n-Octacosane (Surr)	74		33 - 136				02/14/25 06:28	02/16/25 13:20	1

Client Sample ID: RR116-DCA02
Date Collected: 02/02/25 09:50
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-2
Matrix: Solid
Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		34	14	mg/Kg	☼	02/14/25 06:28	02/16/25 13:40	1
ORO (C20-C38)	ND		34	14	mg/Kg	☼	02/14/25 06:28	02/16/25 13:40	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	72		48 - 139				02/14/25 06:28	02/16/25 13:40	1
n-Octacosane (Surr)	73		33 - 136				02/14/25 06:28	02/16/25 13:40	1

Client Sample ID: RR116-DCA03
Date Collected: 02/02/25 10:13
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-3
Matrix: Solid
Percent Solids: 86.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		33	13	mg/Kg	☼	02/14/25 06:28	02/16/25 14:39	1
ORO (C20-C38)	22	J	33	13	mg/Kg	☼	02/14/25 06:28	02/16/25 14:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	81		48 - 139				02/14/25 06:28	02/16/25 14:39	1
n-Octacosane (Surr)	74		33 - 136				02/14/25 06:28	02/16/25 14:39	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Client Sample ID: RR116-TA01
Date Collected: 02/02/25 10:34
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-4
Matrix: Solid
Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		30	12	mg/Kg	☼	02/14/25 06:28	02/16/25 14:59	1
ORO (C20-C38)	15	J	30	12	mg/Kg	☼	02/14/25 06:28	02/16/25 14:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	73		48 - 139				02/14/25 06:28	02/16/25 14:59	1
<i>n</i> -Octacosane (Surr)	66		33 - 136				02/14/25 06:28	02/16/25 14:59	1

Client Sample ID: RR116-TA02
Date Collected: 02/02/25 11:02
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-5
Matrix: Solid
Percent Solids: 85.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		33	13	mg/Kg	☼	02/14/25 06:28	02/16/25 15:19	1
ORO (C20-C38)	23	J	33	13	mg/Kg	☼	02/14/25 06:28	02/16/25 15:19	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	73		48 - 139				02/14/25 06:28	02/16/25 15:19	1
<i>n</i> -Octacosane (Surr)	70		33 - 136				02/14/25 06:28	02/16/25 15:19	1

Client Sample ID: RR116-TA03
Date Collected: 02/02/25 11:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-6
Matrix: Solid
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		31	12	mg/Kg	☼	02/14/25 06:28	02/16/25 15:39	1
ORO (C20-C38)	21	J	31	12	mg/Kg	☼	02/14/25 06:28	02/16/25 15:39	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	71		48 - 139				02/14/25 06:28	02/16/25 15:39	1
<i>n</i> -Octacosane (Surr)	62		33 - 136				02/14/25 06:28	02/16/25 15:39	1

Client Sample ID: RR116-TA04
Date Collected: 02/02/25 11:45
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-7
Matrix: Solid
Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	15	J	34	13	mg/Kg	☼	02/14/25 06:28	02/16/25 15:59	1
ORO (C20-C38)	38		34	13	mg/Kg	☼	02/14/25 06:28	02/16/25 15:59	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	71		48 - 139				02/14/25 06:28	02/16/25 15:59	1
<i>n</i> -Octacosane (Surr)	61		33 - 136				02/14/25 06:28	02/16/25 15:59	1

Client Sample ID: RR116-TA05
Date Collected: 02/02/25 12:04
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-8
Matrix: Solid
Percent Solids: 87.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		32	13	mg/Kg	☼	02/14/25 06:28	02/16/25 16:18	1
ORO (C20-C38)	16	J	32	13	mg/Kg	☼	02/14/25 06:28	02/16/25 16:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	78		48 - 139				02/14/25 06:28	02/16/25 16:18	1
<i>n</i> -Octacosane (Surr)	68		33 - 136				02/14/25 06:28	02/16/25 16:18	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Client Sample ID: RR116-SA01
Date Collected: 02/02/25 12:28
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-9
Matrix: Solid
Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		32	13	mg/Kg	☼	02/14/25 06:28	02/16/25 16:38	1
ORO (C20-C38)	21	J	32	13	mg/Kg	☼	02/14/25 06:28	02/16/25 16:38	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	79		48 - 139				02/14/25 06:28	02/16/25 16:38	1
<i>n</i> -Octacosane (Surr)	53		33 - 136				02/14/25 06:28	02/16/25 16:38	1

Client Sample ID: RR116-SA02
Date Collected: 02/02/25 13:23
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-10
Matrix: Solid
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		33	13	mg/Kg	☼	02/14/25 06:28	02/16/25 16:58	1
ORO (C20-C38)	18	J	33	13	mg/Kg	☼	02/14/25 06:28	02/16/25 16:58	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	82		48 - 139				02/14/25 06:28	02/16/25 16:58	1
<i>n</i> -Octacosane (Surr)	69		33 - 136				02/14/25 06:28	02/16/25 16:58	1

Client Sample ID: RR116-SA03
Date Collected: 02/02/25 13:42
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-11
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	14	J	35	14	mg/Kg	☼	02/14/25 06:28	02/16/25 17:18	1
ORO (C20-C38)	25	J	35	14	mg/Kg	☼	02/14/25 06:28	02/16/25 17:18	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	85		48 - 139				02/14/25 06:28	02/16/25 17:18	1
<i>n</i> -Octacosane (Surr)	76		33 - 136				02/14/25 06:28	02/16/25 17:18	1

Client Sample ID: RR116-SA04
Date Collected: 02/02/25 14:05
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-12
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		29	12	mg/Kg	☼	02/14/25 06:28	02/16/25 17:37	1
ORO (C20-C38)	17	J	29	12	mg/Kg	☼	02/14/25 06:28	02/16/25 17:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	77		48 - 139				02/14/25 06:28	02/16/25 17:37	1
<i>n</i> -Octacosane (Surr)	71		33 - 136				02/14/25 06:28	02/16/25 17:37	1

Client Sample ID: RR116-SA05
Date Collected: 02/02/25 14:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-13
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	14	J	34	14	mg/Kg	☼	02/13/25 11:31	02/14/25 22:52	1
ORO (C20-C38)	34		34	14	mg/Kg	☼	02/13/25 11:31	02/14/25 22:52	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	84		48 - 139				02/13/25 11:31	02/14/25 22:52	1
<i>n</i> -Octacosane (Surr)	88		33 - 136				02/13/25 11:31	02/14/25 22:52	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 8015D - Diesel Range Organics (DRO) (GC)

Client Sample ID: RR116-BG01
Date Collected: 02/02/25 14:56
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-14
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		35	14	mg/Kg	☼	02/13/25 11:31	02/14/25 23:12	1
ORO (C20-C38)	23	J	35	14	mg/Kg	☼	02/13/25 11:31	02/14/25 23:12	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
<i>o</i> -Terphenyl (Surr)	81		48 - 139				02/13/25 11:31	02/14/25 23:12	1
<i>n</i> -Octacosane (Surr)	86		33 - 136				02/13/25 11:31	02/14/25 23:12	1

Method: LA 29B SAR - Sodium Adsorption Ratio - Soluble

Client Sample ID: RR116-DCA01
Date Collected: 02/02/25 09:27
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-1
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.59		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-DCA02
Date Collected: 02/02/25 09:50
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-2
Matrix: Solid
Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	7.3		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-DCA03
Date Collected: 02/02/25 10:13
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-3
Matrix: Solid
Percent Solids: 86.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.82		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-TA01
Date Collected: 02/02/25 10:34
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-4
Matrix: Solid
Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.84		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-TA02
Date Collected: 02/02/25 11:02
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-5
Matrix: Solid
Percent Solids: 85.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.99		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-TA03
Date Collected: 02/02/25 11:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-6
Matrix: Solid
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	4.0		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-TA04
Date Collected: 02/02/25 11:45
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-7
Matrix: Solid
Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	1.1		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: LA 29B SAR - Sodium Adsorption Ratio - Soluble

Client Sample ID: RR116-TA05
Date Collected: 02/02/25 12:04
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-8
Matrix: Solid
Percent Solids: 87.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.34		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-SA01
Date Collected: 02/02/25 12:28
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-9
Matrix: Solid
Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.21		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-SA02
Date Collected: 02/02/25 13:23
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-10
Matrix: Solid
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.16		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-SA03
Date Collected: 02/02/25 13:42
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-11
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	2.8		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-SA04
Date Collected: 02/02/25 14:05
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-12
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.23		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-SA05
Date Collected: 02/02/25 14:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-13
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	0.95		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Client Sample ID: RR116-BG01
Date Collected: 02/02/25 14:56
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-14
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium Adsorption Ratio	6.4		0.10	0.10	NONE		02/07/25 14:37	02/18/25 17:32	1

Method: SW846 6010D - Metals (ICP)

Client Sample ID: RR116-DCA01
Date Collected: 02/02/25 09:27
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-1
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11		8.8	4.4	mg/Kg	⊛	02/04/25 08:14	02/05/25 02:02	1

Client Sample ID: RR116-DCA02
Date Collected: 02/02/25 09:50
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-2
Matrix: Solid
Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	13		9.1	4.6	mg/Kg	⊛	02/04/25 08:14	02/05/25 02:21	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 6010D - Metals (ICP)

Client Sample ID: RR116-DCA03							Lab Sample ID: 280-202506-3			
Date Collected: 02/02/25 10:13							Matrix: Solid			
Date Received: 02/03/25 13:20							Percent Solids: 86.2			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Boron	12		8.6	4.3	mg/Kg	☼	02/04/25 08:14	02/05/25 02:25	1	
Client Sample ID: RR116-TA01							Lab Sample ID: 280-202506-4			
Date Collected: 02/02/25 10:34							Matrix: Solid			
Date Received: 02/03/25 13:20							Percent Solids: 84.3			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Boron	13		8.6	4.3	mg/Kg	☼	02/04/25 08:14	02/05/25 02:29	1	
Client Sample ID: RR116-TA02							Lab Sample ID: 280-202506-5			
Date Collected: 02/02/25 11:02							Matrix: Solid			
Date Received: 02/03/25 13:20							Percent Solids: 85.1			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Boron	12		9.5	4.7	mg/Kg	☼	02/04/25 08:14	02/05/25 02:44	1	
Client Sample ID: RR116-TA03							Lab Sample ID: 280-202506-6			
Date Collected: 02/02/25 11:22							Matrix: Solid			
Date Received: 02/03/25 13:20							Percent Solids: 85.5			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Boron	12		10	5.1	mg/Kg	☼	02/04/25 08:14	02/05/25 02:48	1	
Client Sample ID: RR116-TA04							Lab Sample ID: 280-202506-7			
Date Collected: 02/02/25 11:45							Matrix: Solid			
Date Received: 02/03/25 13:20							Percent Solids: 84.9			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Boron	12		8.9	4.4	mg/Kg	☼	02/04/25 08:14	02/05/25 02:52	1	
Client Sample ID: RR116-TA05							Lab Sample ID: 280-202506-8			
Date Collected: 02/02/25 12:04							Matrix: Solid			
Date Received: 02/03/25 13:20							Percent Solids: 87.7			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Boron	11		8.4	4.2	mg/Kg	☼	02/04/25 08:14	02/05/25 02:56	1	
Client Sample ID: RR116-SA01							Lab Sample ID: 280-202506-9			
Date Collected: 02/02/25 12:28							Matrix: Solid			
Date Received: 02/03/25 13:20							Percent Solids: 87.9			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Boron	8.0	J	8.4	4.2	mg/Kg	☼	02/04/25 08:14	02/05/25 02:59	1	
Client Sample ID: RR116-SA02							Lab Sample ID: 280-202506-10			
Date Collected: 02/02/25 13:23							Matrix: Solid			
Date Received: 02/03/25 13:20							Percent Solids: 85.6			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Boron	8.7		8.5	4.2	mg/Kg	☼	02/04/25 08:14	02/05/25 03:03	1	
Client Sample ID: RR116-SA03							Lab Sample ID: 280-202506-11			
Date Collected: 02/02/25 13:42							Matrix: Solid			
Date Received: 02/03/25 13:20							Percent Solids: 83.0			
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Boron	11		8.7	4.3	mg/Kg	☼	02/04/25 08:14	02/05/25 03:07	1	

Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 6010D - Metals (ICP)

Client Sample ID: RR116-SA04
Date Collected: 02/02/25 14:05
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-12
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	8.4		8.3	4.1	mg/Kg	☆	02/04/25 08:14	02/05/25 03:11	1

Client Sample ID: RR116-SA05
Date Collected: 02/02/25 14:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-13
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	11		10	5.0	mg/Kg	☆	02/04/25 08:14	02/05/25 03:15	1

Client Sample ID: RR116-BG01
Date Collected: 02/02/25 14:56
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-14
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	12		10	5.0	mg/Kg	☆	02/04/25 08:14	02/05/25 03:18	1

Method: SW846 6020B - Metals (ICP/MS)

Client Sample ID: RR116-DCA01
Date Collected: 02/02/25 09:27
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-1
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.048	J	0.10	0.026	mg/Kg	☆	02/04/25 08:14	02/04/25 18:55	1
Arsenic	6.2		0.21	0.051	mg/Kg	☆	02/04/25 08:14	02/04/25 18:55	1
Barium	350		0.41	0.15	mg/Kg	☆	02/04/25 08:14	02/04/25 18:55	1
Cadmium	0.27		0.10	0.026	mg/Kg	☆	02/04/25 08:14	02/04/25 18:55	1
Chromium	13		0.62	0.26	mg/Kg	☆	02/04/25 08:14	02/04/25 18:55	1
Copper	11		0.62	0.31	mg/Kg	☆	02/04/25 08:14	02/04/25 18:55	1
Nickel	11		0.62	0.26	mg/Kg	☆	02/04/25 08:14	02/04/25 18:55	1
Lead	6.9		0.41	0.15	mg/Kg	☆	02/04/25 08:14	02/04/25 18:55	1
Selenium	0.32		0.21	0.051	mg/Kg	☆	02/04/25 08:14	02/04/25 18:55	1
Zinc	31		2.1	1.0	mg/Kg	☆	02/04/25 08:14	02/04/25 18:55	1

Client Sample ID: RR116-DCA02
Date Collected: 02/02/25 09:50
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-2
Matrix: Solid
Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.055	J	0.091	0.023	mg/Kg	☆	02/04/25 08:14	02/04/25 19:06	1
Arsenic	7.1		0.18	0.046	mg/Kg	☆	02/04/25 08:14	02/04/25 19:06	1
Barium	230		0.36	0.14	mg/Kg	☆	02/04/25 08:14	02/04/25 19:06	1
Cadmium	0.33		0.091	0.023	mg/Kg	☆	02/04/25 08:14	02/04/25 19:06	1
Chromium	19		0.55	0.23	mg/Kg	☆	02/04/25 08:14	02/04/25 19:06	1
Copper	15		0.55	0.27	mg/Kg	☆	02/04/25 08:14	02/04/25 19:06	1
Nickel	16		0.55	0.23	mg/Kg	☆	02/04/25 08:14	02/04/25 19:06	1
Lead	10		0.36	0.14	mg/Kg	☆	02/04/25 08:14	02/04/25 19:06	1
Selenium	0.56		0.18	0.046	mg/Kg	☆	02/04/25 08:14	02/04/25 19:06	1
Zinc	50		1.8	0.91	mg/Kg	☆	02/04/25 08:14	02/04/25 19:06	1

Client Sample ID: RR116-DCA03
Date Collected: 02/02/25 10:13
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-3
Matrix: Solid
Percent Solids: 86.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.060	J	0.086	0.021	mg/Kg	☆	02/04/25 08:14	02/04/25 19:09	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Client Sample ID: RR116-DCA03

Date Collected: 02/02/25 10:13

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-3

Matrix: Solid

Percent Solids: 86.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	7.3		0.17	0.043	mg/Kg	☼	02/04/25 08:14	02/04/25 19:09	1
Barium	260		0.34	0.13	mg/Kg	☼	02/04/25 08:14	02/04/25 19:09	1
Cadmium	0.35		0.086	0.021	mg/Kg	☼	02/04/25 08:14	02/04/25 19:09	1
Chromium	22		0.51	0.21	mg/Kg	☼	02/04/25 08:14	02/04/25 19:09	1
Copper	17		0.51	0.26	mg/Kg	☼	02/04/25 08:14	02/04/25 19:09	1
Nickel	17		0.51	0.21	mg/Kg	☼	02/04/25 08:14	02/04/25 19:09	1
Lead	12		0.34	0.13	mg/Kg	☼	02/04/25 08:14	02/04/25 19:09	1
Selenium	0.41		0.17	0.043	mg/Kg	☼	02/04/25 08:14	02/04/25 19:09	1
Zinc	57		1.7	0.86	mg/Kg	☼	02/04/25 08:14	02/04/25 19:09	1

Client Sample ID: RR116-TA01

Date Collected: 02/02/25 10:34

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-4

Matrix: Solid

Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.046	J	0.086	0.021	mg/Kg	☼	02/04/25 08:14	02/04/25 19:16	1
Arsenic	6.5		0.17	0.043	mg/Kg	☼	02/04/25 08:14	02/04/25 19:16	1
Barium	230		0.34	0.13	mg/Kg	☼	02/04/25 08:14	02/04/25 19:16	1
Cadmium	0.29		0.086	0.021	mg/Kg	☼	02/04/25 08:14	02/04/25 19:16	1
Chromium	18		0.51	0.21	mg/Kg	☼	02/04/25 08:14	02/04/25 19:16	1
Copper	14		0.51	0.26	mg/Kg	☼	02/04/25 08:14	02/04/25 19:16	1
Nickel	14		0.51	0.21	mg/Kg	☼	02/04/25 08:14	02/04/25 19:16	1
Lead	10		0.34	0.13	mg/Kg	☼	02/04/25 08:14	02/04/25 19:16	1
Selenium	0.55		0.17	0.043	mg/Kg	☼	02/04/25 08:14	02/04/25 19:16	1
Zinc	46		1.7	0.86	mg/Kg	☼	02/04/25 08:14	02/04/25 19:16	1

Client Sample ID: RR116-TA02

Date Collected: 02/02/25 11:02

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-5

Matrix: Solid

Percent Solids: 85.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.042	J	0.095	0.024	mg/Kg	☼	02/04/25 08:14	02/04/25 19:18	1
Arsenic	6.4		0.19	0.047	mg/Kg	☼	02/04/25 08:14	02/04/25 19:18	1
Barium	250		0.38	0.14	mg/Kg	☼	02/04/25 08:14	02/04/25 19:18	1
Cadmium	0.25		0.095	0.024	mg/Kg	☼	02/04/25 08:14	02/04/25 19:18	1
Chromium	17		0.57	0.24	mg/Kg	☼	02/04/25 08:14	02/04/25 19:18	1
Copper	14		0.57	0.28	mg/Kg	☼	02/04/25 08:14	02/04/25 19:18	1
Nickel	14		0.57	0.24	mg/Kg	☼	02/04/25 08:14	02/04/25 19:18	1
Lead	9.9		0.38	0.14	mg/Kg	☼	02/04/25 08:14	02/04/25 19:18	1
Selenium	0.44		0.19	0.047	mg/Kg	☼	02/04/25 08:14	02/04/25 19:18	1
Zinc	45		1.9	0.95	mg/Kg	☼	02/04/25 08:14	02/04/25 19:18	1

Client Sample ID: RR116-TA03

Date Collected: 02/02/25 11:22

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-6

Matrix: Solid

Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.059	J	0.10	0.026	mg/Kg	☼	02/04/25 08:14	02/04/25 19:20	1
Arsenic	7.4		0.20	0.051	mg/Kg	☼	02/04/25 08:14	02/04/25 19:20	1
Barium	240		0.41	0.15	mg/Kg	☼	02/04/25 08:14	02/04/25 19:20	1
Cadmium	0.34		0.10	0.026	mg/Kg	☼	02/04/25 08:14	02/04/25 19:20	1
Chromium	23		0.61	0.26	mg/Kg	☼	02/04/25 08:14	02/04/25 19:20	1
Copper	18		0.61	0.31	mg/Kg	☼	02/04/25 08:14	02/04/25 19:20	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Client Sample ID: RR116-TA03
Date Collected: 02/02/25 11:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-6
Matrix: Solid
Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nickel	17		0.61	0.26	mg/Kg	✳	02/04/25 08:14	02/04/25 19:20	1
Lead	12		0.41	0.15	mg/Kg	✳	02/04/25 08:14	02/04/25 19:20	1
Selenium	0.48		0.20	0.051	mg/Kg	✳	02/04/25 08:14	02/04/25 19:20	1
Zinc	61		2.0	1.0	mg/Kg	✳	02/04/25 08:14	02/04/25 19:20	1

Client Sample ID: RR116-TA04
Date Collected: 02/02/25 11:45
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-7
Matrix: Solid
Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.038	J	0.089	0.022	mg/Kg	✳	02/04/25 08:14	02/04/25 19:23	1
Arsenic	6.0		0.18	0.044	mg/Kg	✳	02/04/25 08:14	02/04/25 19:23	1
Barium	250		0.35	0.13	mg/Kg	✳	02/04/25 08:14	02/04/25 19:23	1
Cadmium	0.26		0.089	0.022	mg/Kg	✳	02/04/25 08:14	02/04/25 19:23	1
Chromium	16		0.53	0.22	mg/Kg	✳	02/04/25 08:14	02/04/25 19:23	1
Copper	13		0.53	0.27	mg/Kg	✳	02/04/25 08:14	02/04/25 19:23	1
Nickel	13		0.53	0.22	mg/Kg	✳	02/04/25 08:14	02/04/25 19:23	1
Lead	9.4		0.35	0.13	mg/Kg	✳	02/04/25 08:14	02/04/25 19:23	1
Selenium	0.40		0.18	0.044	mg/Kg	✳	02/04/25 08:14	02/04/25 19:23	1
Zinc	42		1.8	0.89	mg/Kg	✳	02/04/25 08:14	02/04/25 19:23	1

Client Sample ID: RR116-TA05
Date Collected: 02/02/25 12:04
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-8
Matrix: Solid
Percent Solids: 87.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.034	J	0.084	0.021	mg/Kg	✳	02/04/25 08:14	02/04/25 19:25	1
Arsenic	6.9		0.17	0.042	mg/Kg	✳	02/04/25 08:14	02/04/25 19:25	1
Barium	290		0.34	0.13	mg/Kg	✳	02/04/25 08:14	02/04/25 19:25	1
Cadmium	0.33		0.084	0.021	mg/Kg	✳	02/04/25 08:14	02/04/25 19:25	1
Chromium	18		0.50	0.21	mg/Kg	✳	02/04/25 08:14	02/04/25 19:25	1
Copper	15		0.50	0.25	mg/Kg	✳	02/04/25 08:14	02/04/25 19:25	1
Nickel	15		0.50	0.21	mg/Kg	✳	02/04/25 08:14	02/04/25 19:25	1
Lead	9.9		0.34	0.13	mg/Kg	✳	02/04/25 08:14	02/04/25 19:25	1
Selenium	0.36		0.17	0.042	mg/Kg	✳	02/04/25 08:14	02/04/25 19:25	1
Zinc	46		1.7	0.84	mg/Kg	✳	02/04/25 08:14	02/04/25 19:25	1

Client Sample ID: RR116-SA01
Date Collected: 02/02/25 12:28
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-9
Matrix: Solid
Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.043	J	0.084	0.021	mg/Kg	✳	02/04/25 08:14	02/04/25 19:27	1
Arsenic	7.1		0.17	0.042	mg/Kg	✳	02/04/25 08:14	02/04/25 19:27	1
Barium	150		0.34	0.13	mg/Kg	✳	02/04/25 08:14	02/04/25 19:27	1
Cadmium	0.23		0.084	0.021	mg/Kg	✳	02/04/25 08:14	02/04/25 19:27	1
Chromium	15		0.50	0.21	mg/Kg	✳	02/04/25 08:14	02/04/25 19:27	1
Copper	12		0.50	0.25	mg/Kg	✳	02/04/25 08:14	02/04/25 19:27	1
Nickel	13		0.50	0.21	mg/Kg	✳	02/04/25 08:14	02/04/25 19:27	1
Lead	9.0		0.34	0.13	mg/Kg	✳	02/04/25 08:14	02/04/25 19:27	1
Selenium	0.40		0.17	0.042	mg/Kg	✳	02/04/25 08:14	02/04/25 19:27	1
Zinc	45		1.7	0.84	mg/Kg	✳	02/04/25 08:14	02/04/25 19:27	1

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Client Sample Results

Client: Topographic
 Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 6020B - Metals (ICP/MS)

Client Sample ID: RR116-SA02
Date Collected: 02/02/25 13:23
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-10
Matrix: Solid
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.037	J	0.085	0.021	mg/Kg	☼	02/04/25 08:14	02/04/25 19:34	1
Arsenic	6.8		0.17	0.042	mg/Kg	☼	02/04/25 08:14	02/04/25 19:34	1
Barium	220		0.34	0.13	mg/Kg	☼	02/04/25 08:14	02/04/25 19:34	1
Cadmium	0.28		0.085	0.021	mg/Kg	☼	02/04/25 08:14	02/04/25 19:34	1
Chromium	15		0.51	0.21	mg/Kg	☼	02/04/25 08:14	02/04/25 19:34	1
Copper	12		0.51	0.25	mg/Kg	☼	02/04/25 08:14	02/04/25 19:34	1
Nickel	14		0.51	0.21	mg/Kg	☼	02/04/25 08:14	02/04/25 19:34	1
Lead	9.2		0.34	0.13	mg/Kg	☼	02/04/25 08:14	02/04/25 19:34	1
Selenium	0.39		0.17	0.042	mg/Kg	☼	02/04/25 08:14	02/04/25 19:34	1
Zinc	40		1.7	0.85	mg/Kg	☼	02/04/25 08:14	02/04/25 19:34	1

Client Sample ID: RR116-SA03
Date Collected: 02/02/25 13:42
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-11
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.039	J	0.087	0.022	mg/Kg	☼	02/04/25 08:14	02/04/25 19:36	1
Arsenic	9.7		0.17	0.043	mg/Kg	☼	02/04/25 08:14	02/04/25 19:36	1
Barium	390		0.35	0.13	mg/Kg	☼	02/04/25 08:14	02/04/25 19:36	1
Cadmium	0.29		0.087	0.022	mg/Kg	☼	02/04/25 08:14	02/04/25 19:36	1
Chromium	18		0.52	0.22	mg/Kg	☼	02/04/25 08:14	02/04/25 19:36	1
Copper	14		0.52	0.26	mg/Kg	☼	02/04/25 08:14	02/04/25 19:36	1
Nickel	17		0.52	0.22	mg/Kg	☼	02/04/25 08:14	02/04/25 19:36	1
Lead	12		0.35	0.13	mg/Kg	☼	02/04/25 08:14	02/04/25 19:36	1
Selenium	0.50		0.17	0.043	mg/Kg	☼	02/04/25 08:14	02/04/25 19:36	1
Zinc	45		1.7	0.87	mg/Kg	☼	02/04/25 08:14	02/04/25 19:36	1

Client Sample ID: RR116-SA04
Date Collected: 02/02/25 14:05
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-12
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.033	J	0.083	0.021	mg/Kg	☼	02/04/25 08:14	02/05/25 08:20	1
Arsenic	6.5		0.17	0.041	mg/Kg	☼	02/04/25 08:14	02/05/25 08:20	1
Barium	220		0.33	0.12	mg/Kg	☼	02/04/25 08:14	02/05/25 08:20	1
Cadmium	0.24		0.083	0.021	mg/Kg	☼	02/04/25 08:14	02/05/25 08:20	1
Chromium	14		0.50	0.21	mg/Kg	☼	02/04/25 08:14	02/05/25 08:20	1
Copper	12		0.50	0.25	mg/Kg	☼	02/04/25 08:14	02/05/25 08:20	1
Nickel	12		0.50	0.21	mg/Kg	☼	02/04/25 08:14	02/05/25 08:20	1
Lead	7.5		0.33	0.12	mg/Kg	☼	02/04/25 08:14	02/05/25 08:20	1
Selenium	0.32		0.17	0.041	mg/Kg	☼	02/04/25 08:14	02/05/25 08:20	1
Zinc	34		1.7	0.83	mg/Kg	☼	02/04/25 08:14	02/05/25 08:20	1

Client Sample ID: RR116-SA05
Date Collected: 02/02/25 14:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-13
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.045	J	0.10	0.025	mg/Kg	☼	02/04/25 08:14	02/05/25 08:23	1
Arsenic	7.5		0.20	0.050	mg/Kg	☼	02/04/25 08:14	02/05/25 08:23	1
Barium	270		0.40	0.15	mg/Kg	☼	02/04/25 08:14	02/05/25 08:23	1
Cadmium	0.29		0.10	0.025	mg/Kg	☼	02/04/25 08:14	02/05/25 08:23	1
Chromium	21		0.60	0.25	mg/Kg	☼	02/04/25 08:14	02/05/25 08:23	1

Eurofins Denver

Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: SW846 6020B - Metals (ICP/MS) (Continued)

Client Sample ID: RR116-SA05
Date Collected: 02/02/25 14:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-13
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	16		0.60	0.30	mg/Kg	☼	02/04/25 08:14	02/05/25 08:23	1
Nickel	18		0.60	0.25	mg/Kg	☼	02/04/25 08:14	02/05/25 08:23	1
Lead	11		0.40	0.15	mg/Kg	☼	02/04/25 08:14	02/05/25 08:23	1
Selenium	0.40		0.20	0.050	mg/Kg	☼	02/04/25 08:14	02/05/25 08:23	1
Zinc	52		2.0	1.0	mg/Kg	☼	02/04/25 08:14	02/05/25 08:23	1

Client Sample ID: RR116-BG01
Date Collected: 02/02/25 14:56
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-14
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	0.056	J	0.10	0.025	mg/Kg	☼	02/04/25 08:14	02/05/25 08:25	1
Arsenic	7.6		0.20	0.050	mg/Kg	☼	02/04/25 08:14	02/05/25 08:25	1
Barium	390		0.40	0.15	mg/Kg	☼	02/04/25 08:14	02/05/25 08:25	1
Cadmium	0.30		0.10	0.025	mg/Kg	☼	02/04/25 08:14	02/05/25 08:25	1
Chromium	26		0.60	0.25	mg/Kg	☼	02/04/25 08:14	02/05/25 08:25	1
Copper	19		0.60	0.30	mg/Kg	☼	02/04/25 08:14	02/05/25 08:25	1
Nickel	20		0.60	0.25	mg/Kg	☼	02/04/25 08:14	02/05/25 08:25	1
Lead	14		0.40	0.15	mg/Kg	☼	02/04/25 08:14	02/05/25 08:25	1
Selenium	0.41		0.20	0.050	mg/Kg	☼	02/04/25 08:14	02/05/25 08:25	1
Zinc	66		2.0	1.0	mg/Kg	☼	02/04/25 08:14	02/05/25 08:25	1

General Chemistry

Client Sample ID: RR116-DCA01
Date Collected: 02/02/25 09:27
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-1
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	200		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	580		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	8.5	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.45	0.14	mg/Kg	☼	02/13/25 10:47	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	12.5		0.1	0.1	%			02/03/25 14:52	1

Client Sample ID: RR116-DCA02
Date Collected: 02/02/25 09:50
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-2
Matrix: Solid
Percent Solids: 86.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	4500		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	13000		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	8.1	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.46	0.14	mg/Kg	☼	02/13/25 10:47	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	14.0		0.1	0.1	%			02/03/25 14:52	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

General Chemistry

Client Sample ID: RR116-DCA03

Date Collected: 02/02/25 10:13

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-3

Matrix: Solid

Percent Solids: 86.2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	1100		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	2500		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	7.7	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.45	0.14	mg/Kg	☼	02/13/25 10:47	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	13.8		0.1	0.1	%			02/03/25 14:52	1

Client Sample ID: RR116-TA01

Date Collected: 02/02/25 10:34

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-4

Matrix: Solid

Percent Solids: 84.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	3600		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	11000		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	7.7	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.47	0.14	mg/Kg	☼	02/13/25 10:47	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	15.7		0.1	0.1	%			02/03/25 14:52	1

Client Sample ID: RR116-TA02

Date Collected: 02/02/25 11:02

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-5

Matrix: Solid

Percent Solids: 85.1

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	3700		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	11000		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	7.9	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.47	0.14	mg/Kg	☼	02/10/25 12:08	02/13/25 13:27	1
Percent Moisture (ASTM D 2216)	14.9		0.1	0.1	%			02/03/25 14:52	1

Client Sample ID: RR116-TA03

Date Collected: 02/02/25 11:22

Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-6

Matrix: Solid

Percent Solids: 85.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	1700		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	4200		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	7.5	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.47	0.14	mg/Kg	☼	02/13/25 10:48	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	14.5		0.1	0.1	%			02/03/25 14:52	1

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Client Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

General Chemistry

Client Sample ID: RR116-TA04
Date Collected: 02/02/25 11:45
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-7
Matrix: Solid
Percent Solids: 84.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	3600		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	11000		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	7.9	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.47	0.14	mg/Kg	☼	02/13/25 10:48	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	15.1		0.1	0.1	%			02/03/25 14:52	1

Client Sample ID: RR116-TA05
Date Collected: 02/02/25 12:04
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-8
Matrix: Solid
Percent Solids: 87.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	1100		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	2800		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	7.8	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.45	0.14	mg/Kg	☼	02/13/25 10:48	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	12.3		0.1	0.1	%			02/03/25 14:52	1

Client Sample ID: RR116-SA01
Date Collected: 02/02/25 12:28
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-9
Matrix: Solid
Percent Solids: 87.9

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	420		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	1400		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	7.8	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.44	0.14	mg/Kg	☼	02/13/25 10:48	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	12.1		0.1	0.1	%			02/04/25 12:50	1

Client Sample ID: RR116-SA02
Date Collected: 02/02/25 13:23
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-10
Matrix: Solid
Percent Solids: 85.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	480		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	1500		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	7.8	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.45	0.14	mg/Kg	☼	02/13/25 10:48	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	14.4		0.1	0.1	%			02/04/25 12:50	1

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Client Sample Results

Client: Topographic
 Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

General Chemistry

Client Sample ID: RR116-SA03
Date Collected: 02/02/25 13:42
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-11
Matrix: Solid
Percent Solids: 83.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	1200		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	3400		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	8.3	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.52	0.16	mg/Kg	☼	02/13/25 10:48	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	17.0		0.1	0.1	%			02/03/25 14:52	1

Client Sample ID: RR116-SA04
Date Collected: 02/02/25 14:05
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-12
Matrix: Solid
Percent Solids: 87.5

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	600		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	1900		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	8.1	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.46	0.14	mg/Kg	☼	02/13/25 10:48	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	12.5		0.1	0.1	%			02/03/25 14:52	1

Client Sample ID: RR116-SA05
Date Collected: 02/02/25 14:22
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-13
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	590		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	1600		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	7.9	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.47	0.15	mg/Kg	☼	02/13/25 10:48	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	15.3		0.1	0.1	%			02/04/25 12:50	1

Client Sample ID: RR116-BG01
Date Collected: 02/02/25 14:56
Date Received: 02/03/25 13:20

Lab Sample ID: 280-202506-14
Matrix: Solid
Percent Solids: 84.7

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance (LA 29B_EC)	130		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
Electrical Conductivity (LA 29B_EC)	330		10	10	umho/cm		02/17/25 09:32	02/20/25 11:25	1
pH (LA 29B_pH)	8.8	HF	0.10	0.10	S.U.		02/17/25 09:32	02/20/25 11:22	1
Temperature (LA 29B_pH)	17	HF	0.10	0.10	Deg. C		02/17/25 09:32	02/20/25 11:22	1
Chromium, hexavalent (SW846 7196A)	ND		0.47	0.14	mg/Kg	☼	02/13/25 10:48	02/18/25 17:55	1
Percent Moisture (ASTM D 2216)	15.3		0.1	0.1	%			02/03/25 14:52	1

Surrogate Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		DCA (80-120)	TOL (80-120)	BFB (80-120)	DBFM (80-120)
280-202506-1	RR116-DCA01	91	94	91	102
280-202506-2	RR116-DCA02	88	94	90	102
280-202506-3	RR116-DCA03	85	96	94	102
280-202506-4	RR116-TA01	87	94	91	101
280-202506-5	RR116-TA02	89	93	90	102
280-202506-6	RR116-TA03	84	94	93	99
280-202506-7	RR116-TA04	87	94	95	102
280-202506-8	RR116-TA05	86	95	91	101
280-202506-9	RR116-SA01	88	93	94	103
280-202506-10	RR116-SA02	85	94	92	100
280-202506-11	RR116-SA03	88	93	93	102
280-202506-12	RR116-SA04	85	91	92	100
280-202506-13	RR116-SA05	114	99	100	100
280-202506-14	RR116-BG01	115	98	101	100
LCS 280-684190/2-A	Lab Control Sample	87	93	94	103
LCS 280-684643/2-A	Lab Control Sample	109	100	101	101
LCS 280-684190/3-A	Lab Control Sample Dup	84	93	94	102
LCS 280-684643/3-A	Lab Control Sample Dup	108	100	100	101
MB 280-684190/1-A	Method Blank	85	93	92	102
MB 280-684643/1-A	Method Blank	112	99	99	102

Surrogate Legend

DCA = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)
BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)				
		FBP (30-120)	NBZ (22-120)	TPHL (46-122)	2MN (24-150)	FLN (45-121)
280-202506-1	RR116-DCA01	62	59	66	61	65
280-202506-2	RR116-DCA02	68	65	72	67	71
280-202506-3	RR116-DCA03	75	67	81	70	76
280-202506-4	RR116-TA01	64	60	70	63	70
280-202506-5	RR116-TA02	65	60	67	63	67
280-202506-6	RR116-TA03	73	62	72	63	67
280-202506-7	RR116-TA04	68	60	69	62	68
280-202506-8	RR116-TA05	134 S1+	93	90	70	70
280-202506-9	RR116-SA01	74	66	73	65	68
280-202506-10	RR116-SA02	72	64	72	64	68
280-202506-11	RR116-SA03	139 S1+	86	123 S1+	72	80
280-202506-12	RR116-SA04	95	78	85	76	81
280-202506-13	RR116-SA05	68	65	73	68	74
280-202506-14	RR116-BG01	71	65	74	69	74
LCS 280-684633/2-A	Lab Control Sample	64	62	71	143	68
MB 280-684633/1-A	Method Blank	73	62	90	66	83

Surrogate Legend

Eurofins Denver

Surrogate Summary

Client: Topographic
 Project/Site: DEO Red Rocks, Colorado
 FBP = 2-Fluorobiphenyl
 NBZ = Nitrobenzene-d5
 TPHL = Terphenyl-d14
 2MN = 2-methylnaphthalene-d10
 FLN = Fluoranthene-d10

Job ID: 280-202506-1

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	BFB1 (80-120)
280-202506-1	RR116-DCA01	112
280-202506-2	RR116-DCA02	110
280-202506-3	RR116-DCA03	98
280-202506-4	RR116-TA01	97
280-202506-5	RR116-TA02	99
280-202506-6	RR116-TA03	100
280-202506-7	RR116-TA04	96
280-202506-8	RR116-TA05	97
280-202506-9	RR116-SA01	99
280-202506-10	RR116-SA02	96
280-202506-11	RR116-SA03	98
280-202506-12	RR116-SA04	99
280-202506-13	RR116-SA05	89
280-202506-14	RR116-BG01	89
280-202506-14 MS	RR116-BG01	86
280-202506-14 MSD	RR116-BG01	84
LCS 280-684023/1-A	Lab Control Sample	109
LCS 280-684714/1-A	Lab Control Sample	86
LCSD 280-684023/2-A	Lab Control Sample Dup	110
LCSD 280-684714/2-A	Lab Control Sample Dup	89
MB 280-684023/3-A	Method Blank	110
MB 280-684714/3-A	Method Blank	91

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

Method: 8015D - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (48-139)	OTCN (33-136)
280-202506-1	RR116-DCA01	77	74
280-202506-2	RR116-DCA02	72	73
280-202506-3	RR116-DCA03	81	74
280-202506-4	RR116-TA01	73	66
280-202506-5	RR116-TA02	73	70
280-202506-6	RR116-TA03	71	62
280-202506-7	RR116-TA04	71	61
280-202506-8	RR116-TA05	78	68
280-202506-9	RR116-SA01	79	53
280-202506-10	RR116-SA02	82	69
280-202506-11	RR116-SA03	85	76
280-202506-12	RR116-SA04	77	71
280-202506-12 MS	RR116-SA04	83	81

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Surrogate Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTPH (48-139)	OTCN (33-136)
280-202506-12 MSD	RR116-SA04	69	68
280-202506-13	RR116-SA05	84	88
280-202506-14	RR116-BG01	81	86
LCS 280-684601/2-A	Lab Control Sample	91	94
LCS 280-684706/2-A	Lab Control Sample	82	78
MB 280-684601/1-A	Method Blank	76	93
MB 280-684706/1-A	Method Blank	80	81

Surrogate Legend

OTPH = o-Terphenyl (Surr)

OTCN = n-Octacosane (Surr)

QC Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 8260D - Volatile Organic Compounds by GC/MS

Lab Sample ID: MB 280-684190/1-A
Matrix: Solid
Analysis Batch: 684146

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684190

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.0050	0.0010	mg/Kg		02/10/25 07:00	02/10/25 12:24	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0010	mg/Kg		02/10/25 07:00	02/10/25 12:24	1
Naphthalene	ND		5.0	1.0	ug/Kg		02/10/25 07:00	02/10/25 12:24	1
Ethylbenzene	ND		0.0050	0.0010	mg/Kg		02/10/25 07:00	02/10/25 12:24	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0010	mg/Kg		02/10/25 07:00	02/10/25 12:24	1
Toluene	ND		0.0050	0.0020	mg/Kg		02/10/25 07:00	02/10/25 12:24	1
Xylenes, Total	ND		0.0050	0.0010	mg/Kg		02/10/25 07:00	02/10/25 12:24	1

Surrogate	MB	MB	Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	85		80 - 120	02/10/25 07:00	02/10/25 12:24	1
Toluene-d8 (Surr)	93		80 - 120	02/10/25 07:00	02/10/25 12:24	1
4-Bromofluorobenzene (Surr)	92		80 - 120	02/10/25 07:00	02/10/25 12:24	1
Dibromofluoromethane (Surr)	102		80 - 120	02/10/25 07:00	02/10/25 12:24	1

Lab Sample ID: LCS 280-684190/2-A
Matrix: Solid
Analysis Batch: 684146

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684190

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Benzene	0.0500	0.0480		mg/Kg		96		76 - 120
1,2,4-Trimethylbenzene	0.0500	0.0455		mg/Kg		91		71 - 121
Naphthalene	50.0	48.1		ug/Kg		96		73 - 120
Ethylbenzene	0.0500	0.0453		mg/Kg		91		75 - 120
1,3,5-Trimethylbenzene	0.0500	0.0450		mg/Kg		90		73 - 121
Toluene	0.0500	0.0492		mg/Kg		98		72 - 120

Surrogate	LCS	LCS	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	87		80 - 120
Toluene-d8 (Surr)	93		80 - 120
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	103		80 - 120

Lab Sample ID: LCSD 280-684190/3-A
Matrix: Solid
Analysis Batch: 684146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 684190

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD Limit
		Result	Qualifier							
Benzene	0.0500	0.0460		mg/Kg		92		76 - 120	4	20
1,2,4-Trimethylbenzene	0.0500	0.0428		mg/Kg		86		71 - 121	6	20
Naphthalene	50.0	43.1		ug/Kg		86		73 - 120	11	20
Ethylbenzene	0.0500	0.0442		mg/Kg		88		75 - 120	3	20
1,3,5-Trimethylbenzene	0.0500	0.0430		mg/Kg		86		73 - 121	5	20
Toluene	0.0500	0.0477		mg/Kg		95		72 - 120	3	20

Surrogate	LCSD	LCSD	Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	84		80 - 120
Toluene-d8 (Surr)	93		80 - 120

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QC Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCSD 280-684190/3-A
Matrix: Solid
Analysis Batch: 684146

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 684190

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	94		80 - 120
Dibromofluoromethane (Surr)	102		80 - 120

Lab Sample ID: MB 280-684643/1-A
Matrix: Solid
Analysis Batch: 684621

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684643

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Benzene	ND		0.0050	0.0010	mg/Kg		02/13/25 07:00	02/13/25 13:59	1
1,2,4-Trimethylbenzene	ND		0.0050	0.0010	mg/Kg		02/13/25 07:00	02/13/25 13:59	1
Naphthalene	ND		5.0	1.0	ug/Kg		02/13/25 07:00	02/13/25 13:59	1
Ethylbenzene	ND		0.0050	0.0010	mg/Kg		02/13/25 07:00	02/13/25 13:59	1
1,3,5-Trimethylbenzene	ND		0.0050	0.0010	mg/Kg		02/13/25 07:00	02/13/25 13:59	1
Toluene	ND		0.0050	0.0020	mg/Kg		02/13/25 07:00	02/13/25 13:59	1
Xylenes, Total	ND		0.0050	0.0010	mg/Kg		02/13/25 07:00	02/13/25 13:59	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
1,2-Dichloroethane-d4 (Surr)	112		80 - 120	02/13/25 07:00	02/13/25 13:59	1
Toluene-d8 (Surr)	99		80 - 120	02/13/25 07:00	02/13/25 13:59	1
4-Bromofluorobenzene (Surr)	99		80 - 120	02/13/25 07:00	02/13/25 13:59	1
Dibromofluoromethane (Surr)	102		80 - 120	02/13/25 07:00	02/13/25 13:59	1

Lab Sample ID: LCS 280-684643/2-A
Matrix: Solid
Analysis Batch: 684621

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684643

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Benzene	0.0500	0.0426		mg/Kg		85	76 - 120
1,2,4-Trimethylbenzene	0.0500	0.0476		mg/Kg		95	71 - 121
Naphthalene	50.0	51.3		ug/Kg		103	73 - 120
Ethylbenzene	0.0500	0.0441		mg/Kg		88	75 - 120
1,3,5-Trimethylbenzene	0.0500	0.0485		mg/Kg		97	73 - 121
Toluene	0.0500	0.0422		mg/Kg		84	72 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
1,2-Dichloroethane-d4 (Surr)	109		80 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	101		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120

Lab Sample ID: LCSD 280-684643/3-A
Matrix: Solid
Analysis Batch: 684621

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 684643

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	
		Result	Qualifier					RPD	Limit
Benzene	0.0500	0.0443		mg/Kg		89	76 - 120	4	20
1,2,4-Trimethylbenzene	0.0500	0.0498		mg/Kg		100	71 - 121	4	20
Naphthalene	50.0	54.2		ug/Kg		108	73 - 120	5	20

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QC Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 8260D - Volatile Organic Compounds by GC/MS (Continued)

Lab Sample ID: LCS D 280-684643/3-A
Matrix: Solid
Analysis Batch: 684621

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 684643

Analyte	Spike Added	LCS D Result	LCS D Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Ethylbenzene	0.0500	0.0474		mg/Kg		95	75 - 120	7	20
1,3,5-Trimethylbenzene	0.0500	0.0505		mg/Kg		101	73 - 121	4	20
Toluene	0.0500	0.0438		mg/Kg		88	72 - 120	4	20

Surrogate	LCS D %Recovery	LCS D Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	108		80 - 120
Toluene-d8 (Surr)	100		80 - 120
4-Bromofluorobenzene (Surr)	100		80 - 120
Dibromofluoromethane (Surr)	101		80 - 120

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM)

Lab Sample ID: MB 280-684633/1-A
Matrix: Solid
Analysis Batch: 684800

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684633

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Anthracene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Benzo[a]anthracene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Benzo[a]pyrene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Benzo[b]fluoranthene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Benzo[k]fluoranthene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Chrysene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Dibenz(a,h)anthracene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Fluoranthene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Fluorene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
2-Methylnaphthalene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Acenaphthene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Indeno[1,2,3-cd]pyrene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Naphthalene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
Pyrene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1
1-Methylnaphthalene	ND		0.010	0.0020	mg/Kg		02/13/25 12:33	02/14/25 12:21	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2-Fluorobiphenyl	73		30 - 120	02/13/25 12:33	02/14/25 12:21	1
Nitrobenzene-d5	62		22 - 120	02/13/25 12:33	02/14/25 12:21	1
Terphenyl-d14	90		46 - 122	02/13/25 12:33	02/14/25 12:21	1
2-methylnaphthalene-d10	66		24 - 150	02/13/25 12:33	02/14/25 12:21	1
Fluoranthene-d10	83		45 - 121	02/13/25 12:33	02/14/25 12:21	1

Lab Sample ID: LCS 280-684633/2-A
Matrix: Solid
Analysis Batch: 684800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Anthracene	0.0600	0.0405		mg/Kg		67	34 - 120
Benzo[a]anthracene	0.0600	0.0405		mg/Kg		68	43 - 120
Benzo[a]pyrene	0.0600	0.0386		mg/Kg		64	29 - 129

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QC Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 8270E SIM - Semivolatile Organic Compounds (GC/MS SIM) (Continued)

Lab Sample ID: LCS 280-684633/2-A
Matrix: Solid
Analysis Batch: 684800

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684633

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
Benzo[b]fluoranthene	0.0600	0.0395		mg/Kg		66	41 - 127	
Benzo[k]fluoranthene	0.0600	0.0378		mg/Kg		63	41 - 126	
Chrysene	0.0600	0.0384		mg/Kg		64	43 - 122	
Dibenz(a,h)anthracene	0.0600	0.0379		mg/Kg		63	34 - 135	
Fluoranthene	0.0600	0.0412		mg/Kg		69	43 - 120	
Fluorene	0.0600	0.0383		mg/Kg		64	36 - 120	
2-Methylnaphthalene	0.0600	0.0406		mg/Kg		68	24 - 120	
Acenaphthene	0.0600	0.0377		mg/Kg		63	29 - 120	
Indeno[1,2,3-cd]pyrene	0.0600	0.0360		mg/Kg		60	33 - 133	
Naphthalene	0.0600	0.0377		mg/Kg		63	23 - 120	
Pyrene	0.0600	0.0413		mg/Kg		69	43 - 121	
1-Methylnaphthalene	0.0600	0.0372		mg/Kg		62	25 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
2-Fluorobiphenyl	64		30 - 120
Nitrobenzene-d5	62		22 - 120
Terphenyl-d14	71		46 - 122
2-methylnaphthalene-d10	143		24 - 150
Fluoranthene-d10	68		45 - 121

Method: 8015D - Gasoline Range Organics (GRO) (GC)

Lab Sample ID: MB 280-684023/3-A
Matrix: Solid
Analysis Batch: 684039

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684023

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
GRO (C6-C10)	ND		2.0	0.75	mg/Kg		02/07/25 09:09	02/07/25 14:00	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	110		80 - 120	02/07/25 09:09	02/07/25 14:00	1

Lab Sample ID: LCS 280-684023/1-A
Matrix: Solid
Analysis Batch: 684039

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684023

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits	
GRO (C6-C10)	9.99	8.88		mg/Kg		89	70 - 120	

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	109		80 - 120

Lab Sample ID: LCSD 280-684023/2-A
Matrix: Solid
Analysis Batch: 684039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 684023

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	
								RPD	Limit
GRO (C6-C10)	9.99	8.81		mg/Kg		88	70 - 120	1	20

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QC Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: LCSD 280-684023/2-A
Matrix: Solid
Analysis Batch: 684039

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 684023

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	110		80 - 120

Lab Sample ID: MB 280-684714/3-A
Matrix: Solid
Analysis Batch: 684716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684714

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
GRO (C6-C10)	ND		2.0	0.75	mg/Kg		02/13/25 11:11	02/13/25 19:37	1

Surrogate	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
4-Bromofluorobenzene (Surr)	91		80 - 120	02/13/25 11:11	02/13/25 19:37	1

Lab Sample ID: LCS 280-684714/1-A
Matrix: Solid
Analysis Batch: 684716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684714

Analyte	Spike Added	LCS LCS		Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
GRO (C6-C10)	9.99	7.31		mg/Kg		73	70 - 120

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		80 - 120

Lab Sample ID: LCSD 280-684714/2-A
Matrix: Solid
Analysis Batch: 684716

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 684714

Analyte	Spike Added	LCSD LCSD		Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
		Result	Qualifier						
GRO (C6-C10)	9.99	7.51		mg/Kg		75	70 - 120	3	20

Surrogate	LCSD LCSD		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	89		80 - 120

Lab Sample ID: 280-202506-14 MS
Matrix: Solid
Analysis Batch: 684716

Client Sample ID: RR116-BG01
Prep Type: Total/NA
Prep Batch: 684714

Analyte	Sample Result	Sample Qualifier	Spike Added	MS MS		Unit	D	%Rec	%Rec Limits
				Result	Qualifier				
GRO (C6-C10)	ND		14.2	11.9		mg/Kg	✱	84	70 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
4-Bromofluorobenzene (Surr)	86		80 - 120

QC Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 8015D - Gasoline Range Organics (GRO) (GC) (Continued)

Lab Sample ID: 280-202506-14 MSD
Matrix: Solid
Analysis Batch: 684716

Client Sample ID: RR116-BG01
Prep Type: Total/NA
Prep Batch: 684714

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
GRO (C6-C10)	ND		14.2	12.8		mg/Kg	☼	90	70 - 120	7	20
Surrogate	%Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	84		80 - 120								

Method: 8015D - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 280-684601/1-A
Matrix: Solid
Analysis Batch: 684810

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684601

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		10	4.0	mg/Kg		02/13/25 11:31	02/14/25 15:36	1
ORO (C20-C38)	ND		10	4.0	mg/Kg		02/13/25 11:31	02/14/25 15:36	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	76		48 - 139				02/13/25 11:31	02/14/25 15:36	1
n-Octacosane (Surr)	93		33 - 136				02/13/25 11:31	02/14/25 15:36	1

Lab Sample ID: LCS 280-684601/2-A
Matrix: Solid
Analysis Batch: 684810

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684601

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DRO (C10-C28)	133	127		mg/Kg		95	46 - 120
Surrogate	LCS %Recovery	LCS Qualifier	LCS Limits				
o-Terphenyl (Surr)	91		48 - 139				
n-Octacosane (Surr)	94		33 - 136				

Lab Sample ID: MB 280-684706/1-A
Matrix: Solid
Analysis Batch: 684898

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 684706

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
DRO (C10-C28)	ND		9.4	3.8	mg/Kg		02/14/25 06:28	02/16/25 10:03	1
ORO (C20-C38)	ND		9.4	3.8	mg/Kg		02/14/25 06:28	02/16/25 10:03	1
Surrogate	%Recovery	MB Qualifier	MB Limits				Prepared	Analyzed	Dil Fac
o-Terphenyl (Surr)	80		48 - 139				02/14/25 06:28	02/16/25 10:03	1
n-Octacosane (Surr)	81		33 - 136				02/14/25 06:28	02/16/25 10:03	1

Lab Sample ID: LCS 280-684706/2-A
Matrix: Solid
Analysis Batch: 684898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 684706

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
DRO (C10-C28)	125	101		mg/Kg		80	46 - 120

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QC Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 8015D - Diesel Range Organics (DRO) (GC) (Continued)

Surrogate	LCS LCS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl (Surr)	82		48 - 139
<i>n</i> -Octacosane (Surr)	78		33 - 136

Lab Sample ID: 280-202506-12 MS
Matrix: Solid
Analysis Batch: 684898

Client Sample ID: RR116-SA04
Prep Type: Total/NA
Prep Batch: 684706

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
DRO (C10-C28)	ND		387	312		mg/Kg	⊛	80		46 - 120

Surrogate	MS MS		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl (Surr)	83		48 - 139
<i>n</i> -Octacosane (Surr)	81		33 - 136

Lab Sample ID: 280-202506-12 MSD
Matrix: Solid
Analysis Batch: 684898

Client Sample ID: RR116-SA04
Prep Type: Total/NA
Prep Batch: 684706

Analyte	Sample	Sample	Spike	MSD	MSD	Unit	D	%Rec	%Rec	Limits	RPD	RPD
	Result	Qualifier	Added	Result	Qualifier						Limit	
DRO (C10-C28)	ND		428	301		mg/Kg	⊛	70		46 - 120	4	20

Surrogate	MSD MSD		Limits
	%Recovery	Qualifier	
<i>o</i> -Terphenyl (Surr)	69		48 - 139
<i>n</i> -Octacosane (Surr)	68		33 - 136

Method: 6010D - Metals (ICP)

Lab Sample ID: MB 280-683490/1-A
Matrix: Solid
Analysis Batch: 683703

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683490

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Boron	ND		10	5.0	mg/Kg		02/04/25 08:14	02/05/25 01:55	1

Lab Sample ID: LCS 280-683490/2-A
Matrix: Solid
Analysis Batch: 683703

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683490

Analyte	Spike	LCS LCS		Unit	D	%Rec	%Rec	Limits
		Result	Qualifier					
Boron	200	187		mg/Kg		94		85 - 115

Lab Sample ID: 280-202506-1 MS
Matrix: Solid
Analysis Batch: 683703

Client Sample ID: RR116-DCA01
Prep Type: Total/NA
Prep Batch: 683490

Analyte	Sample	Sample	Spike	MS	MS	Unit	D	%Rec	%Rec	Limits
	Result	Qualifier	Added	Result	Qualifier					
Boron	11		175	178		mg/Kg	⊛	95		75 - 125

QC Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 6010D - Metals (ICP) (Continued)

Lab Sample ID: 280-202506-1 MSD
Matrix: Solid
Analysis Batch: 683703

Client Sample ID: RR116-DCA01
Prep Type: Total/NA
Prep Batch: 683490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Boron	11		175	178		mg/Kg	⊛	96	75 - 125	0	20

Method: 6020B - Metals (ICP/MS)

Lab Sample ID: MB 280-683490/1-A
Matrix: Solid
Analysis Batch: 683721

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 683490

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Silver	ND		0.10	0.025	mg/Kg		02/04/25 08:14	02/04/25 18:50	1
Arsenic	ND		0.20	0.050	mg/Kg		02/04/25 08:14	02/04/25 18:50	1
Barium	ND		0.40	0.15	mg/Kg		02/04/25 08:14	02/04/25 18:50	1
Cadmium	ND		0.10	0.025	mg/Kg		02/04/25 08:14	02/04/25 18:50	1
Chromium	ND		0.60	0.25	mg/Kg		02/04/25 08:14	02/04/25 18:50	1
Copper	ND		0.60	0.30	mg/Kg		02/04/25 08:14	02/04/25 18:50	1
Nickel	ND		0.60	0.25	mg/Kg		02/04/25 08:14	02/04/25 18:50	1
Lead	ND		0.40	0.15	mg/Kg		02/04/25 08:14	02/04/25 18:50	1
Selenium	ND		0.20	0.050	mg/Kg		02/04/25 08:14	02/04/25 18:50	1
Zinc	ND		2.0	1.0	mg/Kg		02/04/25 08:14	02/04/25 18:50	1

Lab Sample ID: LCS 280-683490/19-A
Matrix: Solid
Analysis Batch: 683721

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 683490

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	20.0	18.6		mg/Kg		93	85 - 115
Arsenic	20.0	17.9		mg/Kg		89	85 - 115
Barium	20.0	18.4		mg/Kg		92	85 - 115
Cadmium	20.0	19.4		mg/Kg		97	85 - 115
Chromium	20.0	17.5		mg/Kg		88	85 - 115
Copper	20.0	17.7		mg/Kg		88	85 - 115
Nickel	20.0	17.6		mg/Kg		88	85 - 115
Lead	20.0	17.3		mg/Kg		86	85 - 115
Selenium	20.0	17.6		mg/Kg		88	85 - 115
Zinc	20.0	18.3		mg/Kg		92	85 - 115

Lab Sample ID: 280-202506-1 MS
Matrix: Solid
Analysis Batch: 683721

Client Sample ID: RR116-DCA01
Prep Type: Total/NA
Prep Batch: 683490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Silver	0.048	J	20.5	20.3		mg/Kg	⊛	99	75 - 125
Arsenic	6.2		20.5	27.1		mg/Kg	⊛	102	75 - 125
Barium	350		20.5	363	4	mg/Kg	⊛	47	75 - 125
Cadmium	0.27		20.5	21.4		mg/Kg	⊛	103	75 - 125
Chromium	13		20.5	35.4		mg/Kg	⊛	110	75 - 125
Copper	11		20.5	31.5		mg/Kg	⊛	101	75 - 125
Nickel	11		20.5	31.8		mg/Kg	⊛	101	75 - 125
Lead	6.9		20.5	27.1		mg/Kg	⊛	99	75 - 125

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QC Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 6020B - Metals (ICP/MS) (Continued)

Lab Sample ID: 280-202506-1 MS
Matrix: Solid
Analysis Batch: 683721

Client Sample ID: RR116-DCA01
Prep Type: Total/NA
Prep Batch: 683490

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits
Selenium	0.32		20.5	20.8		mg/Kg	⊛	100	75 - 125
Zinc	31		20.5	54.8		mg/Kg	⊛	115	75 - 125

Lab Sample ID: 280-202506-1 MSD
Matrix: Solid
Analysis Batch: 683721

Client Sample ID: RR116-DCA01
Prep Type: Total/NA
Prep Batch: 683490

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Silver	0.048	J	20.5	19.4		mg/Kg	⊛	94	75 - 125	5	20
Arsenic	6.2		20.5	26.4		mg/Kg	⊛	99	75 - 125	2	20
Barium	350		20.5	395	4	mg/Kg	⊛	200	75 - 125	8	20
Cadmium	0.27		20.5	20.6		mg/Kg	⊛	99	75 - 125	4	20
Chromium	13		20.5	35.6		mg/Kg	⊛	110	75 - 125	0	20
Copper	11		20.5	31.4		mg/Kg	⊛	100	75 - 125	1	20
Nickel	11		20.5	31.8		mg/Kg	⊛	101	75 - 125	0	20
Lead	6.9		20.5	26.6		mg/Kg	⊛	96	75 - 125	2	20
Selenium	0.32		20.5	19.8		mg/Kg	⊛	95	75 - 125	5	20
Zinc	31		20.5	54.4		mg/Kg	⊛	113	75 - 125	1	20

Method: 29B_EC - Conductivity, Electrical

Lab Sample ID: 280-202506-6 DU
Matrix: Solid
Analysis Batch: 217881

Client Sample ID: RR116-TA03
Prep Type: Total/NA
Prep Batch: 217026

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	1700		1680		umho/cm		0.7	20
Electrical Conductivity	4200		4190		umho/cm		0.7	20

Lab Sample ID: 280-202506-9 DU
Matrix: Solid
Analysis Batch: 217881

Client Sample ID: RR116-SA01
Prep Type: Total/NA
Prep Batch: 217026

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Specific Conductance	420		420		umho/cm		0.1	20
Electrical Conductivity	1400		1370		umho/cm		0.1	20

Lab Sample ID: MB 860-217881/2
Matrix: Solid
Analysis Batch: 217881

Client Sample ID: Method Blank
Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Specific Conductance	ND		10	10	umho/cm			02/20/25 11:24	1
Electrical Conductivity	ND		10	10	umho/cm			02/20/25 11:24	1

QC Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 29B_pH - pH

Lab Sample ID: 280-202506-6 DU
Matrix: Solid
Analysis Batch: 217880

Client Sample ID: RR116-TA03
Prep Type: Total/NA
Prep Batch: 217026

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
pH	7.5	HF	7.49		S.U.		0.3	20
Temperature	17	HF	17.0		Deg. C		0	25

Lab Sample ID: 280-202506-9 DU
Matrix: Solid
Analysis Batch: 217880

Client Sample ID: RR116-SA01
Prep Type: Total/NA
Prep Batch: 217026

Analyte	Sample	Sample	DU	DU	Unit	D	RPD	Limit
	Result	Qualifier	Result	Qualifier				
pH	7.8	HF	7.78		S.U.		0.1	20
Temperature	17	HF	17.0		Deg. C		0	25

Method: 7196A - Chromium, Hexavalent

Lab Sample ID: MB 860-215722/3-A
Matrix: Solid
Analysis Batch: 216546

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 215722

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium, hexavalent	ND		0.40	0.12	mg/Kg		02/10/25 12:08	02/13/25 13:27	1

Lab Sample ID: LCS 860-215722/4-A
Matrix: Solid
Analysis Batch: 216546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 215722

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chromium, hexavalent	20.0	19.8		mg/Kg		99	80 - 120

Lab Sample ID: LCSD 860-215722/5-A
Matrix: Solid
Analysis Batch: 216546

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 215722

Analyte	Spike Added	LCSD	LCSD	Unit	D	%Rec	%Rec Limits	RPD	Limit
		Result	Qualifier						
Chromium, hexavalent	20.0	19.7		mg/Kg		98	80 - 120	1	20

Lab Sample ID: MB 860-216504/3-A
Matrix: Solid
Analysis Batch: 217470

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 216504

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Chromium, hexavalent	ND		0.40	0.12	mg/Kg		02/13/25 10:47	02/18/25 17:55	1

Lab Sample ID: LCS 860-216504/4-A
Matrix: Solid
Analysis Batch: 217470

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 216504

Analyte	Spike Added	LCS	LCS	Unit	D	%Rec	%Rec Limits
		Result	Qualifier				
Chromium, hexavalent	20.0	19.6		mg/Kg		98	80 - 120

QC Sample Results

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Method: 7196A - Chromium, Hexavalent (Continued)

Lab Sample ID: LCSD 860-216504/5-A
Matrix: Solid
Analysis Batch: 217470

Client Sample ID: Lab Control Sample Dup
Prep Type: Total/NA
Prep Batch: 216504

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	20.0	19.6		mg/Kg		98	80 - 120	0	20

Lab Sample ID: 280-202506-1 MS
Matrix: Solid
Analysis Batch: 217470

Client Sample ID: RR116-DCA01
Prep Type: Total/NA
Prep Batch: 216504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		22.6	17.9		mg/Kg	⊛	79	75 - 125		

Lab Sample ID: 280-202506-1 MSD
Matrix: Solid
Analysis Batch: 217470

Client Sample ID: RR116-DCA01
Prep Type: Total/NA
Prep Batch: 216504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		22.6	17.9		mg/Kg	⊛	79	75 - 125	0	20

Lab Sample ID: 280-202506-14 MS
Matrix: Solid
Analysis Batch: 217470

Client Sample ID: RR116-BG01
Prep Type: Total/NA
Prep Batch: 216504

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		23.3	18.9		mg/Kg	⊛	81	75 - 125		

Lab Sample ID: 280-202506-14 MSD
Matrix: Solid
Analysis Batch: 217470

Client Sample ID: RR116-BG01
Prep Type: Total/NA
Prep Batch: 216504

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium, hexavalent	ND		23.3	18.7		mg/Kg	⊛	80	75 - 125	1	20

Method: D 2216 - Percent Moisture

Lab Sample ID: 280-202506-13 DU
Matrix: Solid
Analysis Batch: 683618

Client Sample ID: RR116-SA05
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Percent Moisture	15.3		15.0		%		2	20

QC Association Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

GC/MS VOA

Analysis Batch: 684146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	8260D	684190
280-202506-2	RR116-DCA02	Total/NA	Solid	8260D	684190
280-202506-3	RR116-DCA03	Total/NA	Solid	8260D	684190
280-202506-4	RR116-TA01	Total/NA	Solid	8260D	684190
280-202506-5	RR116-TA02	Total/NA	Solid	8260D	684190
280-202506-6	RR116-TA03	Total/NA	Solid	8260D	684190
280-202506-7	RR116-TA04	Total/NA	Solid	8260D	684190
280-202506-8	RR116-TA05	Total/NA	Solid	8260D	684190
280-202506-9	RR116-SA01	Total/NA	Solid	8260D	684190
280-202506-10	RR116-SA02	Total/NA	Solid	8260D	684190
280-202506-11	RR116-SA03	Total/NA	Solid	8260D	684190
280-202506-12	RR116-SA04	Total/NA	Solid	8260D	684190
MB 280-684190/1-A	Method Blank	Total/NA	Solid	8260D	684190
LCS 280-684190/2-A	Lab Control Sample	Total/NA	Solid	8260D	684190
LCSD 280-684190/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	684190

Prep Batch: 684190

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	5035	
280-202506-2	RR116-DCA02	Total/NA	Solid	5035	
280-202506-3	RR116-DCA03	Total/NA	Solid	5035	
280-202506-4	RR116-TA01	Total/NA	Solid	5035	
280-202506-5	RR116-TA02	Total/NA	Solid	5035	
280-202506-6	RR116-TA03	Total/NA	Solid	5035	
280-202506-7	RR116-TA04	Total/NA	Solid	5035	
280-202506-8	RR116-TA05	Total/NA	Solid	5035	
280-202506-9	RR116-SA01	Total/NA	Solid	5035	
280-202506-10	RR116-SA02	Total/NA	Solid	5035	
280-202506-11	RR116-SA03	Total/NA	Solid	5035	
280-202506-12	RR116-SA04	Total/NA	Solid	5035	
MB 280-684190/1-A	Method Blank	Total/NA	Solid	5035	
LCS 280-684190/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-684190/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

Analysis Batch: 684621

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-13	RR116-SA05	Total/NA	Solid	8260D	684643
280-202506-14	RR116-BG01	Total/NA	Solid	8260D	684643
MB 280-684643/1-A	Method Blank	Total/NA	Solid	8260D	684643
LCS 280-684643/2-A	Lab Control Sample	Total/NA	Solid	8260D	684643
LCSD 280-684643/3-A	Lab Control Sample Dup	Total/NA	Solid	8260D	684643

Prep Batch: 684643

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-13	RR116-SA05	Total/NA	Solid	5035	
280-202506-14	RR116-BG01	Total/NA	Solid	5035	
MB 280-684643/1-A	Method Blank	Total/NA	Solid	5035	
LCS 280-684643/2-A	Lab Control Sample	Total/NA	Solid	5035	
LCSD 280-684643/3-A	Lab Control Sample Dup	Total/NA	Solid	5035	

QC Association Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

GC/MS Semi VOA

Prep Batch: 684633

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	3546	
280-202506-2	RR116-DCA02	Total/NA	Solid	3546	
280-202506-3	RR116-DCA03	Total/NA	Solid	3546	
280-202506-4	RR116-TA01	Total/NA	Solid	3546	
280-202506-5	RR116-TA02	Total/NA	Solid	3546	
280-202506-6	RR116-TA03	Total/NA	Solid	3546	
280-202506-7	RR116-TA04	Total/NA	Solid	3546	
280-202506-8	RR116-TA05	Total/NA	Solid	3546	
280-202506-9	RR116-SA01	Total/NA	Solid	3546	
280-202506-10	RR116-SA02	Total/NA	Solid	3546	
280-202506-11	RR116-SA03	Total/NA	Solid	3546	
280-202506-12	RR116-SA04	Total/NA	Solid	3546	
280-202506-13	RR116-SA05	Total/NA	Solid	3546	
280-202506-14	RR116-BG01	Total/NA	Solid	3546	
MB 280-684633/1-A	Method Blank	Total/NA	Solid	3546	
LCS 280-684633/2-A	Lab Control Sample	Total/NA	Solid	3546	

Analysis Batch: 684800

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	8270E SIM	684633
280-202506-2	RR116-DCA02	Total/NA	Solid	8270E SIM	684633
280-202506-3	RR116-DCA03	Total/NA	Solid	8270E SIM	684633
280-202506-4	RR116-TA01	Total/NA	Solid	8270E SIM	684633
280-202506-5	RR116-TA02	Total/NA	Solid	8270E SIM	684633
280-202506-6	RR116-TA03	Total/NA	Solid	8270E SIM	684633
280-202506-7	RR116-TA04	Total/NA	Solid	8270E SIM	684633
280-202506-8	RR116-TA05	Total/NA	Solid	8270E SIM	684633
280-202506-9	RR116-SA01	Total/NA	Solid	8270E SIM	684633
280-202506-10	RR116-SA02	Total/NA	Solid	8270E SIM	684633
280-202506-11	RR116-SA03	Total/NA	Solid	8270E SIM	684633
280-202506-12	RR116-SA04	Total/NA	Solid	8270E SIM	684633
280-202506-13	RR116-SA05	Total/NA	Solid	8270E SIM	684633
280-202506-14	RR116-BG01	Total/NA	Solid	8270E SIM	684633
MB 280-684633/1-A	Method Blank	Total/NA	Solid	8270E SIM	684633
LCS 280-684633/2-A	Lab Control Sample	Total/NA	Solid	8270E SIM	684633

GC VOA

Prep Batch: 684023

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	5030A	
280-202506-2	RR116-DCA02	Total/NA	Solid	5030A	
280-202506-3	RR116-DCA03	Total/NA	Solid	5030A	
280-202506-4	RR116-TA01	Total/NA	Solid	5030A	
280-202506-5	RR116-TA02	Total/NA	Solid	5030A	
280-202506-6	RR116-TA03	Total/NA	Solid	5030A	
280-202506-7	RR116-TA04	Total/NA	Solid	5030A	
280-202506-8	RR116-TA05	Total/NA	Solid	5030A	
280-202506-9	RR116-SA01	Total/NA	Solid	5030A	
280-202506-10	RR116-SA02	Total/NA	Solid	5030A	
280-202506-11	RR116-SA03	Total/NA	Solid	5030A	

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QC Association Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

GC VOA (Continued)

Prep Batch: 684023 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-12	RR116-SA04	Total/NA	Solid	5030A	
MB 280-684023/3-A	Method Blank	Total/NA	Solid	5030A	
LCS 280-684023/1-A	Lab Control Sample	Total/NA	Solid	5030A	
LCSD 280-684023/2-A	Lab Control Sample Dup	Total/NA	Solid	5030A	

Analysis Batch: 684039

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	8015D	684023
280-202506-2	RR116-DCA02	Total/NA	Solid	8015D	684023
MB 280-684023/3-A	Method Blank	Total/NA	Solid	8015D	684023
LCS 280-684023/1-A	Lab Control Sample	Total/NA	Solid	8015D	684023
LCSD 280-684023/2-A	Lab Control Sample Dup	Total/NA	Solid	8015D	684023

Analysis Batch: 684420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-5	RR116-TA02	Total/NA	Solid	8015D	684023
280-202506-6	RR116-TA03	Total/NA	Solid	8015D	684023
280-202506-7	RR116-TA04	Total/NA	Solid	8015D	684023
280-202506-8	RR116-TA05	Total/NA	Solid	8015D	684023
280-202506-9	RR116-SA01	Total/NA	Solid	8015D	684023
280-202506-10	RR116-SA02	Total/NA	Solid	8015D	684023
280-202506-11	RR116-SA03	Total/NA	Solid	8015D	684023
280-202506-12	RR116-SA04	Total/NA	Solid	8015D	684023

Analysis Batch: 684563

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-3	RR116-DCA03	Total/NA	Solid	8015D	684023
280-202506-4	RR116-TA01	Total/NA	Solid	8015D	684023

Prep Batch: 684714

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-13	RR116-SA05	Total/NA	Solid	5030A	
280-202506-14	RR116-BG01	Total/NA	Solid	5030A	
MB 280-684714/3-A	Method Blank	Total/NA	Solid	5030A	
LCS 280-684714/1-A	Lab Control Sample	Total/NA	Solid	5030A	
LCSD 280-684714/2-A	Lab Control Sample Dup	Total/NA	Solid	5030A	
280-202506-14 MS	RR116-BG01	Total/NA	Solid	5030A	
280-202506-14 MSD	RR116-BG01	Total/NA	Solid	5030A	

Analysis Batch: 684716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-13	RR116-SA05	Total/NA	Solid	8015D	684714
280-202506-14	RR116-BG01	Total/NA	Solid	8015D	684714
MB 280-684714/3-A	Method Blank	Total/NA	Solid	8015D	684714
LCS 280-684714/1-A	Lab Control Sample	Total/NA	Solid	8015D	684714
LCSD 280-684714/2-A	Lab Control Sample Dup	Total/NA	Solid	8015D	684714
280-202506-14 MS	RR116-BG01	Total/NA	Solid	8015D	684714
280-202506-14 MSD	RR116-BG01	Total/NA	Solid	8015D	684714

QC Association Summary

Client: Topographic
 Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

GC Semi VOA

Prep Batch: 684601

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-13	RR116-SA05	Total/NA	Solid	3546	
280-202506-14	RR116-BG01	Total/NA	Solid	3546	
MB 280-684601/1-A	Method Blank	Total/NA	Solid	3546	
LCS 280-684601/2-A	Lab Control Sample	Total/NA	Solid	3546	

Prep Batch: 684706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	3546	
280-202506-2	RR116-DCA02	Total/NA	Solid	3546	
280-202506-3	RR116-DCA03	Total/NA	Solid	3546	
280-202506-4	RR116-TA01	Total/NA	Solid	3546	
280-202506-5	RR116-TA02	Total/NA	Solid	3546	
280-202506-6	RR116-TA03	Total/NA	Solid	3546	
280-202506-7	RR116-TA04	Total/NA	Solid	3546	
280-202506-8	RR116-TA05	Total/NA	Solid	3546	
280-202506-9	RR116-SA01	Total/NA	Solid	3546	
280-202506-10	RR116-SA02	Total/NA	Solid	3546	
280-202506-11	RR116-SA03	Total/NA	Solid	3546	
280-202506-12	RR116-SA04	Total/NA	Solid	3546	
MB 280-684706/1-A	Method Blank	Total/NA	Solid	3546	
LCS 280-684706/2-A	Lab Control Sample	Total/NA	Solid	3546	
280-202506-12 MS	RR116-SA04	Total/NA	Solid	3546	
280-202506-12 MSD	RR116-SA04	Total/NA	Solid	3546	

Analysis Batch: 684810

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-13	RR116-SA05	Total/NA	Solid	8015D	684601
280-202506-14	RR116-BG01	Total/NA	Solid	8015D	684601
MB 280-684601/1-A	Method Blank	Total/NA	Solid	8015D	684601
LCS 280-684601/2-A	Lab Control Sample	Total/NA	Solid	8015D	684601

Analysis Batch: 684898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	8015D	684706
280-202506-2	RR116-DCA02	Total/NA	Solid	8015D	684706
280-202506-3	RR116-DCA03	Total/NA	Solid	8015D	684706
280-202506-4	RR116-TA01	Total/NA	Solid	8015D	684706
280-202506-5	RR116-TA02	Total/NA	Solid	8015D	684706
280-202506-6	RR116-TA03	Total/NA	Solid	8015D	684706
280-202506-7	RR116-TA04	Total/NA	Solid	8015D	684706
280-202506-8	RR116-TA05	Total/NA	Solid	8015D	684706
280-202506-9	RR116-SA01	Total/NA	Solid	8015D	684706
280-202506-10	RR116-SA02	Total/NA	Solid	8015D	684706
280-202506-11	RR116-SA03	Total/NA	Solid	8015D	684706
280-202506-12	RR116-SA04	Total/NA	Solid	8015D	684706
MB 280-684706/1-A	Method Blank	Total/NA	Solid	8015D	684706
LCS 280-684706/2-A	Lab Control Sample	Total/NA	Solid	8015D	684706
280-202506-12 MS	RR116-SA04	Total/NA	Solid	8015D	684706
280-202506-12 MSD	RR116-SA04	Total/NA	Solid	8015D	684706

QC Association Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Metals

Prep Batch: 215433

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Soluble	Solid	29B	
280-202506-2	RR116-DCA02	Soluble	Solid	29B	
280-202506-3	RR116-DCA03	Soluble	Solid	29B	
280-202506-4	RR116-TA01	Soluble	Solid	29B	
280-202506-5	RR116-TA02	Soluble	Solid	29B	
280-202506-6	RR116-TA03	Soluble	Solid	29B	
280-202506-7	RR116-TA04	Soluble	Solid	29B	
280-202506-8	RR116-TA05	Soluble	Solid	29B	
280-202506-9	RR116-SA01	Soluble	Solid	29B	
280-202506-10	RR116-SA02	Soluble	Solid	29B	
280-202506-11	RR116-SA03	Soluble	Solid	29B	
280-202506-12	RR116-SA04	Soluble	Solid	29B	
280-202506-13	RR116-SA05	Soluble	Solid	29B	
280-202506-14	RR116-BG01	Soluble	Solid	29B	

Analysis Batch: 217460

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Soluble	Solid	29B SAR	215433
280-202506-2	RR116-DCA02	Soluble	Solid	29B SAR	215433
280-202506-3	RR116-DCA03	Soluble	Solid	29B SAR	215433
280-202506-4	RR116-TA01	Soluble	Solid	29B SAR	215433
280-202506-5	RR116-TA02	Soluble	Solid	29B SAR	215433
280-202506-6	RR116-TA03	Soluble	Solid	29B SAR	215433
280-202506-7	RR116-TA04	Soluble	Solid	29B SAR	215433
280-202506-8	RR116-TA05	Soluble	Solid	29B SAR	215433
280-202506-9	RR116-SA01	Soluble	Solid	29B SAR	215433
280-202506-10	RR116-SA02	Soluble	Solid	29B SAR	215433
280-202506-11	RR116-SA03	Soluble	Solid	29B SAR	215433
280-202506-12	RR116-SA04	Soluble	Solid	29B SAR	215433
280-202506-13	RR116-SA05	Soluble	Solid	29B SAR	215433
280-202506-14	RR116-BG01	Soluble	Solid	29B SAR	215433

Prep Batch: 683490

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	3050B	
280-202506-1	RR116-DCA01	Total/NA	Solid	3050B	
280-202506-2	RR116-DCA02	Total/NA	Solid	3050B	
280-202506-3	RR116-DCA03	Total/NA	Solid	3050B	
280-202506-4	RR116-TA01	Total/NA	Solid	3050B	
280-202506-5	RR116-TA02	Total/NA	Solid	3050B	
280-202506-6	RR116-TA03	Total/NA	Solid	3050B	
280-202506-7	RR116-TA04	Total/NA	Solid	3050B	
280-202506-8	RR116-TA05	Total/NA	Solid	3050B	
280-202506-9	RR116-SA01	Total/NA	Solid	3050B	
280-202506-10	RR116-SA02	Total/NA	Solid	3050B	
280-202506-11	RR116-SA03	Total/NA	Solid	3050B	
280-202506-12	RR116-SA04	Total/NA	Solid	3050B	
280-202506-13	RR116-SA05	Total/NA	Solid	3050B	
280-202506-14	RR116-BG01	Total/NA	Solid	3050B	
MB 280-683490/1-A	Method Blank	Total/NA	Solid	3050B	
LCS 280-683490/19-A	Lab Control Sample	Total/NA	Solid	3050B	

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Client: Topographic
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Job ID: 280-202506-1

Metals (Continued)

Prep Batch: 683490 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 280-683490/2-A	Lab Control Sample	Total/NA	Solid	3050B	
280-202506-1 MS	RR116-DCA01	Total/NA	Solid	3050B	
280-202506-1 MS	RR116-DCA01	Total/NA	Solid	3050B	
280-202506-1 MSD	RR116-DCA01	Total/NA	Solid	3050B	
280-202506-1 MSD	RR116-DCA01	Total/NA	Solid	3050B	

Analysis Batch: 683703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	6010D	683490
280-202506-2	RR116-DCA02	Total/NA	Solid	6010D	683490
280-202506-3	RR116-DCA03	Total/NA	Solid	6010D	683490
280-202506-4	RR116-TA01	Total/NA	Solid	6010D	683490
280-202506-5	RR116-TA02	Total/NA	Solid	6010D	683490
280-202506-6	RR116-TA03	Total/NA	Solid	6010D	683490
280-202506-7	RR116-TA04	Total/NA	Solid	6010D	683490
280-202506-8	RR116-TA05	Total/NA	Solid	6010D	683490
280-202506-9	RR116-SA01	Total/NA	Solid	6010D	683490
280-202506-10	RR116-SA02	Total/NA	Solid	6010D	683490
280-202506-11	RR116-SA03	Total/NA	Solid	6010D	683490
280-202506-12	RR116-SA04	Total/NA	Solid	6010D	683490
280-202506-13	RR116-SA05	Total/NA	Solid	6010D	683490
280-202506-14	RR116-BG01	Total/NA	Solid	6010D	683490
MB 280-683490/1-A	Method Blank	Total/NA	Solid	6010D	683490
LCS 280-683490/2-A	Lab Control Sample	Total/NA	Solid	6010D	683490
280-202506-1 MS	RR116-DCA01	Total/NA	Solid	6010D	683490
280-202506-1 MSD	RR116-DCA01	Total/NA	Solid	6010D	683490

Analysis Batch: 683721

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	6020B	683490
280-202506-2	RR116-DCA02	Total/NA	Solid	6020B	683490
280-202506-3	RR116-DCA03	Total/NA	Solid	6020B	683490
280-202506-4	RR116-TA01	Total/NA	Solid	6020B	683490
280-202506-5	RR116-TA02	Total/NA	Solid	6020B	683490
280-202506-6	RR116-TA03	Total/NA	Solid	6020B	683490
280-202506-7	RR116-TA04	Total/NA	Solid	6020B	683490
280-202506-8	RR116-TA05	Total/NA	Solid	6020B	683490
280-202506-9	RR116-SA01	Total/NA	Solid	6020B	683490
280-202506-10	RR116-SA02	Total/NA	Solid	6020B	683490
280-202506-11	RR116-SA03	Total/NA	Solid	6020B	683490
280-202506-12	RR116-SA04	Total/NA	Solid	6020B	683490
280-202506-13	RR116-SA05	Total/NA	Solid	6020B	683490
280-202506-14	RR116-BG01	Total/NA	Solid	6020B	683490
MB 280-683490/1-A	Method Blank	Total/NA	Solid	6020B	683490
LCS 280-683490/19-A	Lab Control Sample	Total/NA	Solid	6020B	683490
280-202506-1 MS	RR116-DCA01	Total/NA	Solid	6020B	683490
280-202506-1 MSD	RR116-DCA01	Total/NA	Solid	6020B	683490

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Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

General Chemistry

Prep Batch: 215722

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-5	RR116-TA02	Total/NA	Solid	3060A	
MB 860-215722/3-A	Method Blank	Total/NA	Solid	3060A	
LCS 860-215722/4-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSD 860-215722/5-A	Lab Control Sample Dup	Total/NA	Solid	3060A	

Prep Batch: 216504

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	3060A	
280-202506-2	RR116-DCA02	Total/NA	Solid	3060A	
280-202506-3	RR116-DCA03	Total/NA	Solid	3060A	
280-202506-4	RR116-TA01	Total/NA	Solid	3060A	
280-202506-6	RR116-TA03	Total/NA	Solid	3060A	
280-202506-7	RR116-TA04	Total/NA	Solid	3060A	
280-202506-8	RR116-TA05	Total/NA	Solid	3060A	
280-202506-9	RR116-SA01	Total/NA	Solid	3060A	
280-202506-10	RR116-SA02	Total/NA	Solid	3060A	
280-202506-11	RR116-SA03	Total/NA	Solid	3060A	
280-202506-12	RR116-SA04	Total/NA	Solid	3060A	
280-202506-13	RR116-SA05	Total/NA	Solid	3060A	
280-202506-14	RR116-BG01	Total/NA	Solid	3060A	
MB 860-216504/3-A	Method Blank	Total/NA	Solid	3060A	
LCS 860-216504/4-A	Lab Control Sample	Total/NA	Solid	3060A	
LCSD 860-216504/5-A	Lab Control Sample Dup	Total/NA	Solid	3060A	
280-202506-1 MS	RR116-DCA01	Total/NA	Solid	3060A	
280-202506-1 MSD	RR116-DCA01	Total/NA	Solid	3060A	
280-202506-14 MS	RR116-BG01	Total/NA	Solid	3060A	
280-202506-14 MSD	RR116-BG01	Total/NA	Solid	3060A	

Analysis Batch: 216546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-5	RR116-TA02	Total/NA	Solid	7196A	215722
MB 860-215722/3-A	Method Blank	Total/NA	Solid	7196A	215722
LCS 860-215722/4-A	Lab Control Sample	Total/NA	Solid	7196A	215722
LCSD 860-215722/5-A	Lab Control Sample Dup	Total/NA	Solid	7196A	215722

Prep Batch: 217026

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	29B	
280-202506-2	RR116-DCA02	Total/NA	Solid	29B	
280-202506-3	RR116-DCA03	Total/NA	Solid	29B	
280-202506-4	RR116-TA01	Total/NA	Solid	29B	
280-202506-5	RR116-TA02	Total/NA	Solid	29B	
280-202506-6	RR116-TA03	Total/NA	Solid	29B	
280-202506-7	RR116-TA04	Total/NA	Solid	29B	
280-202506-8	RR116-TA05	Total/NA	Solid	29B	
280-202506-9	RR116-SA01	Total/NA	Solid	29B	
280-202506-10	RR116-SA02	Total/NA	Solid	29B	
280-202506-11	RR116-SA03	Total/NA	Solid	29B	
280-202506-12	RR116-SA04	Total/NA	Solid	29B	
280-202506-13	RR116-SA05	Total/NA	Solid	29B	
280-202506-14	RR116-BG01	Total/NA	Solid	29B	

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Client: Topographic
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Job ID: 280-202506-1

General Chemistry (Continued)

Prep Batch: 217026 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-6 DU	RR116-TA03	Total/NA	Solid	29B	
280-202506-9 DU	RR116-SA01	Total/NA	Solid	29B	

Analysis Batch: 217470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	7196A	216504
280-202506-2	RR116-DCA02	Total/NA	Solid	7196A	216504
280-202506-3	RR116-DCA03	Total/NA	Solid	7196A	216504
280-202506-4	RR116-TA01	Total/NA	Solid	7196A	216504
280-202506-6	RR116-TA03	Total/NA	Solid	7196A	216504
280-202506-7	RR116-TA04	Total/NA	Solid	7196A	216504
280-202506-8	RR116-TA05	Total/NA	Solid	7196A	216504
280-202506-9	RR116-SA01	Total/NA	Solid	7196A	216504
280-202506-10	RR116-SA02	Total/NA	Solid	7196A	216504
280-202506-11	RR116-SA03	Total/NA	Solid	7196A	216504
280-202506-12	RR116-SA04	Total/NA	Solid	7196A	216504
280-202506-13	RR116-SA05	Total/NA	Solid	7196A	216504
280-202506-14	RR116-BG01	Total/NA	Solid	7196A	216504
MB 860-216504/3-A	Method Blank	Total/NA	Solid	7196A	216504
LCS 860-216504/4-A	Lab Control Sample	Total/NA	Solid	7196A	216504
LCSD 860-216504/5-A	Lab Control Sample Dup	Total/NA	Solid	7196A	216504
280-202506-1 MS	RR116-DCA01	Total/NA	Solid	7196A	216504
280-202506-1 MSD	RR116-DCA01	Total/NA	Solid	7196A	216504
280-202506-14 MS	RR116-BG01	Total/NA	Solid	7196A	216504
280-202506-14 MSD	RR116-BG01	Total/NA	Solid	7196A	216504

Prep Batch: 217768

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	Sat Paste Ext	217026
280-202506-2	RR116-DCA02	Total/NA	Solid	Sat Paste Ext	217026
280-202506-3	RR116-DCA03	Total/NA	Solid	Sat Paste Ext	217026
280-202506-4	RR116-TA01	Total/NA	Solid	Sat Paste Ext	217026
280-202506-5	RR116-TA02	Total/NA	Solid	Sat Paste Ext	217026
280-202506-6	RR116-TA03	Total/NA	Solid	Sat Paste Ext	217026
280-202506-7	RR116-TA04	Total/NA	Solid	Sat Paste Ext	217026
280-202506-8	RR116-TA05	Total/NA	Solid	Sat Paste Ext	217026
280-202506-9	RR116-SA01	Total/NA	Solid	Sat Paste Ext	217026
280-202506-10	RR116-SA02	Total/NA	Solid	Sat Paste Ext	217026
280-202506-11	RR116-SA03	Total/NA	Solid	Sat Paste Ext	217026
280-202506-12	RR116-SA04	Total/NA	Solid	Sat Paste Ext	217026
280-202506-13	RR116-SA05	Total/NA	Solid	Sat Paste Ext	217026
280-202506-14	RR116-BG01	Total/NA	Solid	Sat Paste Ext	217026
280-202506-6 DU	RR116-TA03	Total/NA	Solid	Sat Paste Ext	217026
280-202506-9 DU	RR116-SA01	Total/NA	Solid	Sat Paste Ext	217026

Analysis Batch: 217880

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	29B_pH	217768
280-202506-2	RR116-DCA02	Total/NA	Solid	29B_pH	217768
280-202506-3	RR116-DCA03	Total/NA	Solid	29B_pH	217768
280-202506-4	RR116-TA01	Total/NA	Solid	29B_pH	217768

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Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

General Chemistry (Continued)

Analysis Batch: 217880 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-5	RR116-TA02	Total/NA	Solid	29B_pH	217768
280-202506-6	RR116-TA03	Total/NA	Solid	29B_pH	217768
280-202506-7	RR116-TA04	Total/NA	Solid	29B_pH	217768
280-202506-8	RR116-TA05	Total/NA	Solid	29B_pH	217768
280-202506-9	RR116-SA01	Total/NA	Solid	29B_pH	217768
280-202506-10	RR116-SA02	Total/NA	Solid	29B_pH	217768
280-202506-11	RR116-SA03	Total/NA	Solid	29B_pH	217768
280-202506-12	RR116-SA04	Total/NA	Solid	29B_pH	217768
280-202506-13	RR116-SA05	Total/NA	Solid	29B_pH	217768
280-202506-14	RR116-BG01	Total/NA	Solid	29B_pH	217768
280-202506-6 DU	RR116-TA03	Total/NA	Solid	29B_pH	217768
280-202506-9 DU	RR116-SA01	Total/NA	Solid	29B_pH	217768

Analysis Batch: 217881

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	29B_EC	217768
280-202506-2	RR116-DCA02	Total/NA	Solid	29B_EC	217768
280-202506-3	RR116-DCA03	Total/NA	Solid	29B_EC	217768
280-202506-4	RR116-TA01	Total/NA	Solid	29B_EC	217768
280-202506-5	RR116-TA02	Total/NA	Solid	29B_EC	217768
280-202506-6	RR116-TA03	Total/NA	Solid	29B_EC	217768
280-202506-7	RR116-TA04	Total/NA	Solid	29B_EC	217768
280-202506-8	RR116-TA05	Total/NA	Solid	29B_EC	217768
280-202506-9	RR116-SA01	Total/NA	Solid	29B_EC	217768
280-202506-10	RR116-SA02	Total/NA	Solid	29B_EC	217768
280-202506-11	RR116-SA03	Total/NA	Solid	29B_EC	217768
280-202506-12	RR116-SA04	Total/NA	Solid	29B_EC	217768
280-202506-13	RR116-SA05	Total/NA	Solid	29B_EC	217768
280-202506-14	RR116-BG01	Total/NA	Solid	29B_EC	217768
MB 860-217881/2	Method Blank	Total/NA	Solid	29B_EC	
LCS 860-217881/3	Lab Control Sample	Total/NA	Solid	29B_EC	
LCS 860-217881/4	Lab Control Sample Dup	Total/NA	Solid	29B_EC	
280-202506-6 DU	RR116-TA03	Total/NA	Solid	29B_EC	217768
280-202506-9 DU	RR116-SA01	Total/NA	Solid	29B_EC	217768

Analysis Batch: 683497

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-1	RR116-DCA01	Total/NA	Solid	D 2216	
280-202506-2	RR116-DCA02	Total/NA	Solid	D 2216	
280-202506-3	RR116-DCA03	Total/NA	Solid	D 2216	
280-202506-4	RR116-TA01	Total/NA	Solid	D 2216	
280-202506-5	RR116-TA02	Total/NA	Solid	D 2216	
280-202506-6	RR116-TA03	Total/NA	Solid	D 2216	
280-202506-7	RR116-TA04	Total/NA	Solid	D 2216	
280-202506-8	RR116-TA05	Total/NA	Solid	D 2216	
280-202506-11	RR116-SA03	Total/NA	Solid	D 2216	
280-202506-12	RR116-SA04	Total/NA	Solid	D 2216	
280-202506-14	RR116-BG01	Total/NA	Solid	D 2216	

QC Association Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

General Chemistry

Analysis Batch: 683618

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-202506-9	RR116-SA01	Total/NA	Solid	D 2216	
280-202506-10	RR116-SA02	Total/NA	Solid	D 2216	
280-202506-13	RR116-SA05	Total/NA	Solid	D 2216	
280-202506-13 DU	RR116-SA05	Total/NA	Solid	D 2216	

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Lab Chronicle

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-DCA01

Lab Sample ID: 280-202506-1

Date Collected: 02/02/25 09:27

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			173.74 g	154.40 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.08 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			173.74 g	154.40 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.08 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683497	02/03/25 14:52	WH	EET DEN

Client Sample ID: RR116-DCA01

Lab Sample ID: 280-202506-1

Date Collected: 02/02/25 09:27

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.869 g	5 mL	684190	02/02/25 09:27	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 15:20	JLS	EET DEN
Total/NA	Prep	3546			5.0 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 13:02	DNM	EET DEN
Total/NA	Prep	5030A			5.658 g	5 mL	684023	02/02/25 09:27	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684039	02/07/25 17:17	CCF	EET DEN
Total/NA	Prep	3546			5.43 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 13:20	LKB	EET DEN
Total/NA	Prep	3050B			1.306 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 02:02	NKC	EET DEN
Total/NA	Prep	3050B			1.114 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/04/25 18:55	LMT	EET DEN
Total/NA	Prep	3060A			2.54 g	100 mL	216504	02/13/25 10:47	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Client Sample ID: RR116-DCA02

Lab Sample ID: 280-202506-2

Date Collected: 02/02/25 09:50

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			158.61 g	142.76 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.04 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			158.61 g	142.76 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.04 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683497	02/03/25 14:52	WH	EET DEN

Lab Chronicle

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-DCA02

Lab Sample ID: 280-202506-2

Date Collected: 02/02/25 09:50

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 86.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.04 g	5 mL	684190	02/02/25 09:50	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 15:39	JLS	EET DEN
Total/NA	Prep	3546			5.2 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 13:23	DNM	EET DEN
Total/NA	Prep	5030A			5.637 g	5 mL	684023	02/02/25 09:50	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684039	02/07/25 17:39	CCF	EET DEN
Total/NA	Prep	3546			5.07 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 13:40	LKB	EET DEN
Total/NA	Prep	3050B			1.277 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 02:21	NKC	EET DEN
Total/NA	Prep	3050B			1.277 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/04/25 19:06	LMT	EET DEN
Total/NA	Prep	3060A			2.54 g	100 mL	216504	02/13/25 10:47	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Client Sample ID: RR116-DCA03

Lab Sample ID: 280-202506-3

Date Collected: 02/02/25 10:13

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			148.80 g	136.17 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.13 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			148.80 g	136.17 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.13 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683497	02/03/25 14:52	WH	EET DEN

Client Sample ID: RR116-DCA03

Lab Sample ID: 280-202506-3

Date Collected: 02/02/25 10:13

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.462 g	5 mL	684190	02/02/25 10:13	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 15:59	JLS	EET DEN
Total/NA	Prep	3546			5.3 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 13:44	DNM	EET DEN
Total/NA	Prep	5030A			5.669 g	5 mL	684023	02/02/25 10:13	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684563	02/12/25 21:17	CCF	EET DEN
Total/NA	Prep	3546			5.23 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 14:39	LKB	EET DEN
Total/NA	Prep	3050B			1.356 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 02:25	NKC	EET DEN

Eurofins Denver

Lab Chronicle

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-DCA03

Lab Sample ID: 280-202506-3

Date Collected: 02/02/25 10:13

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 86.2

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.356 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/04/25 19:09	LMT	EET DEN
Total/NA	Prep	3060A			2.55 g	100 mL	216504	02/13/25 10:47	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Client Sample ID: RR116-TA01

Lab Sample ID: 280-202506-4

Date Collected: 02/02/25 10:34

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			170.02 g	144.23 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.14 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			170.02 g	144.23 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.14 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683497	02/03/25 14:52	WH	EET DEN

Client Sample ID: RR116-TA01

Lab Sample ID: 280-202506-4

Date Collected: 02/02/25 10:34

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 84.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.385 g	5 mL	684190	02/02/25 10:34	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 16:18	JLS	EET DEN
Total/NA	Prep	3546			5.5 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 14:05	DNM	EET DEN
Total/NA	Prep	5030A			5.978 g	5 mL	684023	02/02/25 10:34	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684563	02/12/25 21:39	CCF	EET DEN
Total/NA	Prep	3546			5.92 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 14:59	LKB	EET DEN
Total/NA	Prep	3050B			1.383 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 02:29	NKC	EET DEN
Total/NA	Prep	3050B			1.383 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/04/25 19:16	LMT	EET DEN
Total/NA	Prep	3060A			2.53 g	100 mL	216504	02/13/25 10:47	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Lab Chronicle

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-TA02

Lab Sample ID: 280-202506-5

Date Collected: 02/02/25 11:02

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			150.97 g	143.28 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.09 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			150.97 g	143.28 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.09 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683497	02/03/25 14:52	WH	EET DEN

Client Sample ID: RR116-TA02

Lab Sample ID: 280-202506-5

Date Collected: 02/02/25 11:02

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 85.1

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.212 g	5 mL	684190	02/02/25 11:02	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 16:38	JLS	EET DEN
Total/NA	Prep	3546			5.2 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 14:25	DNM	EET DEN
Total/NA	Prep	5030A			5.814 g	5 mL	684023	02/02/25 11:02	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684420	02/11/25 23:12	DMC	EET DEN
Total/NA	Prep	3546			5.31 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 15:19	LKB	EET DEN
Total/NA	Prep	3050B			1.242 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 02:44	NKC	EET DEN
Total/NA	Prep	3050B			1.242 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/04/25 19:18	LMT	EET DEN
Total/NA	Prep	3060A			2.52 g	100 mL	215722	02/10/25 12:08	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	216546	02/13/25 13:27	SCI	EET HOU

Client Sample ID: RR116-TA03

Lab Sample ID: 280-202506-6

Date Collected: 02/02/25 11:22

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			150.97 g	136.66 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.08 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			150.97 g	136.66 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.08 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683497	02/03/25 14:52	WH	EET DEN

Lab Chronicle

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-TA03

Lab Sample ID: 280-202506-6

Date Collected: 02/02/25 11:22

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 85.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.714 g	5 mL	684190	02/02/25 11:22	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 16:57	JLS	EET DEN
Total/NA	Prep	3546			5.6 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 14:46	DNM	EET DEN
Total/NA	Prep	5030A			5.499 g	5 mL	684023	02/02/25 11:22	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684420	02/11/25 23:33	DMC	EET DEN
Total/NA	Prep	3546			5.75 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 15:39	LKB	EET DEN
Total/NA	Prep	3050B			1.145 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 02:48	NKC	EET DEN
Total/NA	Prep	3050B			1.145 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/04/25 19:20	LMT	EET DEN
Total/NA	Prep	3060A			2.51 g	100 mL	216504	02/13/25 10:48	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Client Sample ID: RR116-TA04

Lab Sample ID: 280-202506-7

Date Collected: 02/02/25 11:45

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			158.47 g	144.25 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.00 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			158.47 g	144.25 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.00 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683497	02/03/25 14:52	WH	EET DEN

Client Sample ID: RR116-TA04

Lab Sample ID: 280-202506-7

Date Collected: 02/02/25 11:45

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.042 g	5 mL	684190	02/02/25 11:45	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 17:17	JLS	EET DEN
Total/NA	Prep	3546			5.3 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 15:07	DNM	EET DEN
Total/NA	Prep	5030A			5.925 g	5 mL	684023	02/02/25 11:45	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684420	02/11/25 23:55	DMC	EET DEN
Total/NA	Prep	3546			5.24 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 15:59	LKB	EET DEN
Total/NA	Prep	3050B			1.328 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 02:52	NKC	EET DEN

Eurofins Denver

Lab Chronicle

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-TA04

Lab Sample ID: 280-202506-7

Date Collected: 02/02/25 11:45

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 84.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.328 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/04/25 19:23	LMT	EET DEN
Total/NA	Prep	3060A			2.53 g	100 mL	216504	02/13/25 10:48	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Client Sample ID: RR116-TA05

Lab Sample ID: 280-202506-8

Date Collected: 02/02/25 12:04

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			142.829 g	131.94 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.02 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			142.829 g	131.94 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.02 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683497	02/03/25 14:52	WH	EET DEN

Client Sample ID: RR116-TA05

Lab Sample ID: 280-202506-8

Date Collected: 02/02/25 12:04

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 87.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.341 g	5 mL	684190	02/02/25 12:04	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 17:36	JLS	EET DEN
Total/NA	Prep	3546			5.3 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 15:27	DNM	EET DEN
Total/NA	Prep	5030A			5.082 g	5 mL	684023	02/02/25 12:04	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684420	02/12/25 00:16	DMC	EET DEN
Total/NA	Prep	3546			5.29 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 16:18	LKB	EET DEN
Total/NA	Prep	3050B			1.355 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 02:56	NKC	EET DEN
Total/NA	Prep	3050B			1.355 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/04/25 19:25	LMT	EET DEN
Total/NA	Prep	3060A			2.56 g	100 mL	216504	02/13/25 10:48	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Lab Chronicle

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-SA01

Lab Sample ID: 280-202506-9

Date Collected: 02/02/25 12:28

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			152.47 g	141.85 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.07 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			152.47 g	141.85 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.07 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683618	02/04/25 12:50	WH	EET DEN

Client Sample ID: RR116-SA01

Lab Sample ID: 280-202506-9

Date Collected: 02/02/25 12:28

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 87.9

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.933 g	5 mL	684190	02/02/25 12:28	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 17:56	JLS	EET DEN
Total/NA	Prep	3546			5.2 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 15:48	DNM	EET DEN
Total/NA	Prep	5030A			5.496 g	5 mL	684023	02/02/25 12:28	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684420	02/12/25 00:38	DMC	EET DEN
Total/NA	Prep	3546			5.28 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 16:38	LKB	EET DEN
Total/NA	Prep	3050B			1.354 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 02:59	NKC	EET DEN
Total/NA	Prep	3050B			1.354 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/04/25 19:27	LMT	EET DEN
Total/NA	Prep	3060A			2.59 g	100 mL	216504	02/13/25 10:48	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Client Sample ID: RR116-SA02

Lab Sample ID: 280-202506-10

Date Collected: 02/02/25 13:23

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			145.44 g	133.15 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			59.95 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			145.44 g	133.15 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			59.95 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683618	02/04/25 12:50	WH	EET DEN

Eurofins Denver

Lab Chronicle

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-SA02

Lab Sample ID: 280-202506-10

Date Collected: 02/02/25 13:23

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 85.6

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.011 g	5 mL	684190	02/02/25 13:23	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 18:15	JLS	EET DEN
Total/NA	Prep	3546			5.3 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 16:09	DNM	EET DEN
Total/NA	Prep	5030A			5.695 g	5 mL	684023	02/02/25 13:23	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684420	02/12/25 00:59	DMC	EET DEN
Total/NA	Prep	3546			5.30 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 16:58	LKB	EET DEN
Total/NA	Prep	3050B			1.378 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 03:03	NKC	EET DEN
Total/NA	Prep	3050B			1.378 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/04/25 19:34	LMT	EET DEN
Total/NA	Prep	3060A			2.57 g	100 mL	216504	02/13/25 10:48	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Client Sample ID: RR116-SA03

Lab Sample ID: 280-202506-11

Date Collected: 02/02/25 13:42

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			135.77 g	141.65 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.01 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			135.77 g	141.65 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.01 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683497	02/03/25 14:52	WH	EET DEN

Client Sample ID: RR116-SA03

Lab Sample ID: 280-202506-11

Date Collected: 02/02/25 13:42

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			6.274 g	5 mL	684190	02/02/25 13:42	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 18:35	JLS	EET DEN
Total/NA	Prep	3546			5.3 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 16:30	DNM	EET DEN
Total/NA	Prep	5030A			6.046 g	5 mL	684023	02/02/25 13:42	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684420	02/12/25 01:21	DMC	EET DEN
Total/NA	Prep	3546			5.18 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 17:18	LKB	EET DEN
Total/NA	Prep	3050B			1.389 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 03:07	NKC	EET DEN

Eurofins Denver

Lab Chronicle

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-SA03

Lab Sample ID: 280-202506-11

Date Collected: 02/02/25 13:42

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 83.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.389 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/04/25 19:36	LMT	EET DEN
Total/NA	Prep	3060A			2.3 g	100 mL	216504	02/13/25 10:48	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Client Sample ID: RR116-SA04

Lab Sample ID: 280-202506-12

Date Collected: 02/02/25 14:05

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			152.19 g	139.29 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.10 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			152.19 g	139.29 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.10 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683497	02/03/25 14:52	WH	EET DEN

Client Sample ID: RR116-SA04

Lab Sample ID: 280-202506-12

Date Collected: 02/02/25 14:05

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 87.5

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.568 g	5 mL	684190	02/02/25 14:05	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684146	02/10/25 18:54	JLS	EET DEN
Total/NA	Prep	3546			5.1 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 16:51	DNM	EET DEN
Total/NA	Prep	5030A			5.58 g	5 mL	684023	02/02/25 14:05	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684420	02/12/25 01:42	DMC	EET DEN
Total/NA	Prep	3546			5.94 g	1 mL	684706	02/14/25 06:28	NMC	EET DEN
Total/NA	Analysis	8015D		1			684898	02/16/25 17:37	LKB	EET DEN
Total/NA	Prep	3050B			1.379 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 03:11	NKC	EET DEN
Total/NA	Prep	3050B			1.379 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/05/25 08:20	LMT	EET DEN
Total/NA	Prep	3060A			2.50 g	100 mL	216504	02/13/25 10:48	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Lab Chronicle

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-SA05

Lab Sample ID: 280-202506-13

Date Collected: 02/02/25 14:22

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			150.28 g	134.82 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.06 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			150.28 g	134.82 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.06 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683618	02/04/25 12:50	WH	EET DEN

Client Sample ID: RR116-SA05

Lab Sample ID: 280-202506-13

Date Collected: 02/02/25 14:22

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.925 g	5 mL	684643	02/02/25 14:22	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684621	02/13/25 15:19	JLS	EET DEN
Total/NA	Prep	3546			5.6 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 17:11	DNM	EET DEN
Total/NA	Prep	5030A			5.071 g	5 mL	684714	02/02/25 14:22	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684716	02/13/25 19:58	CCF	EET DEN
Total/NA	Prep	3546			5.2 g	1 mL	684601	02/13/25 11:31	CAR	EET DEN
Total/NA	Analysis	8015D		1			684810	02/14/25 22:52	MKW	EET DEN
Total/NA	Prep	3050B			1.178 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 03:15	NKC	EET DEN
Total/NA	Prep	3050B			1.178 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/05/25 08:23	LMT	EET DEN
Total/NA	Prep	3060A			2.50 g	100 mL	216504	02/13/25 10:48	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Client Sample ID: RR116-BG01

Lab Sample ID: 280-202506-14

Date Collected: 02/02/25 14:56

Matrix: Solid

Date Received: 02/03/25 13:20

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Soluble	Prep	29B			30 g	30 mL	215433	02/07/25 14:37	PB	EET HOU
Soluble	Analysis	29B SAR		1			217460	02/18/25 17:32	DP	EET HOU
Total/NA	Prep	29B			167.68 g	123.11 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.08 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_EC		1			217881	02/20/25 11:25	MR	EET HOU
Total/NA	Prep	29B			167.68 g	123.11 g	217026	02/17/25 09:32	CT	EET HOU
Total/NA	Prep	Sat Paste Ext			60.08 g	1.0 mL	217768	02/19/25 19:24	CT	EET HOU
Total/NA	Analysis	29B_pH		1			217880	02/20/25 11:22	MR	EET HOU
Total/NA	Analysis	D 2216		1			683497	02/03/25 14:52	WH	EET DEN

Eurofins Denver

Lab Chronicle

Client: Topographic
 Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Client Sample ID: RR116-BG01

Lab Sample ID: 280-202506-14

Date Collected: 02/02/25 14:56

Matrix: Solid

Date Received: 02/03/25 13:20

Percent Solids: 84.7

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5035			5.586 g	5 mL	684643	02/02/25 14:56	JLS	EET DEN
Total/NA	Analysis	8260D		1	5 g	5 mL	684621	02/13/25 15:38	JLS	EET DEN
Total/NA	Prep	3546			5.4 g	1 mL	684633	02/13/25 12:33	DE	EET DEN
Total/NA	Analysis	8270E SIM		1	200 uL	200 uL	684800	02/14/25 17:32	DNM	EET DEN
Total/NA	Prep	5030A			5.147 g	5 mL	684714	02/02/25 14:56	CCF	EET DEN
Total/NA	Analysis	8015D		1	0.1 mL	5 mL	684716	02/13/25 20:20	CCF	EET DEN
Total/NA	Prep	3546			5.1 g	1 mL	684601	02/13/25 11:31	CAR	EET DEN
Total/NA	Analysis	8015D		1			684810	02/14/25 23:12	MKW	EET DEN
Total/NA	Prep	3050B			1.186 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6010D		1			683703	02/05/25 03:18	NKC	EET DEN
Total/NA	Prep	3050B			1.186 g	100 mL	683490	02/04/25 08:14	AMH	EET DEN
Total/NA	Analysis	6020B		1			683721	02/05/25 08:25	LMT	EET DEN
Total/NA	Prep	3060A			2.52 g	100 mL	216504	02/13/25 10:48	SCI	EET HOU
Total/NA	Analysis	7196A		1	25 mL	25 mL	217470	02/18/25 17:55	SCI	EET HOU

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100
 EET HOU = Eurofins Houston, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Accreditation/Certification Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Laboratory: Eurofins Denver

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
A2LA	Dept. of Defense ELAP	2907.01	10-31-26
A2LA	ISO/IEC 17025	2907.01	10-31-26
Alabama	State Program	40730	09-30-12 *
Alaska (UST)	State	18-001	11-30-25
Arizona	State	AZ0713	12-20-25
Arkansas DEQ	State	19-047-0	04-21-25
California	State	2513	01-08-26
Colorado	Petroleum Storage Tank Program	2907.01 (A2LA)	10-31-26
Colorado	State	CO00026	06-30-25
Connecticut	State	PH-0686	09-30-26
Florida	NELAP	E87667	06-30-25
Georgia	State	4025	01-08-26
Illinois	NELAP	200017	05-31-25
Iowa	State	370	12-01-26
Kansas	NELAP	E-10166	04-30-25
Kentucky (WW)	State	KY98047	12-31-25
Louisiana	NELAP	30785	06-30-14 *
Louisiana (All)	NELAP	30785	06-30-25
Minnesota	NELAP	1788752	12-31-25
Nevada	State	CO00026	07-31-25
New Hampshire	NELAP	2053	04-28-25
New Jersey	NELAP	230001	06-30-25
New York	NELAP	59923	04-01-25
North Dakota	State	R-034	01-08-25 *
Oklahoma	NELAP	8614	08-31-25
Oregon	NELAP	4025	01-08-26
Pennsylvania	NELAP	013	07-31-25
South Carolina	State	72002001	01-18-25 *
Texas	NELAP	TX104704183-08-TX	09-30-09 *
Texas	NELAP	T104704183	09-30-25
US Fish & Wildlife	US Federal Programs	058448	07-31-25
USDA	US Federal Programs	P330-20-00065	12-19-25
Utah	NELAP	QUAN5	06-30-13 *
Utah	NELAP	CO00026	07-31-25
Virginia	NELAP	460232	06-14-25
Washington	State	C583	08-03-25
West Virginia DEP	State	354	11-30-25
Wisconsin	State	999615430	08-31-25
Wyoming (UST)	A2LA	2907.01	10-31-26

Laboratory: Eurofins Houston

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	88-00759	08-04-25
Florida	NELAP	E871002	06-30-25
Louisiana (All)	NELAP	03054	12-20-25
Oklahoma	NELAP	1306	08-31-25
Texas	NELAP	T104704215	07-01-26
Texas	TCEQ Water Supply	T104704215	12-28-25

* Accreditation/Certification renewal pending - accreditation/certification considered valid.

Eurofins Denver

Accreditation/Certification Summary

Client: Topographic
Project/Site: DEO Red Rocks, Colorado

Job ID: 280-202506-1

Laboratory: Eurofins Houston (Continued)

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
USDA	US Federal Programs	525-23-79-79507	03-20-26

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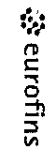
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Client Information		Sampler: <u>A. Lindsay</u>		Lab PM: <u>Servas, Cassie</u>		Carrier Tracking No(s): <u>280-147075-40066.1</u>		
Client Contact: <u>Austin Lindsay</u>		Phone: <u>405.229.6082</u>		E-Mail: <u>Cassie.Servas@et.eurofins.com</u>		Page <u>2</u> of <u>2</u>		
Company: <u>Topographic</u>		Address: <u>1900 NW Expressway, Ste. 1500</u>		City: <u>Oklahoma City</u>		Job #:		
State, Zip: <u>OK, 73118</u>		PO #: <u>405-843-4847(Tel)</u>		TAT Requested (days): <u>Standard 10 Day</u>		Preservation Codes: N - None F - MeOH		
Email: <u>Austin.Lindsay@topographic.com</u>		Project #: <u>28027900</u>		Compliance Project: <u>Yes</u> <input type="checkbox"/> <u>No</u> <input type="checkbox"/>		Other:		
Site: <u>DEO Red Rocks, Colorado</u>		SSOW#:		Advance Payment Required		Total Number of containers: <u>3</u>		
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=water/oil)	Field Filtered Sample (Yes or No)	Perform M/MSD (Yes or No)	Analysis Requested	Special Instructions/Note:
<u>ML16-3404</u>	<u>2/2/25</u>	<u>14:05</u>	<u>G</u>	<u>Solid</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	8015D-GRO 8015D-DRO 8260D-BTEX, Naphthalene & TMS 8370E-PAH 6020B-Total Metals, 10 Specific Analytes 6010D-Total Boron 2B_SAR_Calc-Sodium Absorption T196A-Hexavalent Chromium 29B_EC - Electrical Conductivity 29B_pH Moisture	<u>1-2.5 ft bgs</u>
<u>ML16-3405</u>	<u>-</u>	<u>14:22</u>	<u>-</u>	<u>Solid</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>1-2 ft bgs gnr effluent bottle</u>
<u>ML16-3601</u>	<u>-</u>	<u>14:56</u>	<u>-</u>	<u>Solid</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<u>1-2.5 ft bgs</u>
				<u>Solid</u>	<input type="checkbox"/>	<input type="checkbox"/>		
				<u>Solid</u>	<input type="checkbox"/>	<input type="checkbox"/>		
				<u>Solid</u>	<input type="checkbox"/>	<input type="checkbox"/>		
				<u>Solid</u>	<input type="checkbox"/>	<input type="checkbox"/>		
				<u>Solid</u>	<input type="checkbox"/>	<input type="checkbox"/>		
				<u>Solid</u>	<input type="checkbox"/>	<input type="checkbox"/>		
				<u>Solid</u>	<input type="checkbox"/>	<input type="checkbox"/>		
				<u>Solid</u>	<input type="checkbox"/>	<input type="checkbox"/>		
Possible Hazard Identification		<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input checked="" type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Sample Disposal: <input type="checkbox"/> Return To Client <input checked="" type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:		
Deliverable Requested: I, II, III, IV, Other (specify) <u>Basic Compliance</u>		Date: _____		Time: _____		Method of Shipment:		
Relinquished by: <u>A. Lindsay</u>		Date/Time: <u>2/3/25 13:20</u>		Company: <u>TOPO</u>		Date/Time: _____		
Relinquished by: _____		Date/Time: _____		Company: _____		Date/Time: _____		
Relinquished by: _____		Date/Time: _____		Company: _____		Date/Time: _____		
Custody Seals Intact: <u>Yes</u> <input type="checkbox"/> <u>No</u> <input type="checkbox"/>		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:				

Eurofins Denver
4955 Yarrow Street
Arvada, CO 80002
Phone: 303-736-0100 Fax: 303-431-7171

Chain of Custody Record



Environment Testing

Client Information (Sub Contract Lab)

Client Contact: N/A
Shipping/Receiving: N/A

Lab Pk.: Servas Cassie
E-Mail: Cassie.Servas@et.eurofins.com

Carrier Tracking No(s): N/A
State of Origin: Colorado

COG No.: 280-733172-1
Page: Page 1 of 2

Job #: 280-202506-1
Preservation Codes:

Company: Eurofins Environment Testing South Cent

Address: 4145 Greenbhar Dr

Due Date Requested: 2/17/2025

TAT Requested (days): N/A

Analysis Requested

City: Stamford

State Zip: TX 77477

PO #: N/A

Project #: 28027900

Project Name: DEO Red Rocks, Colorado

Site: N/A

Phone: 281-240-4200(Tel)

SSO/MS#: N/A

Matrix (Weaver Sample, Observation, Other): N/A

Field Filtered Sample (Yes or No):

Perform MS/MSD (Yes or No):

Sample ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (Weaver Sample, Observation, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
RR116-DCA01 (280-202506-1)	2/2/25	09:27	G	Solid	X	X	2	via Saturated Paste Extraction
RR116-DCA02 (280-202506-2)	2/2/25	09:50	G	Solid	X	X	2	via Saturated Paste Extraction
RR116-DCA03 (280-202506-3)	2/2/25	10:13	G	Solid	X	X	2	via Saturated Paste Extraction
RR116-TA01 (280-202506-4)	2/2/25	10:34	G	Solid	X	X	2	via Saturated Paste Extraction
RR116-TA02 (280-202506-5)	2/2/25	11:02	G	Solid	X	X	2	via Saturated Paste Extraction
RR116-TA03 (280-202506-6)	2/2/25	11:22	G	Solid	X	X	2	via Saturated Paste Extraction
RR116-TA04 (280-202506-7)	2/2/25	11:45	G	Solid	X	X	2	via Saturated Paste Extraction
RR116-TA05 (280-202506-8)	2/2/25	12:04	G	Solid	X	X	2	via Saturated Paste Extraction
RR116-SA01 (280-202506-9)	2/2/25	12:28	G	Solid	X	X	2	via Saturated Paste Extraction

Possible Hazard Identification
Unconfirmed Deliverable Requested: I, II, III, IV Other (specify) Primary Deliverable Rank: 2
Empty Kit Relinquished by: Date: Time: Method of Shipment: Months

Relinquished by: *WVAC-2* Date/Time: *02/10/2025* Company: *FEEDER*
Relinquished by: Date/Time: Company:

Relinquished by: Date/Time: Company:
Received by: Date/Time: Company:
Received by: Date/Time: Company:

Custody Seals Intact: Yes No
Custody Seal No. *310 12368*
Cooler Temperature(s) °C and Other Remarks: *310 12368*

Eurofins Denver
 4955 Yarrow Street
 Arvada, CO 80002
 Phone: 303-736-0100 Fax: 303-431 7171

Chain of Custody Record



Client Information (Sub Contract Lab)

Client Contact: Shipping/Receiving
 Eurofins Environment Testing South Cent
 Address: 4145 Greenbriar Dr
 City: Stafford
 State, Zip: TX, 77477
 Phone: 281-240-4200(Tel)
 Email: N/A
 Project Name: DECO Red Rocks, Colorado
 Site: SSOVW
 N/A

Lab P#: Servas, Cassie
 Email: Cassie.Servas@et.eurofins.com
 Carrier Tracking No(s): N/A
 State of Origin: Colorado
 ICCC No: 280-733172-2
 Page: Page 2 of 2
 Job #: 280-202506-1
 Preservation Codes:

Due Date Requested: 2/17/2025
 TAT Requested (days): N/A
 PO #: N/A
 W/O #: N/A
 Project #: 28027900
 SSOVW: N/A

Analysis Requested

Sample Identification - Client ID (Lab ID)	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Unsat, Sat, Other)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	Total Number of Containers	Special Instructions/Note:
RR116-SA02 (280-202506-10)	2/2/25	13:23	G	Solid	X	7195A/3060A	2	via Saturated Paste Extraction
RR116-SA03 (280-202506-11)	2/2/25	13:42	G	Solid	X	29B_SAR_Calc/29B_SAR_P	2	via Saturated Paste Extraction
RR116-SA04 (280-202506-12)	2/2/25	14:05	G	Solid	X	29B_EC/29B_Prep_Solid	2	via Saturated Paste Extraction
RR116-SA05 (280-202506-13)	2/2/25	14:22	G	Solid	X	29B_pH/29B_Prep_Solid	3	via Saturated Paste Extraction
RR116-BG01 (280-202506-14)	2/2/25	14:56	G	Solid	X		2	via Saturated Paste Extraction

Note: Since laboratory accreditations are subject to change, Eurofins TestAmerica places the ownership of method, analyte & accreditation compliance upon our subcontract laboratories. This sample shipment is forwarded under chain-of-custody. If the laboratory does not currently maintain accreditation in the State of Origin listed above for analysis/assess/analyze, the samples must be shipped back to the Eurofins TestAmerica laboratory or other instructions will be provided. Any changes to accreditation status should be brought to Eurofins TestAmerica attention immediately. If all requested accreditations are current to date, return the signed Chain of Custody attesting to said compliance to Eurofins TestAmerica.

Possible Hazard Identification

Unconfirmed Deliverable Requested: I II III, IV Other (specify) Primary Deliverable Rank: 2

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
 Return To Client Dispose By Lab Archive For Months

Empty Kit Relinquished by: _____ Date: _____ Time: _____ Method of Shipment: _____

Relinquished by: *[Signature]* Date/Time: *2/11/25* Company: *PERDIN*

Relinquished by: _____ Date/Time: _____ Company: _____

Received by: *[Signature]* Date/Time: *2-4-25* Company: _____

Custody Seals Intact: Yes No Custody Seal No. _____

Cooler Temperature(s) °C and Other Remarks: _____

Login Sample Receipt Checklist

Client: Topographic

Job Number: 280-202506-1

Login Number: 202506

List Number: 1

Creator: Little, Matthew L

List Source: Eurofins Denver

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	



Login Sample Receipt Checklist

Client: Topographic

Job Number: 280-202506-1

Login Number: 202506

List Number: 2

Creator: Baker, Jeremiah

List Source: Eurofins Houston

List Creation: 02/05/25 03:24 PM

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

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