



TECHNOLOGY LABORATORY, INC.

CENTRE PROFESSIONAL PARK

1012 Centre Avenue
Fort Collins, Colorado 80526
(970) 490-1414

CERTIFICATE OF ANALYSIS

Raptor Materials, LLC
8120 Gage St.
Frederick, CO 80516

Sample ID: P124-0205-MW12

Laboratory ID: C8935-01

Sampled: 02/05/25

Received: 02/05/25

Project No.: P124-DRMS WQ

Matrix: Water

<u>CAS Number</u>	<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>Method</u>	<u>Date Analyzed</u>
7429-90-5	Dissolved Aluminum	< 0.1	mg/L	0.1	EPA-200.7	02/06/25
7440-39-3	Dissolved Barium	< 0.08	mg/L	0.08	EPA-200.7	02/06/25
7440-42-8	Dissolved Boron	0.190	mg/L	0.1	EPA-200.7	02/06/25
7439-89-6	Dissolved Iron	< 0.02	mg/L	0.02	EPA-200.7	02/06/25
7439-93-2	Dissolved Lithium	< 0.05	mg/L	0.05	EPA-200.7	02/11/25
7440-36-0	Dissolved Antimony	< 0.006	mg/L	0.006	EPA-200.8	02/13/25
7440-38-2	Dissolved Arsenic	< 0.005	mg/L	0.005	EPA-200.8	02/13/25
7440-41-7	Dissolved Beryllium	< 0.003	mg/L	0.003	EPA-200.8	02/13/25
7440-43-9	Dissolved Cadmium	< 0.001	mg/L	0.001	EPA-200.8	02/13/25
7440-47-3	Dissolved Chromium	< 0.004	mg/L	0.004	EPA-200.8	02/13/25
7440-48-4	Dissolved Cobalt	< 0.006	mg/L	0.006	EPA-200.8	02/13/25
7440-50-8	Dissolved Copper	< 0.005	mg/L	0.005	EPA-200.8	02/13/25
7439-92-1	Dissolved Lead	< 0.003	mg/L	0.003	EPA-200.8	02/13/25
7439-96-5	Dissolved Manganese	0.164	mg/L	0.004	EPA-200.8	02/13/25
7439-98-7	Dissolved Molybdenum	0.011	mg/L	0.008	EPA-200.8	02/13/25
7440-02-0	Dissolved Nickel	< 0.005	mg/L	0.005	EPA-200.8	02/13/25
7782-49-2	Dissolved Selenium	< 0.005	mg/L	0.005	EPA-200.8	02/13/25
7440-22-4	Dissolved Silver	< 0.002	mg/L	0.002	EPA-200.8	02/13/25
7440-28-0	Dissolved Thallium	< 0.001	mg/L	0.001	EPA-200.8	02/13/25
7440-61-1	Dissolved Uranium	0.008	mg/L	0.003	EPA-200.8	02/13/25
7440-62-2	Dissolved Vanadium	< 0.09	mg/L	0.09	EPA-200.8	02/13/25
7440-66-6	Dissolved Zinc	0.004	mg/L	0.002	EPA-200.8	02/13/25
7439-97-6	Dissolved Mercury	< 5.0	ng/L	5	EPA-245.7	02/06/25

The results contained in this report
relate only to those items tested.



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<u>CAS Number</u>	<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>Method</u>	<u>Date Analyzed</u>
84145-82-4	Nitrate-N	1.95	mg/L	0.1	EPA-300.0	02/06/25
14797-65-0	Nitrite-N	< 0.05	mg/L	0.05	EPA-300.0	02/06/25
18785-72-3	Sulfate	220	mg/L	0.3	EPA-300.0	02/06/25
N/A	Total Dissolved Solids (TDS)	742	mg/L	5	SM-2540 C	02/07/25

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Raptor Materials, LLC
8120 Gage St.
Frederick, CO 80516

Sampled: 02/05/25
Received: 02/05/25

Sample ID: P124-0205-MW12-Dup
Laboratory ID: C8935-02

Project No.: P124-DRMS WQ
Matrix: Water

<u>CAS Number</u>	<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>Method</u>	<u>Date Analyzed</u>
7429-90-5	Dissolved Aluminum	< 0.1	mg/L	0.1	EPA-200.7	02/06/25
7440-39-3	Dissolved Barium	< 0.08	mg/L	0.08	EPA-200.7	02/06/25
7440-42-8	Dissolved Boron	0.185	mg/L	0.1	EPA-200.7	02/06/25
7439-89-6	Dissolved Iron	< 0.02	mg/L	0.02	EPA-200.7	02/06/25
7439-93-2	Dissolved Lithium	< 0.05	mg/L	0.05	EPA-200.7	02/11/25
7440-36-0	Dissolved Antimony	< 0.006	mg/L	0.006	EPA-200.8	02/13/25
7440-38-2	Dissolved Arsenic	< 0.005	mg/L	0.005	EPA-200.8	02/13/25
7440-41-7	Dissolved Beryllium	< 0.003	mg/L	0.003	EPA-200.8	02/13/25
7440-43-9	Dissolved Cadmium	< 0.001	mg/L	0.001	EPA-200.8	02/13/25
7440-47-3	Dissolved Chromium	< 0.004	mg/L	0.004	EPA-200.8	02/13/25
7440-48-4	Dissolved Cobalt	< 0.006	mg/L	0.006	EPA-200.8	02/13/25
7440-50-8	Dissolved Copper	< 0.005	mg/L	0.005	EPA-200.8	02/13/25
7439-92-1	Dissolved Lead	< 0.003	mg/L	0.003	EPA-200.8	02/13/25
7439-96-5	Dissolved Manganese	0.116	mg/L	0.004	EPA-200.8	02/13/25
7439-98-7	Dissolved Molybdenum	< 0.008	mg/L	0.008	EPA-200.8	02/13/25
7440-02-0	Dissolved Nickel	< 0.005	mg/L	0.005	EPA-200.8	02/13/25
7782-49-2	Dissolved Selenium	< 0.005	mg/L	0.005	EPA-200.8	02/13/25
7440-22-4	Dissolved Silver	< 0.002	mg/L	0.002	EPA-200.8	02/13/25
7440-28-0	Dissolved Thallium	< 0.001	mg/L	0.001	EPA-200.8	02/13/25
7440-61-1	Dissolved Uranium	0.008	mg/L	0.003	EPA-200.8	02/13/25
7440-62-2	Dissolved Vanadium	< 0.09	mg/L	0.09	EPA-200.8	02/13/25
7440-66-6	Dissolved Zinc	0.004	mg/L	0.002	EPA-200.8	02/13/25
7439-97-6	Dissolved Mercury	< 5.0	ng/L	5	EPA-245.7	02/06/25

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CERTIFICATE OF ANALYSIS

Raptor Materials, LLC
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Sample ID: P124-0205-MW12-Dup

Laboratory ID: C8935-02

Sampled: 02/05/25

Received: 02/05/25

Project No.: P124-DRMS WQ

Matrix: Water

<u>CAS Number</u>	<u>Parameter</u>	<u>Result</u>	<u>Units</u>	<u>MDL</u>	<u>Method</u>	<u>Date Analyzed</u>
84145-82-4	Nitrate-N	1.98	mg/L	0.1	EPA-300.0	02/06/25
14797-65-0	Nitrite-N	< 0.05	mg/L	0.05	EPA-300.0	02/06/25
18785-72-3	Sulfate	220	mg/L	0.3	EPA-300.0	02/06/25
N/A	Total Dissolved Solids (TDS)	784	mg/L	5	SM-2540 C	02/07/25

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QA/QC Certificate of Analysis

Project No.: P124-DRMSWQ / p124-0205
Date Sampled: 2/5/2025
Lab ID: C8935

Date			Calibration	IPC	IPC	LFM	LFM	LFB	LFB		QCS	QCS
Analyzed	Parameter by EPA 200.7	Batch ID	Blank	% Recovery	% Limits	% Recovery	% Limits	% Recovery	% Limits	LRB	%Recovery	% Limits
2/6/2025	Aluminum, Dissolved	2/6/2025	ND	100	95-105	128	70-130	114	85-115	< MDL	103	95-105
2/6/2025	Barium, Dissolved	2/6/2025	ND	100	95-105	101	70-130	98	85-115	< MDL	101	95-105
2/6/2025	Boron, Dissolved	2/6/2025	ND	99	95-105	93	70-130	90	85-115	< MDL	95	95-105
2/6/2025	Iron, Dissolved	2/6/2025	ND	102	95-105	117	70-130	82	85-115	< MDL	105	95-105
2/11/2025	Lithium, Dissolved	2/11/2025	ND	99	95-105	130	70-130	102	85-115	< MDL	102	95-105

Date			Calibration	ICC	ICC	LFM	LFM	LFB	LFB		QCS	QCS
Analyzed	Parameter by EPA 200.8	Batch ID	Blank	% Recovery	% Limits	% Recovery	% Limits	% Recovery	% Limits	LRB	%Recovery	% Limits
2/13/2025	Antimony, Dissolved	2/13/2025	< MDL	97	90-110	110	70-130	106	85-115	< MDL	109	90-110
2/13/2025	Arsenic, Dissolved	2/13/2025	< MDL	90	90-110	119	70-130	109	85-115	< MDL	93	90-110
2/13/2025	Beryllium, Dissolved	2/13/2025	< MDL	100	90-110	70	70-130	103	85-115	< MDL	103	90-110
2/13/2025	Cadmium, Dissolved	2/13/2025	< MDL	90	90-110	101	70-130	105	85-115	< MDL	94	90-110
2/13/2025	Chromium, Dissolved	2/13/2025	< MDL	92	90-110	114	70-130	114	85-115	< MDL	97	90-110
2/13/2025	Cobalt, Dissolved	2/13/2025	< MDL	94	90-110	111	70-130	113	85-115	< MDL	95	90-110
2/13/2025	Copper, Dissolved	2/13/2025	< MDL	91	90-110	100	70-130	105	85-115	< MDL	105	90-110
2/13/2025	Lead, Dissolved	2/13/2025	< MDL	100	90-110	110	70-130	105	85-115	< MDL	109	90-110
2/13/2025	Manganese, Dissolved	2/13/2025	< MDL	92	90-110	122	70-130	108	85-115	< MDL	96	90-110
2/13/2025	Molybdenum, Dissolved	2/13/2025	< MDL	94	90-110	130	70-130	111	85-115	< MDL	101	90-110
2/13/2025	Nickel, Dissolved	2/13/2025	< MDL	91	90-110	111	70-130	109	85-115	< MDL	97	90-110
2/13/2025	Selenium, Dissolved	2/13/2025	< MDL	95	90-110	114	70-130	112	85-115	< MDL	103	90-110
2/13/2025	Silver, Dissolved	2/13/2025	< MDL	103	90-110	84	70-130	113	85-115	< MDL	104	90-110
2/13/2025	Thallium, Dissolved	2/13/2025	< MDL	99	90-110	111	70-130	101	85-115	< MDL	107	90-110
2/13/2025	Uranium, Dissolved	2/13/2025	< MDL	100	90-110	114	70-130	103	85-115	< MDL	103	90-110
2/13/2025	Vanadium, Dissolved	2/13/2025	< MDL	91	90-110	125	70-130	112	85-115	< MDL	94	90-110
2/13/2025	Zinc, Dissolved	2/13/2025	< MDL	93	90-110	114	70-130	113	85-115	< MDL	98	90-110

Date			Blank	LFB	LFB	MS	MS
Analyzed	Parameter by EPA 300.0	Batch ID	Amount	% Recovery	% Limits	% Recovery	% Limits
2/6/2025	Nitrate	2/6/2025	< MDL	93	90-110	98	80-120
2/6/2025	Nitrite	2/6/2025	< MDL	93	90-110	85	80-120
2/6/2025	Sulfate	2/6/2025	< MDL	93	90-110	98	80-120

Date			IPR	IPR	QCS	QCS		MS	MS	MSD	MSD
Analyzed	Parameter by EPA 245.7	Batch ID	% Recovery	% Limits	%Recovery	% Limits	MB	% Recovery	% Limits	% Recovery	% Limits
2/6/2025	Mercury	2/6/2025	99	78-108	85	76-113	ND	80	63-111	93	63-111

*ICC = Initial Calibration Check
*IPC = Instrument Performance Check
*LCS = Laboratory Control Sample
*LFB = Laboratory Fortified Blank
*LFM = Laboratory Fortified Matrix
*LRB = Laboratory Reagent Blank
*MB = Matrix Blank
*MDL = Method Detection Limit

*MS = Matrix Spike
*MSD = Matrix Spike Duplicate
*N/A = Not Applicable
*ND = Not detected at MDL
*OPR = Ongoing Precision & Recovery
*QC = Quality Control Sample
*QCS = Second Source QC Sample

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FORT COLLINS, CO 80526
Phone: (970)490-1414

www.techlabusa.com info@techlabusa.com

W.O. NUMBER C8935

CHAIN-OF-CUSTODY REPORT

W.O. NUMBER C8935

[illegible]

**TECHNOLOGY
LABORATORY, INC.**

1012 Centre Avenue, Suite 101
Fort Collins, Colorado 80526
www.techlabusa.com
info@techlabusa.com

ANALYTICAL CERTIFICATION

“I certify that these analyses and resulting report (s) were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly analyze all samples and accurately report the results. I certify that all analyses were performed in accordance with methods approved for WASTEWATER under the latest revision to 40 CFR Part 136. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for analyzing the wastewater samples and generating the report (s), the analyses, report, and information submitted are, to the best of my knowledge and belief, true, accurate, and complete.”

Laboratory: TECHNOLOGY LABORATORY, INC.

Address: 1012 Centre Avenue
Fort Collins, CO 80526

Project Number: P124-DRMS WQ

Laboratory ID: C8935

Analyst Initials: TP, CB, DJL

Date: 02/18/2025

Laboratory Manager: Valerie P. Meiers



Valerie P. Meiers
Laboratory Director, Acting
Technology Laboratory, Inc.