



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

Sampled: 05/29/25
Received: 05/30/25

Sample ID: MW-12A

Project No.: P124-DRMS WQ-
MW12

Laboratory ID: C9793-01

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	06/04/25
7440-39-3	Dissolved Barium	< 0.08	mg/L	0.08	EPA-200.7	06/04/25
7440-42-8	Dissolved Boron	0.212	mg/L	0.1	EPA-200.7	06/04/25
7439-89-6	Dissolved Iron	< 0.02	mg/L	0.02	EPA-200.7	06/04/25
7439-93-2	Dissolved Lithium	< 0.05	mg/L	0.05	EPA-200.7	06/04/25
7440-62-2	Dissolved Vanadium	< 0.005	mg/L	0.005	EPA-200.7	06/04/25
7440-36-0	Dissolved Antimony	< 0.006	mg/L	0.006	EPA-200.8	06/05/25
7440-38-2	Dissolved Arsenic	< 0.005	mg/L	0.005	EPA-200.8	06/05/25
7440-41-7	Dissolved Beryllium	< 0.003	mg/L	0.003	EPA-200.8	06/05/25
7440-43-9	Dissolved Cadmium	< 0.001	mg/L	0.001	EPA-200.8	06/05/25
7440-47-3	Dissolved Chromium	< 0.004	mg/L	0.004	EPA-200.8	06/05/25
7440-48-4	Dissolved Cobalt	< 0.006	mg/L	0.006	EPA-200.8	06/05/25
7440-50-8	Dissolved Copper	< 0.005	mg/L	0.005	EPA-200.8	06/05/25
7439-92-1	Dissolved Lead	< 0.003	mg/L	0.003	EPA-200.8	06/05/25
7439-96-5	Dissolved Manganese	0.108	mg/L	0.004	EPA-200.8	06/05/25
7439-98-7	Dissolved Molybdenum	< 0.008	mg/L	0.008	EPA-200.8	06/05/25
7440-02-0	Dissolved Nickel	< 0.005	mg/L	0.005	EPA-200.8	06/05/25
7782-49-2	Dissolved Selenium	< 0.005	mg/L	0.005	EPA-200.8	06/05/25
7440-22-4	Dissolved Silver	< 0.002	mg/L	0.002	EPA-200.8	06/05/25
7440-28-0	Dissolved Thallium	< 0.001	mg/L	0.001	EPA-200.8	06/05/25
7440-61-1	Dissolved Uranium	0.009	mg/L	0.003	EPA-200.8	06/05/25
7440-66-6	Dissolved Zinc	< 0.002	mg/L	0.002	EPA-200.8	06/05/25
7439-97-6	Dissolved Mercury	< 5.0	ng/L	5	EPA-245.7	06/02/25

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	2.24	mg/L	0.1	EPA-300.0	05/30/25
14797-65-0	Nitrite-N	0.164	mg/L	0.05	EPA-300.0	05/30/25
18785-72-3	Sulfate	231	mg/L	0.3	EPA-300.0	05/30/25
N/A	Total Dissolved Solids (TDS)	602	mg/L	5	SM-2540 C	05/30/25

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CERTIFICATE OF ANALYSIS

Raptor Materials, LLC
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Frederick, CO 80516

Sampled: 05/29/25
Received: 05/30/25

Sample ID: MW-12B Duplicate

Project No.: P124-DRMS WQ-
MW12

Laboratory ID: C9793-02

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	06/04/25
7440-39-3	Dissolved Barium	< 0.08	mg/L	0.08	EPA-200.7	06/04/25
7440-42-8	Dissolved Boron	0.209	mg/L	0.1	EPA-200.7	06/04/25
7439-89-6	Dissolved Iron	< 0.02	mg/L	0.02	EPA-200.7	06/04/25
7439-93-2	Dissolved Lithium	< 0.05	mg/L	0.05	EPA-200.7	06/04/25
7440-62-2	Dissolved Vanadium	< 0.005	mg/L	0.005	EPA-200.7	06/04/25
7440-36-0	Dissolved Antimony	< 0.006	mg/L	0.006	EPA-200.8	06/05/25
7440-38-2	Dissolved Arsenic	< 0.005	mg/L	0.005	EPA-200.8	06/05/25
7440-41-7	Dissolved Beryllium	< 0.003	mg/L	0.003	EPA-200.8	06/05/25
7440-43-9	Dissolved Cadmium	< 0.001	mg/L	0.001	EPA-200.8	06/05/25
7440-47-3	Dissolved Chromium	< 0.004	mg/L	0.004	EPA-200.8	06/05/25
7440-48-4	Dissolved Cobalt	< 0.006	mg/L	0.006	EPA-200.8	06/05/25
7440-50-8	Dissolved Copper	< 0.005	mg/L	0.005	EPA-200.8	06/05/25
7439-92-1	Dissolved Lead	< 0.003	mg/L	0.003	EPA-200.8	06/05/25
7439-96-5	Dissolved Manganese	0.109	mg/L	0.004	EPA-200.8	06/05/25
7439-98-7	Dissolved Molybdenum	0.008	mg/L	0.008	EPA-200.8	06/05/25
7440-02-0	Dissolved Nickel	< 0.005	mg/L	0.005	EPA-200.8	06/05/25
7782-49-2	Dissolved Selenium	< 0.005	mg/L	0.005	EPA-200.8	06/05/25
7440-22-4	Dissolved Silver	< 0.002	mg/L	0.002	EPA-200.8	06/05/25
7440-28-0	Dissolved Thallium	< 0.001	mg/L	0.001	EPA-200.8	06/05/25
7440-61-1	Dissolved Uranium	0.009	mg/L	0.003	EPA-200.8	06/05/25
7440-66-6	Dissolved Zinc	< 0.002	mg/L	0.002	EPA-200.8	06/05/25
7439-97-6	Dissolved Mercury	< 5.0	ng/L	5	EPA-245.7	06/02/25

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CERTIFICATE OF ANALYSIS

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Frederick, CO 80516

Sample ID: MW-12B Duplicate

Laboratory ID: C9793-02

Sampled: 05/29/25

Received: 05/30/25

Project No.: P124-DRMS WQ-
MW12

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	2.25	mg/L	0.1	EPA-300.0	05/30/25
14797-65-0	Nitrite-N	0.153	mg/L	0.05	EPA-300.0	05/30/25
18785-72-3	Sulfate	231	mg/L	0.3	EPA-300.0	05/30/25
N/A	Total Dissolved Solids (TDS)	668	mg/L	5	SM-2540 C	05/30/25

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QA/QC Certificate of Analysis

Project No.: P124-DRMS WQ
Date Sampled: 5/29/2025
Lab ID: C9793

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
6/4/2025	Aluminum, Dissolved	6/4/2025	ND	99	95-105	104	70-130	99	85-115	< MDL	97	95-105
6/4/2025	Barium, Dissolved	6/4/2025	ND	99	95-105	101	70-130	103	85-115	< MDL	101	95-105
6/4/2025	Boron, Dissolved	6/4/2025	ND	99	95-105	88	70-130	88	85-115	< MDL	98	95-105
6/4/2025	Iron, Dissolved	6/4/2025	ND	100	95-105	102	70-130	104	85-115	< MDL	102	95-105
6/4/2025	Lithium, Dissolved	6/4/2025	ND	98	95-105	130	70-130	104	85-115	< MDL	104	95-105
6/4/2025	Vanadium, Dissolved	6/4/2025	< MDL	100	95-105	100	70-130	100	85-115	< MDL	99	95-105

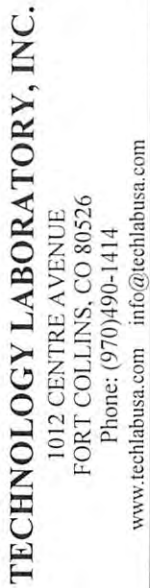
Date			Calibration	ICC	ICC	LFM	LFM	LFB	LFB		QCS	QCS
Analyzed	Parameter by EPA 200.8	Batch ID	Blank	% Recovery	% Limits	% Recovery	% Limits	% Recovery	% Limits	LRB	%Recovery	% Limits
6/5/2025	Antimony, Dissolved	6/5/2025	< MDL	102	90-110	110	70-130	103	85-115	< MDL	103	90-110
6/5/2025	Arsenic, Dissolved	6/5/2025	< MDL	106	90-110	119	70-130	102	85-115	< MDL	102	90-110
6/5/2025	Beryllium, Dissolved	6/5/2025	< MDL	101	90-110	72	70-130	97	85-115	< MDL	97	90-110
6/5/2025	Cadmium, Dissolved	6/5/2025	< MDL	100	90-110	97	70-130	91	85-115	< MDL	91	90-110
6/5/2025	Chromium, Dissolved	6/5/2025	< MDL	102	90-110	79	70-130	99	85-115	< MDL	99	90-110
6/5/2025	Cobalt, Dissolved	6/5/2025	< MDL	104	90-110	71	70-130	101	85-115	< MDL	101	90-110
6/5/2025	Copper, Dissolved	6/5/2025	< MDL	100	90-110	78	70-130	96	85-115	< MDL	96	90-110
6/5/2025	Lead, Dissolved	6/5/2025	< MDL	97	90-110	96	70-130	95	85-115	< MDL	95	90-110
6/5/2025	Manganese, Dissolved	6/5/2025	< MDL	103	90-110	91	70-130	99	85-115	< MDL	99	90-110
6/5/2025	Molybdenum, Dissolved	6/5/2025	< MDL	103	90-110	84	70-130	101	85-115	< MDL	101	90-110
6/5/2025	Nickel, Dissolved	6/5/2025	< MDL	102	90-110	82	70-130	102	85-115	< MDL	102	90-110
6/5/2025	Selenium, Dissolved	6/5/2025	< MDL	99	90-110	95	70-130	104	85-115	< MDL	104	90-110
6/5/2025	Silver, Dissolved	6/5/2025	< MDL	101	90-110	94	70-130	98	85-115	< MDL	98	90-110
6/5/2025	Thallium, Dissolved	6/5/2025	< MDL	97	90-110	97	70-130	97	85-115	< MDL	97	90-110
6/5/2025	Uranium, Dissolved	6/5/2025	< MDL	96	90-110	95	70-130	96	85-115	< MDL	96	90-110
6/5/2025	Zinc, Dissolved	6/5/2025	< MDL	100	90-110	89	70-130	91	85-115	< MDL	91	90-110

Date			Blank	LFB	LFB	MS	MS
Analyzed	Parameter by EPA 300.0	Batch ID	Amount	% Recovery	% Limits	% Recovery	% Limits
5/30/2025	Nitrate	5/30/2025	< MDL	108	90-110	110	80-120
5/30/2025	Nitrite	5/30/2025	< MDL	96	90-110	99	80-120
5/30/2025	Sulfate	5/30/2025	< MDL	101	90-110	100	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
6/2/2025	Mercury	6/2/2025	79	78-108	77	76-113	ND	82	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
*NA = Not Applicable
*ND = Not detected at MDL
*OPR = Ongoing Precision & Recovery
*QC = Quality Control Sample
*QCS = Second Source QC Sample



W.O. NUMBER C9793

CHAIN-OF-CUSTODY REPORT

W.O. NUMBER C9793

[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: C9793

Analyst Initials: DL, TP, EH

Date: 06/10/2025

Laboratory Manager: Valerie P. Meiers



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