

## **DATA PACKAGE**

**METALS** 

**PROJECT NAME: WASTE WATER** 

ZIMMER BIOMET

10 Pomeroy Rd

Parsippany-Troy Hills, NJ - 07054

Phone No: 862-308-3495

ORDER ID: Q1967

**ATTENTION: Charles Tengwall** 







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# **Cover Page**

Order ID: Q1967

Project ID: Waste Water

**Client:** Zimmer Biomet

#### **Lab Sample Number**

#### **Client Sample Number**

Q1967-01 RECLAIM-TANK
Q1967-02 BOOSTER-1
Q1967-03 ACID-PIT
Q1967-04 CHAMBER-WASHER
Q1967-05 PORT-SAMPLE

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature :		
Signature .	 Date:	5/20/2025

NYDOH CERTIFICATION NO - 11376 NJDEP CERTIFICATION NO - 20012

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284 Sheffield Street, Mountainside, NJ 07092 Phone: 908 789 8900 Fax: 908 789 8922

### CASE NARRATIVE

**Zimmer Biomet** 

**Project Name: Waste Water** 

Project # N/A **Order ID # O1967** 

**Test Name: Metals Group3** 

#### A. Number of Samples and Date of Receipt:

5 Water samples were received on 05/06/2025.

#### **B. Parameters:**

According to the Chain of Custody document, the following analyses were requested: Metals Group3. This data package contains results for Metals Group3.

#### C. Analytical Techniques:

The analysis and digestion of Metals Group3 was based on method 200.7.

#### D. OA/ OC Samples:

The Holding Times were met for all analysis.

Sample RECLAIM-TANK, ACID-PIT, PORT-SAMPLE were diluted due to highly contaminated matrix to avoid the damage to detector.

The Blank Spike met requirements for all samples.

The Duplicate analysis met criteria for all samples.

The Matrix Spike analysis met criteria for all samples.

The Matrix Spike Duplicate analysis met criteria for all samples.

The Blank analysis did not indicate the presence of lab contamination.

The Calibration met the requirements.

The Serial Dilution met the acceptable requirements.

#### **E. Additional Comments:**

LLCCV & LLICV are not required for 200.7 method. The % recovery was outside of acceptance limit for Zinc of CCV04 in analytical sequence LB135744. Between CCV03 and CCV04 none of the samples were analyzed, therefore no further corrective action was taken.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature		
Signature		

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#### DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following "Results Qualifiers" are used:

- J Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
- U Indicates the analyte was analyzed for, but not detected.
- ND Indicates the analyte was analyzed for, but not detected
- E Indicates the reported value is estimated because of the presence of interference
- M Indicates Duplicate injection precision not met.
- N Indicates the spiked sample recovery is not within control limits.
- S Indicates the reported value was determined by the Method of Standard Addition (MSA).
- \* Indicates that the duplicate analysis is not within control limits.
- + Indicates the correlation coefficient for the MSA is less than 0.995.
- D Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
- M Method qualifiers
  - **"P"** for ICP instrument
  - "PM" for ICP when Microwave Digestion is used
  - "CV" for Manual Cold Vapor AA
  - "AV" for automated Cold Vapor AA
  - "CA" for MIDI-Distillation Spectrophotometric "AS" for Semi –Automated Spectrophotometric
  - "C" for Manual Spectrophotometric
  - **"T"** for Titrimetric
  - "NR" for analyte not required to be analyzed
- OR Indicates the analyte's concentration exceeds the calibrated range of the
  - instrument for that specific analysis.
- Q Indicates the LCS did not meet the control limits requirements
- H Sample Analysis Out Of Hold Time

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TECHNICAL GROUP

#### APPENDIX A

#### **QA REVIEW GENERAL DOCUMENTATION**

Project #: Q1967

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication, airbill, sample management lab chronicle, login page)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	<u>√</u> <u>√</u> <u>√</u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<u> </u>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<u>*</u> <u>*</u> <u>*</u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<del>'</del> <del>'</del> <del>'</del> <del>'</del> <del>'</del> <del>'</del> <del>'</del> <del>'</del>
Does the case narrative summarize all QC failure?	<u> </u>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature: SOHIL JODHANI Date: 05/20/2025

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Q1967

SDG No.:

284 Sheffield Street, Mountainside, New Jersey 07092, Phone: 908 789 8900, Fax: 908 789 8922

# Hit Summary Sheet SW-846

Q1967 Order ID:

Client:	Zimmer Biomet			Project ID	:	Waste Water		
Sample ID	Client ID	Matrix	Parameter	Concentration	C	MDL	RDL	Units
<b>Client ID</b> : Q1967-01	RECLAIM-TANK RECLAIM-TANK	Water	Zinc	22300	D	10.0	100	ug/L
Client ID : Q1967-02	BOOSTER-1 BOOSTER-1	Water	Zinc	132		2.00	20.0	ug/L
Client ID : Q1967-03	ACID-PIT ACID-PIT	Water	Zinc	81100	D	50.0	500	ug/L
<b>Client ID</b> : Q1967-04	CHAMBER-WASHER CHAMBER-WASHER	Water	Zinc	31.6		2.00	20.0	ug/L
<b>Client ID</b> : Q1967-05	PORT-SAMPLE PORT-SAMPLE	Water	Zinc	22300	D	10.0	100	ug/L

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# SAMPLE DATA

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#### **Report of Analysis**

Client: Zimmer Biomet Date Collected: 05/05/25 Project: Waste Water Date Received: 05/06/25 Client Sample ID: RECLAIM-TANK SDG No.: Q1967 Lab Sample ID: Q1967-01 Matrix: Water Level (low/med): low % Solid: 0

Cas	Parameter	Conc.	Qua. D	F MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-66-6	Zinc	22300	D 5	10.0	100	ug/L	05/08/25 10:10	05/13/25 15:04	EPA 200.7	,

Color Before: Colorless

Clarity Before: Clear

Clear

Clarity After:

Texture:
Artifacts:

Color After: Colorless

Metals Group3

U = Not Detected

Comments:

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence

of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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#### **Report of Analysis**



Cas	Parameter	Conc.	Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-66-6	Zinc	132	1 2.00	20.0	ug/L	05/08/25 10:10	05/13/25 15:08	EPA 200.7	,

Color Before: Colorless

Clarity Before:

Clarity After:

Clear Clear Texture:
Artifacts:

Color After:
Comments:

Metals Group3

Colorless

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

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of interference.

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#### **Report of Analysis**



Cas	Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-66-6	Zinc	81100	D	25	50.0	500	ug/L	05/08/25 10:10	05/13/25 15:28	B EPA 200.7	7

Color Before: Gray Clarity Before: Cloudy

Clarity After:

Cloudy

Comments: Metals Group3

Gray

U = Not Detected

Color After:

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

Texture:

Artifacts:

E = Indicates the reported value is estimated because of the presence

of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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Fax: 908 789 8922

#### **Report of Analysis**

Client: Zimmer Biomet Date Collected: 05/05/25 Project: Waste Water Date Received: 05/06/25 Client Sample ID: CHAMBER-WASHER SDG No.: Q1967 Lab Sample ID: Q1967-04 Matrix: Water Level (low/med): low % Solid: 0

Cas	Parameter	Conc.	Qua. DF MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-66-6	Zinc	31.6	1 2.00	20.0	ug/L	05/08/25 10:10	05/13/25 15:23	EPA 200.7	1

Color Before: Colorless Clarity Before: Clear Texture:

Color After: Colorless Clarity After: Clear Artifacts:

Comments: Metals Group3

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence

of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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#### **Report of Analysis**

Client: Zimmer Biomet Date Collected: 05/05/25 Project: Waste Water Date Received: 05/06/25 Client Sample ID: PORT-SAMPLE SDG No.: Q1967 Lab Sample ID: Q1967-05 Matrix: Water Level (low/med): low % Solid: 0

Cas	Parameter	Conc.	Qua	. DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.	Prep Met.
7440-66-6	Zinc	22300	D	5	10.0	100	ug/L	05/08/25 10:10	05/13/25 15:44	EPA 200.	7

Color Before: Colorless Clarity Before: Clear

Color After: Colorless Clarity After: Clear

Comments: Metals Group3

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

Texture:

Artifacts:

E = Indicates the reported value is estimated because of the presence

of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

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LAB CHRONICLE

OrderID: Q1967

Contact:

Client: Zimmer Biomet

Charles Tengwall

OrderDate: et Project:

Location: L41

5/6/2025 12:11:18 PM

Waste Water

LabID ClientID Matrix Test Method Sample Date **Prep Date Anal Date** Received Q1967-01 **RECLAIM-TANK** Water 05/05/25 05/06/25 Metals Group3 200.7 05/08/25 05/13/25 05/05/25 Q1967-02 **BOOSTER-1** Water 05/06/25 Metals Group3 200.7 05/08/25 05/13/25 Q1967-03 **ACID-PIT** Water 05/05/25 05/06/25 Metals Group3 200.7 05/08/25 05/13/25 Q1967-04 **CHAMBER-WASHER** Water 05/05/25 05/06/25 Metals Group3 200.7 05/08/25 05/13/25 05/05/25 05/06/25 Q1967-05 **PORT-SAMPLE** Water Metals Group3 200.7 05/08/25 05/13/25

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# SHIPPING DOCUMENTS

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# 284 Sheffield Street, Mountainside, NJ 07092 (908) 789-8900 · Fax (908) 789-8922

ALLIANCE PROJECT NO. QUOTE NO.

www.chemtech.net COC Number

	CLIENT INFORMATION	CLIENT PROJECT INFORMATION								CLIENT BILLING INFORMATION								
COMPANY:	Zimmer Biomet	PROJECT NAME: Zimme/ Zinc Supples 1								BILL TO: Charles Tengual PO#:								
ADDRESS: /	O pomerox Rd		PROJECT NO .: LOCATION: ADDRESS: 10 BMCray								4 1	RU						
0	STATE: N) ZIP:07053	PROJEC	PROJECT MANAGER: CITY Parsippens								STA	TE: NJ	:ZIP:07054					
	Charles Tenguall	e-mail: <	Charles Temper (1607)								PHO							
PHONE: 867	_308-3495 FAX:	PHONE	ANALYSIS								3							
	DATA TURNAROUND INFORMATION			ATA	DELIVE	RABLE IN	FORM	ATION	100	FILE				,	Ļ	Ļ		
*TO BE APPRO	DAYS*	□ Leve	l 2 (Res l 3 (Res aw Data	sults - sults - a)	+ QC) 🛄   + QC 🔲	Level 4 (QC NJ Reduced NYS ASP A Other	US NY:	EPA CI	.Р 🧳	/3.	/4	/5	/6	/	/	/9		
-		+	SAM	PI F	SAN	//PLE	Si	H	15 11		PRE	SERVA	TIVES				CO. ST. Co.	DMMENTS
ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX				TIME	OF BOTTLES										A-HCI B-HN03	fy Preservatives D-NaOH E-ICE
1.	Recham Tank	+	Ö	5	5/Che	10:05	**:	1	2	3	4	5	6	7	8	9	C-H2SO4	F-OTHER
		+	$\vdash$		110 [45]					_					_	-		
2.	Booster #1	-			$ \vdash$	10:05							_		_	-		
3.	Acid Pit	-				10:11												
4.	Chamber Wisher					(0:07												
5.	Port Sample				V	(0:13												
6.	1																	
7.																		
8.																		
9.																		
10.																		
	SAMPLE CUSTODY MUST BE DOO	CUMENTE	) BEL	OW	EACH TII	ME SAMP	LES CI	IANGE	POSS	ESSIO	N INCL	UDING	COUR	IER DE	LIVEF	RΥ	Le .	
RELINQUISHED B	J5/23 J46/14				Condition	ons of bottles onto	or coolers	at receip	t: 0 00				NT DO		EMP			°C
2.	2.				Tei	MP 2	) & C	0	ALL	uStr	nen	+ 4	act	05	+1	7	[R 61	JA#1
REMODUSHED B	y sampler: Date/Time: 1438 Received by: 5-6-25 3.				Page	of		CLIENT		Hand De					-1-1	T	Shipmen	t Complete
Q1967 <sup>024</sup>	WHITE - ALLIAN	ICE COPY FO	R RETU	RN TC		16/of-1	7- ALLIA	NCE COF	PΥ	PINK - S	AMPLER	COPY					□ YES	□ NO





### Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
5.10 2.7752. 33.111131	001.2.1.1.200011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New sersey	20012
New York	11376
Pennsylvania	68-00548
Cail Dawrit	505 04 004 00444
Soil Permit	525-24-234-08441
Texas	T104704488

QA Control Code: A2070148