



ANALYTICAL REPORT

PREPARED FOR

Attn: Jay Tommasin
Transco Railway Products
PO BOX 112
Oelwein, Iowa 50662

Generated 3/13/2026 8:02:55 AM

JOB DESCRIPTION

Beneficial Use - Steel Shot

JOB NUMBER

310-326351-1

Eurofins Cedar Falls

Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

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 Environment Testing North Central, LLC Project Manager.

Authorization



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Case Narrative

Client: Transco Railway Products
Project: Beneficial Use - Steel Shot

Job ID: 310-326351-1

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Job Narrative 310-326351-1

The analytical test results presented in this report meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page, unless otherwise noted. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable. Regulated compliance samples (e.g. SDWA, NPDES) must comply with associated agency requirements/permits.

- Matrix-specific batch QC (e.g., MS, MSD, SD) may not be reported when insufficient sample volume is available or when site-specific QC samples are not submitted. In such cases, a Laboratory Control Sample Duplicate (LCSD) may be analyzed to provide precision data for the batch.
- For samples analyzed using surrogate and/or isotope dilution analytes, any recoveries falling outside of established acceptance criteria are re-prepared and/or re-analyzed to confirm results, unless the deviation is due to sample dilution or otherwise explained in the case narrative.

Receipt

The sample was received on 2/25/2026 9:25 AM. Unless otherwise noted below, the sample arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 11.3°C.

Metals

Method 6010D - TCLP: The following sample(s) was diluted due to the presence of an interferent. Steel Shot (310-326351-1). Elevated reporting limits (RLs) are provided.

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

General Chemistry

Method 7196A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 500-857010 and analytical batch 500-857172 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 7196A: Some of the following sample was lost when filtering: (310-326351-A-1-G MSD). A pin size hole was discovered in the bottom of the digestion tube. The amount recovered resulted in low results for the sample.

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

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Sample Summary

Client: Transco Railway Products
Project/Site: Beneficial Use - Steel Shot

Job ID: 310-326351-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Sample Origin
310-326351-1	Steel Shot	Solid	02/24/26 11:40	02/25/26 09:25	Iowa

- 1
- 2
- 3
- 4
- 5
- 6
- 7

Client Sample Results

Client: Transco Railway Products
 Project/Site: Beneficial Use - Steel Shot

Job ID: 310-326351-1

Client Sample ID: Steel Shot

Lab Sample ID: 310-326351-1

Date Collected: 02/24/26 11:40

Matrix: Solid

Date Received: 02/25/26 09:25

Method: 6010D - Metals (ICP) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Arsenic	<0.0600		0.200	0.0600	mg/L		02/27/26 11:58	2	ZRI4
Barium	0.506		0.400	0.0800	mg/L		02/27/26 11:58	2	ZRI4
Cadmium	<0.00780		0.0400	0.00780	mg/L		02/27/26 11:58	2	ZRI4
Chromium	<0.0120		0.0400	0.0120	mg/L		02/27/26 11:58	2	ZRI4
Lead	<0.0740		0.200	0.0740	mg/L		02/27/26 11:58	2	ZRI4
Selenium	<0.0580		0.200	0.0580	mg/L		02/27/26 11:58	2	ZRI4
Silver	<0.0320		0.100	0.0320	mg/L		02/27/26 11:58	2	ZRI4

Method: 6020B - Metals (ICP/MS) - SPLP West

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Antimony	<0.0200		0.0400	0.0200	mg/L		03/04/26 14:44	4	NFT2
Arsenic	<0.0110		0.0400	0.0110	mg/L		03/04/26 14:44	4	NFT2
Barium	0.173 J		0.200	0.0280	mg/L		03/04/26 14:44	4	NFT2
Beryllium	<0.00660		0.0200	0.00660	mg/L		03/04/26 14:44	4	NFT2
Cadmium	<0.00200		0.0100	0.00200	mg/L		03/04/26 14:44	4	NFT2
Chromium	<0.0360		0.100	0.0360	mg/L		03/04/26 14:44	4	NFT2
Copper	<0.0640		0.200	0.0640	mg/L		03/04/26 14:44	4	NFT2
Lead	<0.00660		0.0200	0.00660	mg/L		03/04/26 14:44	4	NFT2
Selenium	<0.0280		0.100	0.0280	mg/L		03/04/26 14:44	4	NFT2
Thallium	<0.0110		0.0200	0.0110	mg/L		03/04/26 14:44	4	NFT2

Method: 7470A - Mercury (CVAA) - TCLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.00120		0.00200	0.00120	mg/L		03/02/26 13:47	1	RLT9

Method: 7470A - Mercury (CVAA) - SPLP West

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.00120		0.00200	0.00120	mg/L		03/04/26 10:36	1	RLT9

General Chemistry

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
Chromium, trivalent (7196A)	1640		1.00	1.00	mg/Kg		03/13/26 07:53	1	HE7K
Percent Moisture (Moisture)	0.3		0.1	0.1	%		02/25/26 11:40	1	DGU1
Percent Solids (Moisture)	99.7		0.1	0.1	%		02/25/26 11:40	1	DGU1

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	RL	Unit	D	Analyzed	Dil Fac	Analyst
pH (9045D)	7.6	HF	1.0	1.0	SU		02/28/26 10:10	1	T5AC

General Chemistry - SPLP

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoride (4500 F C-2011)	<0.0790		0.200	0.0790	mg/L		03/03/26 15:31	1	T5AC

Client Sample ID: Steel Shot

Lab Sample ID: 310-326351-1

Date Collected: 02/24/26 11:40

Matrix: Solid

Date Received: 02/25/26 09:25

Percent Solids: 99.7

Method: 6020B - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Antimony	4.39		0.808	0.364	mg/Kg	✱	03/04/26 18:00	5	NFT2
Arsenic	18.6		0.808	0.340	mg/Kg	✱	03/04/26 18:00	5	NFT2

Eurofins Cedar Falls

Client Sample Results

Client: Transco Railway Products
 Project/Site: Beneficial Use - Steel Shot

Job ID: 310-326351-1

Client Sample ID: Steel Shot

Lab Sample ID: 310-326351-1

Date Collected: 02/24/26 11:40

Matrix: Solid

Date Received: 02/25/26 09:25

Percent Solids: 99.7

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Barium	80.6		5.66	2.60	mg/Kg	✳	03/08/26 21:11	35	ZRI4
Beryllium	<0.162		0.404	0.162	mg/Kg	✳	03/04/26 18:00	5	NFT2
Boron	<243		283	243	mg/Kg	✳	03/08/26 21:11	35	ZRI4
Cadmium	<1.08		2.83	1.08	mg/Kg	✳	03/08/26 21:11	35	ZRI4
Chromium	1640		8.49	2.94	mg/Kg	✳	03/05/26 15:10	35	ZRI4
Cobalt	37.9		2.83	1.02	mg/Kg	✳	03/08/26 21:11	35	ZRI4
Copper	1320		8.49	4.53	mg/Kg	✳	03/05/26 15:10	35	ZRI4
Lead	4.77		2.02	0.631	mg/Kg	✳	03/04/26 18:00	5	NFT2
Lithium	<5.60		14.1	5.60	mg/Kg	✳	03/05/26 15:10	35	ZRI4
Manganese	5450		14.1	6.79	mg/Kg	✳	03/08/26 21:11	35	ZRI4
Molybdenum	233		0.808	0.331	mg/Kg	✳	03/04/26 18:00	5	NFT2
Nickel	372		1.21	0.485	mg/Kg	✳	03/04/26 18:00	5	NFT2
Selenium	<0.606		1.21	0.606	mg/Kg	✳	03/04/26 18:00	5	NFT2
Silver	0.463		0.404	0.154	mg/Kg	✳	03/04/26 18:00	5	NFT2
Thallium	<0.154		0.404	0.154	mg/Kg	✳	03/04/26 18:00	5	NFT2
Vanadium	81.4		8.49	3.00	mg/Kg	✳	03/08/26 21:11	35	ZRI4
Zinc	90.2		4.04	2.67	mg/Kg	✳	03/04/26 18:00	5	NFT2

Method: 7471B - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Mercury	<0.00782		0.0191	0.00782	mg/Kg	✳	03/03/26 10:59	1	RLT9

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Chromium, hexavalent (7196A)	2.19	F1 F2	1.01	0.392	mg/Kg	✳	03/12/26 16:44	1	AM

General Chemistry - Soluble

Analyte	Result	Qualifier	RL	MDL	Unit	D	Analyzed	Dil Fac	Analyst
Fluoride (4500 F C-2011)	<0.485		0.989	0.485	mg/Kg	✳	03/03/26 15:56	1	T5AC

Accreditation/Certification and Definitions Summary

Client: Transco Railway Products
 Project/Site: Beneficial Use - Steel Shot

Job ID: 310-326351-1

Laboratory: Eurofins Cedar Falls

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Iowa	State	007	12-01-27

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
4500 F C-2011		Solid	Fluoride
6020B	3050B	Solid	Lithium
7196A		Solid	Chromium, trivalent
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Laboratory: Eurofins Chicago

The accreditations/certifications listed below are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Iowa	State	082	05-01-26

Qualifiers

Metals

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.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
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.
α	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
1C	Result is from the primary column on a dual-column method.
2C	Result is from the confirmation column on a dual-column method.
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

Accreditation/Certification and Definitions Summary

Client: Transco Railway Products
Project/Site: Beneficial Use - Steel Shot

Job ID: 310-326351-1

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
MRL	Method Reporting 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
SDL	Sample Detection Limit
SDL	Sample Detection Limit
SDL	Sample Detection Limit
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Method Summary

Client: Transco Railway Products
Project/Site: Beneficial Use - Steel Shot

Job ID: 310-326351-1

Method	Method Description	Protocol	Laboratory
6010D	Metals (ICP)	SW846	EET CF
6020B	Metals (ICP/MS)	SW846	EET CF
7470A	Mercury (CVAA)	SW846	EET CF
7471B	Mercury (CVAA)	SW846	EET CF
4500 F C-2011	Fluoride (Ion-selective Electrode)	SM	EET CF
7196A	Chromium, Trivalent (Colorimetric)	SW846	EET CF
7196A	Chromium, Hexavalent	SW846	EET CHI
9045D	pH	SW846	EET CF
Moisture	Percent Moisture	EPA	EET CF
1311	TCLP Extraction	SW846	EET CF
1312	SPLP Extraction	SW846	EET CF
3005A	Preparation, Total Recoverable or Dissolved Metals	SW846	EET CF
3050B	Preparation, Metals	SW846	EET CF
3060A	Alkaline Digestion (Chromium, Hexavalent)	SW846	EET CHI
7470A	Preparation, Mercury	SW846	EET CF
7471B	Preparation, Mercury	SW846	EET CF
DI Leach	Deionized Water Leaching Procedure	ASTM	EET CF

Protocol References:

ASTM = ASTM International

EPA = US Environmental Protection Agency

SM = "Standard Methods For The Examination Of Water And Wastewater"

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

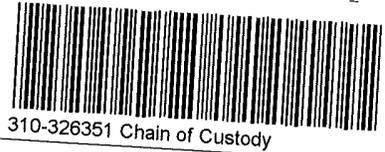
Laboratory References:

EET CF = Eurofins Cedar Falls, 3019 Venture Way, Cedar Falls, IA 50613, TEL (319)277-2401

EET CHI = Eurofins Chicago, 18410 Crossing Drive, Suite E, Tinley Park, IL 60487, TEL (708)534-5200



Environment Testing
America



Cooler/Sample Receipt and Temperature Log Form

Client Information			
Client <u>TRP</u>			
City/State	CITY	STATE	Project
Receipt Information			
Date/Time Received.	DATE <u>2/25/26</u>	TIME <u>9:25</u>	Received By. <u>[Signature]</u>
Delivery Type: <input type="checkbox"/> UPS <input checked="" type="checkbox"/> FedEx <input type="checkbox"/> FedEx Ground <input type="checkbox"/> US Mail <input type="checkbox"/> Spee-Dee <input type="checkbox"/> Lab Courier <input type="checkbox"/> Lab Field Services <input type="checkbox"/> Client Drop-off <input type="checkbox"/> Other _____			
Condition of Cooler/Containers			
Sample(s) received in Cooler? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes: Cooler ID</i>			
Multiple Coolers? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes: Cooler # ____ of ____</i>			
Cooler Custody Seals Present? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <i>If yes. Cooler custody seals intact? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</i>			
Sample Custody Seals Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes Sample custody seals intact? <input type="checkbox"/> Yes <input type="checkbox"/> No</i>			
Trip Blank Present? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <i>If yes. Which VOA samples are in cooler? ↓</i>			
Temperature Record			
Coolant <input checked="" type="checkbox"/> Wet ice <input type="checkbox"/> Blue ice <input type="checkbox"/> Dry ice <input type="checkbox"/> Other _____ <input type="checkbox"/> NONE			
Thermometer ID <u>B15</u>		Correction Factor (°C) <u>0</u>	
• Temp Blank Temperature – If no temp blank, or temp blank temperature above criteria, proceed to Sample Container Temperature			
Uncorrected Temp (°C): <u>11.4</u>		Corrected Temp (°C): <u>11.4</u>	
• Sample Container Temperature			
Container(s) used:	CONTAINER 1 <u>32 02 08</u>	CONTAINER 2	
Uncorrected Temp (°C):	<u>11.3</u>		
Corrected Temp (°C):	<u>11.3</u>		
Exceptions Noted			
1) If temperature exceeds criteria, was sample(s) received same day of sampling? <input type="checkbox"/> Yes <input type="checkbox"/> No			
a) <i>If yes:</i> Is there evidence that the chilling process began? <input type="checkbox"/> Yes <input type="checkbox"/> No			
2) If temperature is <0°C, are there obvious signs that the integrity of sample containers is compromised? (e.g., bulging septa, broken/cracked bottles, frozen solid?) <input type="checkbox"/> Yes <input type="checkbox"/> No			
NOTE If yes, contact PM before proceeding If no, proceed with login			
Additional Comments			



