

September 13, 2019

Arcelor Mittal USA, Inc. 250 W US Highway 12 Burns Harbor, IN 46304-9745

Work Order No.: 19I0441

Re: LLHg - 001

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 3 sample(s) on 9/9/2019 11:00:00AM for the analyses presented in the following report as Work Order 19/0441.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Ron Misiunas, Division Manager, at ron.misiunas@microbac.com.

Sincerely, Microbac Laboratories, Inc.

Carup Macizala

Carey Gadzala Project Manager

Microbac Laboratories, Inc.



	DER SAMPLE SUMMARY		Date:	Friday, September 13, 2019
Project:	Arcelor Mittal USA, Inc. LHg - 001 9I0441			
Lab Sample II 1910441-01	D Client Sample ID Field Blank	Tag Number	Collection Date 09/09/2019 05:18	Date Received 9/9/2019 11:00:00AM
1910441-02 1910441-03	001-Grab 001- DUP	001 001	09/09/2019 05:22 09/09/2019 05:27	9/9/2019 11:00:00AM 9/9/2019 11:00:00AM

MICROBAC[®]

Analytical Results Friday, September 13, 2019 Date: Arcelor Mittal USA, Inc. Client: LLHg - 001 **Client Project:** Field Blank Work Order/ID: 1910441-01 **Client Sample ID:** 09/09/2019 5:18 Sample Description: Sampled: Aqueous Matrix: **Received:** 09/09/2019 11:00 AT Result MDL RL Units DF Analyses Certs Qual Analyzed Method: EPA 1631E Analyst: BTM **Total Mercury using CVAFS - Heated Preparation** Prep Date/Time: 09/12/2019 08:20 0.118 0.500 ng/L 09/13/2019 12:15 Mercury eijlm А ND 1

MICROBAC[®]

Analytical Results Friday, September 13, 2019 Date: Arcelor Mittal USA, Inc. **Client:** LLHg - 001 **Client Project:** 001-Grab Work Order/ID: 1910441-02 **Client Sample ID:** 001 09/09/2019 5:22 Sample Description: Sampled: Aqueous 09/09/2019 11:00 Matrix: **Received:** AT Result MDL RL Units DF Analyses Certs Qual Analyzed Method: EPA 1631E Analyst: BTM **Total Mercury using CVAFS - Heated Preparation** Prep Date/Time: 09/12/2019 08:20 A 0.145 0.118 0.500 ng/L 09/13/2019 12:18 Mercury eijlm 1

MICROBAC[®]

Analytical Results Friday, September 13, 2019 Date: Arcelor Mittal USA, Inc. **Client:** LLHg - 001 **Client Project:** 001- DUP Work Order/ID: 1910441-03 **Client Sample ID:** 001 09/09/2019 5:27 Sample Description: Sampled: 09/09/2019 11:00 Matrix: Aqueous **Received:** AT Result MDL RL Units DF Analyses Certs Qual Analyzed Method: EPA 1631E Analyst: BTM **Total Mercury using CVAFS - Heated Preparation** Prep Date/Time: 09/12/2019 08:20 0.118 0.500 ng/L 09/13/2019 12:20 Mercury eijlm A 0.241 1

A,B = Target Analyte I = Internal Standard

- M = Summation Analyte
- S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

- BLK = Method Blank DUP = Method Duplicate BS = Method Blank Spike MS = Matrix Spike ICB = Initial Calibration Blank CCB = Continuing Calibration Blank CRL = Client Required Reporting Limit PDS = Post Digestion Spike QCS = Quality Control Standard
- ICSA = Interference Check Standard "A" ICSAB = Interference Check Standard "AB" BSD = Method Blank Spike Duplicate MSD = Matrix Spike Duplicate ICV = Initial Calibration Verification CCV = Continuing Calibration Verification OPR = Ongoing Precision and Recovery Standard SD = Serial Dilution

🔊 MICROBAC®

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- ⁱ Kansas Dept Health & Env. NELAP (#E-10397)
- j Kentucky Wastewater Laboratory Certification Program (#108202)
- ¹ North Carolina DENR NPDES effluent, surface water (#597)
- ^m New York State Department of Health (#12006)

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

MDL:	Minimum Detection Limit
RL:	Reporting Limit
RPD:	Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler



Cooler Inspection Checklist

-	
Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes

Ø МІС	🚯 MICROBAC*				CHAIN OF CUSTODY RECORD Number 152760 Instructions on back
Lab Report Address Client Name: AM	Lab Report Address Client Name: AMBH	Invoice Address Client Name:	Turnaround Time Koutine (5 to RUSH* (notify	Turnaround Time Koutine (5 to 7 business days) CUSH* (notify lab)	TO BE COMPLETED BY MICROBAC Temperature Upon Receipt (°C) Therm ID
Address:		Address:			Holding Time
City, State, Zip:	e, Zip:	City, State, Zip:	(needed by)		Samples Received on Ice? 🗌 Yes 🗍 No 궑 N/A
Contact:		Contact:	Report Type		Custody Seals Intact? 🗌 Yes 🗌 No 🖏 MA
Telephone No.:	ş No.:	Telephone No.:	Kesults Only	Level 1 Level 2	C Level 3 C Level 4 E DD
Send Report via:	ort via: 🛛 🖾 Mail 🔄 Fax 🔄 e-mail (address)		Send Invoice via:	□ e-mail (address)	
Project:		Location:	PO No.:	Compliance Monitoring?	ring? [] Yes [] No n
Sampled b	sampled by (PRINT): B. Otto	Sampler Signature:	- OUS Sampler Phone No.:		8
	* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) ** Preservative Types: (1) HNO3, (2) H2SO4, (3) HCI, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved	ipe, Drinking Water (DW), Groundwater ICI, (4) NaOH, (5) Zinc Acetate, (6) Me	(DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) inc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane	er (WW), Other (specify Thiosulfate, (9) Hexan	s, (U) Unpreserved
			KE	REQUESTED ANALYSIS	
1910441 ArcelorM _LHg - 00 09/09/201		Sontainers	бн		
Car littal - E 01 19	Date Client Sample ID Collected	Time Collected	Preservative		IG ZOYY
ey G Burn	143 9	0518 1 206			14
adza s Ha	1 12661 100		X		60
ala Irbor	1 141 821 Jug 100	0527 1 4 4	<u>ک</u> ک		63
, IN			c		
Possible Ha	I I I I I I I I I I I I I I I I I I I	Non-Hazardous Radioactive	Sample Disposition	Dispose as appropriate	Return Archive
	9	Relinquished By (signature)	- Date/Time 9/9/19 0820	Received By (signature)	~ 7/9/19 0820
		Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
8 of 8		Retinquished By (signature)	> 2/9/19 (100	Required By (somature)	Level Date/Time 9.19/1100
rev.12/26/2017	6/2017				Page of