

September 6, 2019

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

Work Order No.: 1910302

Re: NPDES Excursion-CN

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 3 sample(s) on 9/6/2019 9:55:00AM for the analyses presented in the following report as Work Order 1910302.

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. 250 West 84th Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com



WORK ORD	DER SAMPLE SUMMARY		Date: Friday, September 6, 2				
Client: A	rcelor Mittal USA, Inc.						
Project: N	IPDES Excursion-CN						
Lab Order: 1	910302						
Lab Sample I	D Client Sample ID	Tag Number	Collection Date	Date Received			
1910302-01	lagoon Channel Inlet		09/06/2019 09:55	9/6/2019 9:55:00AM			
1910302-02	South Lagoon Inlet		09/06/2019 07:55	9/6/2019 9:55:00AM			
1910302-03	011		09/06/2019 08:00	9/6/2019 9:55:00AM			

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Analytical Results Date: Friday, September 6, 2019 Arcelor Mittal USA, Inc. **Client:** NPDES Excursion-CN **Client Project:** lagoon Channel Inlet Work Order/ID: 1910302-01 **Client Sample ID:** Sampled: 09/06/2019 9:55 Sample Description: 09/06/2019 9:55 Matrix: Aqueous **Received:** Certs AT Result RL Units DF Analyses Qual Analyzed Method: SM 4500-CN C/E-1999 Analyst: ABG **Total Cyanide** Prep Method: NA Prep Date/Time: 09/06/2019 11:03 Cyanide, Total dij А ND 0.0050 mg/L 1 09/06/2019 13:56

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Analytical Results Date: Friday, September 6, 2019 Arcelor Mittal USA, Inc. **Client:** NPDES Excursion-CN **Client Project:** South Lagoon Inlet Work Order/ID: 1910302-02 **Client Sample ID:** Sampled: 09/06/2019 7:55 Sample Description: 09/06/2019 9:55 Matrix: Aqueous **Received:** Certs AT Result RL Units DF Analyses Qual Analyzed Method: SM 4500-CN C/E-1999 Analyst: ABG **Total Cyanide** Prep Method: NA Prep Date/Time: 09/06/2019 11:03 Cyanide, Total dij А ND 0.0050 mg/L 1 09/06/2019 14:01

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Analytical Results

Friday, September 6, 2019

Date:

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion-CN									
Client Sample ID: 011								Work Order/ID: 19103		1910302-03
Sample Description:								Sample	ed:	09/06/2019 8:00
Matrix:	Aqueous							Receiv	ed:	09/06/2019 9:55
Analyses		Certs	AT	Result		RL	Qual	Units	DF	Analyzed
				Method: SM 4	4500-CN	N C/E-1999 Analyst: ABG				
Total Cyanide		Prep Method: NA			Prep Date/Time:09/06/2019 11:03					
Cyanide, Total di		dij	Α		ND	0.0050		mg/L	1	09/06/2019 14:03

A,B = Target Analyte I = Internal Standard

- M = Summation Analyte
- S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

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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

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)

FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

RL:	Reporting Limit			
RPD:	Relative Percent Difference			

Cooler ID: Default Cooler

Comments

No times on sample containers

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?	No
	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?)	No
	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
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