

September 18, 2019

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

Work Order No.: 19I1090

**Re: NPDES Excursion-CN** 

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 3 sample(s) on 9/18/2019 10:20:00AM for the analyses presented in the following report as Work Order 19/1090.

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.



### WORK ORDER SAMPLE SUMMARY

Date: Wednesday, September 18, 2019

Client:	Arcelor Mittal USA, Inc.
Project:	NPDES Excursion-CN
Lab Order:	1911090

#### Lab Sample ID **Client Sample ID** Tag Number Collection Date Date Received Lagoon Channel Inlet 1911090-01 9/18/2019 10:20:00AM 09/18/2019 00:00 1911090-02 South Lagoon Inlet 09/18/2019 00:00 9/18/2019 10:20:00AM 1911090-03 011 09/18/2019 00:00 9/18/2019 10:20:00AM

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# **Analytical Results**

Date: Wednesday, September 18, 2019

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion-CN								
Client Sample ID:	Lagoon Channel Inlet						Work Or	der/ID:	19 1090-01
Sample Description:							Sample	d:	09/18/2019 0:00
Matrix:	Aqueous						Receive	d:	09/18/2019 10:20
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-	CN C/E-1999			Ana	alyst: ABG
Total Cyanide			F	Prep Method: NA			F	Prep Date/	lime:09/18/2019 11:28
Cyanide, Total		dij	Α	0.0076	0.0050		mg/L	1	09/18/2019 14:49

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# **Analytical Results**

Date: Wednesday, September 18, 2019

Client: Client Project:	Arcelor Mittal USA, Ir NPDES Excursion-Cl								
Client Sample ID:	South Lagoon Inlet						Work Or	der/ID:	19 1090-02
Sample Description:							Sample	d:	09/18/2019 0:00
Matrix:	Aqueous						Receive	d:	09/18/2019 10:20
Analyses		Certs	AT	Result	RL	Qual	Units	DF	Analyzed
				Method: SM 4500-	-CN C/E-1999			An	alyst: ABG
Total Cyanide			F	Prep Method: NA			F	Prep Date/	Time:09/18/2019 11:28
Cyanide, Total		dij	Α	0.0075	0.0050		mg/L	1	09/18/2019 14:51

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# **Analytical Results**

Date: Wednesday, September 18, 2019

Client: Client Project:	Arcelor Mittal USA, In NPDES Excursion-CN									
Client Sample ID:	011							Work O	rder/ID:	19 1090-03
Sample Description:								Sample	d:	09/18/2019 0:00
Matrix:	Aqueous							Receive	ed:	09/18/2019 10:20
Analyses		Certs	AT	Result		RL	Qual	Units	DF	Analyzed
				Method: SM	4500-CN	C/E-1999			Ana	alyst: ABG
Total Cyanide			F	Prep Method: NA					Prep Date/	lime:09/18/2019 11:28
Cyanide, Total		dij	Α		ND	0.0050		mg/L	1	09/18/2019 14:52

#### 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)
- <sup>i</sup> 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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MICROBAC Lab Report Address Client Name: Arce (or with A Client Name: Arce (or with A Address: City, State, Zlp: Contact: Town Kith Contact: Town Kith Contact: Town Kith Project: Sampled by (PRINT): Waitin Fax [ Project: * Matrix Types: Soil/Sol ** Preservative Types: (1) HMC Client Sample ID Client Sa	adz