

September 24, 2019

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

Work Order No.: 19I1395

Re: NPDES Parameters

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 3 sample(s) on 9/24/2019 10:00:00AM for the analyses presented in the following report as Work Order 19/1395.

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 ORDER SAMPLE SUMMARY			Date:	Tuesday, September 24, 2019
Project:	Arcelor Mittal USA, Inc. IPDES Parameters 9I1395			
Lab Sample I	D Client Sample ID	Tag Number	Collection Date	Date Received
19 1395-01	001-Composite	001	09/23/2019 00:00	9/24/2019 10:00:00AM
19 1395-02	011-Composite	011	09/23/2019 00:00	9/24/2019 10:00:00AM
19 1395-03	002-Composite	002	09/23/2019 00:00	9/24/2019 10:00:00AM

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Analytical Results

Date: Tuesday, September 24, 2019

Client: Client Project:	Arcelor Mittal US	,								
Client Sample ID:	001-Composite							Work	Order/ID:	19 1395-01
Sample Description:	001							Sampl	ed:	09/23/2019 0:00
Matrix:	Aqueous							Receiv	09/24/2019 10:00	
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method: SI	M 4500-CN	C/E-1999			Ana	alyst: ABG
Total Cyanide									Prep Date/1	īme:09/24/2019 10:55
Cyanide, Total		eij	Α	ND	0.0020	0.0050	U	mg/L	1	09/24/2019 13:58
				Method: SI	N-846 9014				Ana	alyst: ABG
Free Cyanide									Prep Date/1	īme:09/24/2019 11:48
Free Cyanide			Α	ND	0.0018	0.0062		mg/L	1	09/24/2019 13:21
				Method: EI	PA 350.1 Re	v 2.0			Ana	alyst: ABG
Nitrogen, Ammonia as	s N								Prep Date/1	īme:09/24/2019 11:43
Nitrogen, Ammonia (A	s N)	ei	Α	0.27	0.054	0.10		mg/L	1	09/24/2019 13:45

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Analytical Results

Date: Tuesday, September 24, 2019

Client: Client Project:	Arcelor Mittal USA	,									
Client Sample ID:	011-Composite							Work	Order/ID:	19 1395-02	
Sample Description:	011							Sampl	ed:	09/23/2019 0:00	
Matrix:	Aqueous							Receiv	ved:	09/24/2019 10:00	
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
				Method: SI	M 4500-CN	C/E-1999			Ana	alyst: ABG	
Total Cyanide									Prep Date/	lime:09/24/2019 10:55	
Cyanide, Total		eij	Α	ND	0.0020	0.0050	U	mg/L	1	09/24/2019 14:00	
				Method: SI	N-846 9014				Ana	alyst: ABG	
Free Cyanide									Prep Date/	Time:09/24/2019 11:48	
Free Cyanide			Α	ND	0.0018	0.0062		mg/L	1	09/24/2019 13:22	
Method: EPA 350.1 Rev 2.0 Analyst:											
Nitrogen, Ammonia as	N N								Prep Date/	Time:09/24/2019 11:43	
Nitrogen, Ammonia (A	s N)	ei	Α	0.15	0.054	0.10		mg/L	1	09/24/2019 13:48	

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Analytical Results

Date: Tuesday, September 24, 2019

Client: Client Project:	Arcelor Mittal US NPDES Paramet									
Client Sample ID:	002-Composite							Work	Order/ID:	1911395-03
Sample Description:	002							Samp	ed:	09/23/2019 0:00
Matrix:	Aqueous							Receiv	/ed:	09/24/2019 10:00
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method: SI	M 4500-CN		Analyst: ABG			
Total Cyanide									Prep Date/1	ïme:09/24/2019 10:55
Cyanide, Total		eij	Α	ND	0.0020	0.0050	U	mg/L	1	09/24/2019 14:01

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

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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)

 MDL:
 Minimum Detection Limit

 RL:
 Reporting Limit

 RPD:
 Relative Percent Difference

 U:
 The analyte was analyzed for but was not detected above the reported quantitation limit. The quantitation limit has been adjusted for any dilution or concentration of the sample.

Cooler Receipt Log

Cooler ID: Default Cooler

Comments

No time

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?	No
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

CHAIN OF CUSTODY RECORD Number 152508 Instructions on back	TO BE COMPLETED BY MICROBAC 5.4 Temperature Upon Receipt (°C) -03 Therm ID	ле	Samples Received on Ice? 🛛 🖉 es 🗌 No 🗍 N/A	Custody Seals Intact? 🗌 Yes 🔲 No 🕅 N/A			ing? [Yes]No	20	(U) Unpreserved		1921395	01	201	29				Carterian Carter	5 Date/Time/ 9/24/19 0830	/Time	9 /24/19 /sw
	Turnaround Time Routine (5 to 7 business days) TURUSH* (notify lab)				Results Only Level 1 Level 2	ce via: 🗌 Mail 🔲 Fax 🔲 e-mail (address)	PO No.: Compliance Monitoring?	Sampler Phone No.:	Vater (SW), Waste Water (WW), Other (specify) um Bisulfate, (8) Sodium Thiosulfate, (9) Hexane,	REQUESTED ANALYSIS	NH3 CNT	×						Sample Disposition Dispose as appropriate	19 0 SIL Received By (signature)	900 4	Received By (signature)
	Invoice Address Client Name:	Address:	te, Zip:	Contact:	Telephone No.:	Send Invoice via:	Location: P	Sampler Signature:	Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify) vative Types: (1) HNO3, (2) H2SO4, (3) HCI, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane		Collected Matrix Matrix Treservative Treservative Treservative			1			,	Radioactive	Relinquished By (signature) Date/Time	Relinquished By (signature) Date Time	Relinquished By (signature) Date/Time
MICROBAC*	Address Bree lor mitter BH			110		t via: 🗌 Mail 🗌 Fax 🗍 e-mail (address)		(PRINT): Chet Dull , N	* 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) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved		Date Client Sample ID	6		002 Q				zard Identification			
MIC 🖉	Lab Report Address Client Name: Å∕∞	Address:	City, State, Zip:	Contact:	Telephone No.:	Send Report via:	Project:	Sampled by (PRINT):	*		Lab .			IPD	995 Ca IorMittal - ES Paramo 4/2019	eters					