

Work Order No.: 19H1489

August 23, 2019

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

Re: NPDES Excusrion Sampling

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 2 sample(s) on 8/23/2019 10:17:00AM for the analyses presented in the following report as Work Order 19H1489.

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.

Carry Hadgala

Carey Gadzala Project Manager



Date:

Friday, August 23, 2019

WORK ORDER SAMPLE SUMMARY

NPDES Excusrion Sampling

Arcelor Mittal USA, Inc.

Lab Order: 19H1489

Client:

Project:

 Lab Sample ID
 Client Sample ID
 Tag Number
 Collection Date
 Date Received

 19H1489-01
 002
 08/23/2019 00:00
 8/23/2019 10:17:00AM

 19H1489-02
 002
 08/22/2019 00:00
 8/23/2019 10:17:00AM



Analytical Results Date: Friday, August 23, 2019

Client: Arcelor Mittal USA, Inc.
Client Project: NPDES Excusrion Sampling

 Client Sample ID:
 002

 Work Order/ID:
 19H1489-01

 Sample Description:
 Sampled:
 08/23/2019
 0:00

 Matrix:
 Aqueous
 Received:
 08/23/2019
 10:17

Analyses Certs AT Result RL Qual Units DF Analyzed

 Method: EPA 1664B
 Analyst: KMT

 Oil & Grease (HEM) by SPE
 Prep Method: EPA 1664B
 Prep Date/Time: 08/23/2019 07:28

 Oil & Grease (HEM)
 dij
 A
 ND
 5.0
 mg/L
 1
 08/23/2019 14:37



Analytical Results Date: Friday, August 23, 2019

Client: Arcelor Mittal USA, Inc.
Client Project: NPDES Excusrion Sampling

 Client Sample ID:
 002
 Work Order/ID:
 19H1489-02

 Sample Description:
 Sampled:
 08/22/2019
 0:00

Matrix: Aqueous **Received:** 08/23/2019 10:17

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SM 4500-0	CN C/E-1999			An	alyst: ABG
Total Cyanide		F	Prep Method: NA			F	rep Date/	Time: 08/23/2019 11:24
Cyanide, Total	dij	Α	ND	0.0050	n	ng/L	1	08/23/2019 14:11

ANALYTE TYPES: (AT)

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

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

QCS = Quality Control Standard **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 Receipt Log

Cooler ID: Default Cooler

Comments



No time on sample container. Sample preserved at lab

Cooler Inspection Checklist

loo Present or not required?	No
Ice Present or not required?	
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	No
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?)	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

MICROBAC*

C	nd Time
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	20

Invoice Address

to

Client Name: Arclor mith

Lab Report Address

Client Name: Address:

CHAIN OF CUSTODY RECORD

15231 Instructions on back

TO BE COMPLETED BY MICROBAC Temperature Upon Receipt (°C) Therm ID

ubli aula

Samples Received on Ice? Kres No N/A Holding Time ☐ Routine (5 to 7 business days) ☐ RUSH* (notify lab)

Custody Seals Intact? ☐ Yes ☐ No ☑ N/A

Report Type

(needed by)

City, State, Zip:

Contact:

Contact: Terri HUK

City, State, Zip:

Address:

Telephone No.:

☐ Mail ☐ Fax ☐ e-mail (address)

Send Report via:

Project:

Telephone No.:

☐ Results Only ☐ Level 1 ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ EDD

= e-mail (address)

Compliance Monitoring? ☐ Yes ☐ Agency/Program

№

PO No.:

Sampler Signature:

Sampled by (PRINT): Warren

Location:

Sampler Phone No.:

** 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 * Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)

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