Work Order No.: 19I1259



September 20, 2019

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

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 22 sample(s) on 9/20/2019 10:25:00AM for the analyses presented in the following report as Work Order 19I1259.

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 Hadzala

Carey Gadzala Project Manager



Partial 9/20/2019

Friday, September 20, 2019

Date:

WORK ORDER SAMPLE SUMMARY

Client: Arcelor Mittal USA, Inc.

Project: Daily Lab Order: 19I1259

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
1911259-03	001-Composite	001	09/19/2019 06:30	9/20/2019 10:25:00AM
1911259-05	031-Grab	031	09/20/2019 06:49	9/20/2019 10:25:00AM
1911259-06	Mixed Liquor-Grab	Mixed Liquor	09/20/2019 06:51	9/20/2019 10:25:00AM
1911259-07	J-Box-Grab	J-Box	09/20/2019 06:47	9/20/2019 10:25:00AM
1911259-08	WWII-Grab	WWII	09/20/2019 07:10	9/20/2019 10:25:00AM
1911259-09	Coldwell-Grab	Coldwell	09/20/2019 07:20	9/20/2019 10:25:00AM
1911259-10	RSB FT Overflow-Grab	RSB FT Overflow	09/20/2019 07:30	9/20/2019 10:25:00AM
1911259-11	RSB FT Influent-Grab	RSB FT Influent	09/20/2019 07:31	9/20/2019 10:25:00AM
1911259-12	BFTD-Grab	BFTD	09/20/2019 08:00	9/20/2019 10:25:00AM
1911259-13	999-Grab	999	09/20/2019 07:50	9/20/2019 10:25:00AM
1911259-14	BFTC-Grab	BFTC	09/20/2019 08:10	9/20/2019 10:25:00AM
1911259-16	WAL-Grab	WAL	09/20/2019 08:23	9/20/2019 10:25:00AM
1911259-17	CM1-Grab	CM1	09/20/2019 00:00	9/20/2019 10:25:00AM
1911259-18	CM2-Grab	CM2	09/20/2019 00:00	9/20/2019 10:25:00AM
1911259-19	CM3-Grab	CM3	09/20/2019 00:00	9/20/2019 10:25:00AM
1911259-20	CM6-Grab	CM6	09/20/2019 00:00	9/20/2019 10:25:00AM
1911259-21	HM2-Grab	HM2	09/20/2019 00:00	9/20/2019 10:25:00AM
1911259-22	HM3-Grab	HM3	09/20/2019 00:00	9/20/2019 10:25:00AM



Field Results		Date: Friday, S	September 20, 2019
Client:	Arcelor Mittal USA, Inc.	Work Order:	1911259
Client Project:	Daily		
Client Sample ID:	011-Grab	Work Order/ID:	1911259-02
Sample Description:	011	Sampled:	09/19/2019 06:15
Matrix:	Aqueous	Received:	09/20/2019 10:25
Analyses		Result	Units
рН		8.1	pH Units
Client Sample ID:	001-Grab	Work Order/ID:	1911259-04
Sample Description:	001	Sampled:	09/19/2019 06:30
Matrix:	Aqueous	Received:	09/20/2019 10:25
Analyses		Result	Units
pH		7.9	pH Units
Client Sample ID:	J-Box-Grab	Work Order/ID:	1911259-07
Sample Description:	J-Box	Sampled:	09/20/2019 06:47
Matrix:	Aqueous	Received:	09/20/2019 10:25
Analyses		Result	Units
pH		8.6	pH Units
	DOD 57 0 % 0 4		4014050 40
Client Sample ID:	RSB FT Overflow-Grab	Work Order/ID:	1911259-10
Sample Description:	RSB FT Overflow	Sampled:	09/20/2019 07:30
Matrix:	Aqueous	Received:	09/20/2019 10:25
Analyses		Result	Units
рН		8.9	pH Units
Client Sample ID:	999-Grab	Work Order/ID:	1911259-13
Sample Description:	999	Sampled:	09/20/2019 07:50
Matrix:	Aqueous	Received:	09/20/2019 10:25
Analyses		Result	Units
pH		7.9	pH Units
Client Sample ID:	002-Grab	Work Order/ID:	1911259-15
Sample Description:	002	Sampled:	09/20/2019 08:15
Matrix:	Aqueous	Received:	09/20/2019 10:25
Analyses		Result	Units
рН		8.0	pH Units
a:: .a : :=	WAL Oak	··· · · · · · · · · · · · · · · · · ·	4014050 40
Client Sample ID:	WAL-Grab	Work Order/ID:	1911259-16
Sample Description:	WAL	Sampled:	09/20/2019 08:23
Matrix:	Aqueous	Received:	09/20/2019 10:25
Analyses		Result	Units
pH		9.0	pH Units



CASE NARRATIVE Date: Friday, September 20, 2019

Client: Arcelor Mittal USA, Inc.

Project: Daily
Lab Order: 1911259

The Total Suspended Solids method residue requirement of 2.5 mg were not met for the following sample(s).

Due to insufficient sample volume remaining, re-analysis was not performed on the sample(s).

<u>Laboratory ID</u> <u>Sample Name</u> 1911259-13 999-Grab



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 001-Composite
 Work Order/ID:
 19I1259-03

 Sample Description:
 001
 Sampled:
 09/19/2019
 6:30

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E		Analyst: ABG				
Nitrogen, Ammonia as N									Time:09/20/2019 11:41
Nitrogen, Ammonia (As N)	ei	Α	0.24	0.054	0.10	m	g/L	1	09/20/2019 13:57



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 031-Grab
 Work Order/ID:
 191259-05

 Sample Description:
 031
 Sampled:
 09/20/2019
 6:49

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Analyst: KMT						
Total Suspended Solids								Prep Date/Ti	me: 09/20/2019 11:09
Total Suspended Solids	eij	A	2.3	1.0	1.0	m	ng/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 Mixed Liquor-Grab
 Work Order/ID:
 1911259-06

 Sample Description:
 Mixed Liquor
 Sampled:
 09/20/2019
 6:51

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Matrix.	71940040								IXCCCI	vcu.	00/20/2010 10:20		
Analyses		Certs	ΑT		Result	MDL	RL	Qual	Units	DF	Analyzed		
		Method: SM 2540 F-1997									alyst: DAT		
Settleable Solids										Prep Date/	Time: 09/20/2019 11:04		
Settleable Solids		i	Α	160)	1.0	1.0	m	I/L	1	09/20/2019 11:04		
		Method: SM 2540 D-1997									Analyst: KMT		
Total Suspended Solid	ds									Prep Date/	Time: 09/20/2019 11:09		
Total Suspended Solid	ds	eij	Α	170	00	1.0	1.0	m	g/L	1	09/20/2019 12:39		



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 J-Box-Grab
 Work Order/ID:
 19I1259-07

 Sample Description:
 J-Box
 Sampled:
 09/20/2019
 6:47

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Matrix: Aqueous							Receiv	/ed:	09/20/2019 10:25
Analyses	Certs	ΑT	Result	MDL	RL	Qual	Jnits	DF	Analyzed
			Method: E	PA 350.1 Re	v 2.0			An	alyst: ABG
Nitrogen, Ammonia as N								Prep Date/	Time: 09/20/2019 11:41
Nitrogen, Ammonia (As N)	ei	Α	0.26	0.054	0.10	mg/L		1	09/20/2019 14:00
			Method: E	PA 420.4 Re	v 1.0			An	alyst: ABG
Total Phenolics								Prep Date/	Time: 09/20/2019 11:25
Phenolics, Total Recoverable	eij	Α	ND	0.0060	0.010	U mg/L		1	09/20/2019 15:35
			Method: S	M 2540 D-19	997			An	alyst: KMT
Total Suspended Solids								Prep Date/	Time:09/20/2019 11:09
Total Suspended Solids	eij	Α	14	1.0	1.0	mg/L		1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 WWII-Grab
 Work Order/ID:
 191259-08

 Sample Description:
 WWII
 Sampled:
 09/20/2019
 7:10

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:		Analyst: ABG				
Total Cyanide								Prep Date/T	ime:09/20/2019 11:34
Cyanide, Total	eij	Α	0.015	0.0020	0.0050	mg/L	-	1	09/20/2019 14:57



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 Coldwell-Grab
 Work Order/ID:
 1911259-09

 Sample Description:
 Coldwell
 Sampled:
 09/20/2019
 7:20

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Matrix. / iqueous						Nece	veu.	03/20/2013 10:20		
Analyses	Certs	AT	Result	MDL	RL	Qual Units	DF	Analyzed		
		Method: SM 4500-CN C/E-1999 Analyst: ABG								
Total Cyanide							Prep Date/	Time: 09/20/2019 11:34		
Cyanide, Total	eij	Α	0.031	0.0020	0.0050	mg/L	1	09/20/2019 14:58		
			Method:	Analyst: ABG						
Nitrogen, Ammonia as N							Prep Date/	Time: 09/20/2019 11:41		
Nitrogen, Ammonia (As N)	ei	Α	56	0.54	1.0	mg/L	1	09/20/2019 14:02		
			Method:	SM 2540 D-19	997		An	alyst: KMT		
Total Suspended Solids							Prep Date/	Time: 09/20/2019 11:09		
Total Suspended Solids	eij	Α	53	1.0	1.0	mg/L	1	09/20/2019 12:39		



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 RSB FT Overflow-Grab
 Work Order/ID:
 19I1259-10

 Sample Description:
 RSB FT Overflow
 Sampled:
 09/20/2019
 7:30

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: E		An	alyst: ABG			
Nitrogen, Ammonia as N								Prep Date/	Time: 09/20/2019 11:41
Nitrogen, Ammonia (As N)	ei	Α	6.1	0.054	0.10	m	g/L	1	09/20/2019 14:04
			Method: S		Analyst: KMT				
Total Suspended Solids								Prep Date/	Time: 09/20/2019 11:09
Total Suspended Solids	eij	Α	13	1.0	1.0	m	g/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 RSB FT Influent-Grab
 Work Order/ID:
 1911259-11

 Sample Description:
 RSB FT Influent
 Sampled:
 09/20/2019
 7:31

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	Analyst: KMT					
Total Suspended Solids								Prep Date/Ti	me:09/20/2019 11:09
Total Suspended Solids	eij	Α	1400	1.0	1.0	n	ng/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 BFTD-Grab
 Work Order/ID:
 19I1259-12

 Sample Description:
 BFTD
 Sampled:
 09/20/2019
 8:00

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	ΑT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:		Analyst: KMT				
Total Suspended Solids								Prep Date	Time:09/20/2019 11:09
Total Suspended Solids	eij	А	40	1.0	1.0	m	g/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 999-Grab
 191259-13

 Sample Description:
 999
 Sampled:
 09/20/2019
 7:50

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	Analyst: KMT					
Total Suspended Solids								Prep Date/Ti	me:09/20/2019 11:09
Total Suspended Solids	eij	A 1	1.2	1.0	1.0	r	ng/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 BFTC-Grab
 Work Order/ID:
 19I1259-14

 Sample Description:
 BFTC
 Sampled:
 09/20/2019
 8:10

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:09/20/2019 11:09
Total Suspended Solids	eij	Α .	50	1.0	1.0	r	ng/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 WAL-Grab
 Work Order/ID:
 19I1259-16

 Sample Description:
 WAL
 Sampled:
 09/20/2019
 8:23

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:09/20/2019 11:09
Total Suspended Solids	eij	Α	6.6	1.0	1.0	m	g/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM1-Grab
 Work Order/ID:
 19I1259-17

 Sample Description:
 CM1
 Sampled:
 09/20/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:09/20/2019 11:09
Total Suspended Solids	eij	Α	18	1.0	1.0	m	ng/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM2-Grab
 Work Order/ID:
 19I1259-18

 Sample Description:
 CM2
 Sampled:
 09/20/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: §	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:09/20/2019 11:09
Total Suspended Solids	eij	A	11	1.0	1.0	m	ng/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM3-Grab
 Work Order/ID:
 19I1259-19

 Sample Description:
 CM3
 Sampled:
 09/20/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:09/20/2019 11:09
Total Suspended Solids	eij	A	15	1.0	1.0	m	ng/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 CM6-Grab
 Work Order/ID:
 19I1259-20

 Sample Description:
 CM6
 Sampled:
 09/20/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:09/20/2019 11:09
Total Suspended Solids	eij	Α	10	1.0	1.0	n	ng/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 HM2-Grab
 Work Order/ID:
 19I1259-21

 Sample Description:
 HM2
 Sampled:
 09/20/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method: §	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:09/20/2019 11:09
Total Suspended Solids	eij	Α :	13	1.0	1.0	m	ng/L	1	09/20/2019 12:39



Client: Arcelor Mittal USA, Inc.

Client Project: Daily

 Client Sample ID:
 HM3-Grab
 Work Order/ID:
 1911259-22

 Sample Description:
 HM3
 Sampled:
 09/20/2019
 0:00

 Matrix:
 Aqueous
 Received:
 09/20/2019
 10:25

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
			Method:	SM 2540 D-1	997			Anal	yst: KMT
Total Suspended Solids								Prep Date/Ti	me:09/20/2019 11:09
Total Suspended Solids	eij	Α	12	1.0	1.0	n	ng/L	1	09/20/2019 12:39

ANALYTE TYPES: (AT)

A,B = Target Analyte I = Internal Standard

M = Summation Analyte

S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)



9/20/2019

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)

MDL: Minimum Detection Limit

Reporting Limit RL:

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.

Partial

Cooler ID: Default Cooler



9/20/2019

	# I II OK O B/ C	9/20/2019
Cooler Inspection Checklist		0/20/2010
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	



Chain of Custody

ArcelorMittal Burns Harbor/Microbac Labs

Friday

Lab Work No: 191 1259

* Date Obtained 9-20-1?
** Sample Date: 9-19-19

Location	Time	Sampler	Туре	Preserved	Cooled	Containers			D .	T
		\sim				Туре	Qty	Vol. (ml)	Parameters	Comments
011 **	06:15	4	Comp	No	Yes	Glass	1	4000		01
	پ.ريون		Grab	No	No	Plastic	1	125	рН	02
001 **	06:30		Comp	No	Yes	Glass	1	4000	NH3	03
	08.00		Grab	No	No	Plastic	1	125	pН	04
031 *	Milla		Grab	No	No	Plastic	1	1000	TSS	05
	00111		Grab	No	No	Plastic	1	1000	BOD	1
Mixed Liquor *	06:51		Grab	No	No	Plastic	1	2000	TSS, Settling	06
J-Box *	06:47		Grab	No	No	Glass	2	1000	NH3, Phenol, TSS, pH	07
DIW-131 *	MA		Grab	No	No	Plastic	1	125	На	
WWII *	07:10		Grab	No	No	Plastic	1	1000	Cn	08
Coldwell	07:20		Grab	No	No	Plastic	2	2000	NH3, CN, Pb, Zn, TSS	09
RSB FT Overflow *	07:30		Grab	No	No	Plastic	2	1000	NH3, pH, TSS, Pb, Zn	10
RSB FT Influent *	07:31		Grab	No	No	Plastic	1	500	TSS	71
BFTD *	08:00		Grab	No	No	Plastic	1	500	TSS	12
999 *	07:50		Grab	No	No	Plastic	1	500	TSS, pH	13
BFTC *	08:10		Grab	No	No	Plastic	1	500	TSS	14
002 **	08.15		Grab	No	No	Plastic	1	125	Hq	15
WAL 1 **	08:23		Grab	No	No	Glass	1 1	1000	TSS, pH	16
WAL 2 **	5-0		Grab	No	No	Glass	1 1	1000	TSS, pH	× ×
WAL 3 **	08:23		Grab	No	No	Glass	1	1000	TSS, pH	-
SWTP *	ug	***	Grab	No	No	Plastic	76	1000	TSS	17-22

*** WPL is for previous sample date

**** Sample collected by Water Process personnel

No HMI

6-0 -03 5-72 EI

Relinquished by:

Received by:

att

Date: <u>9-20-19</u>

Date: 9/20/19

Time: 08:50

Time: 0850

Env 5x Rev. 14 07/01/16 (TEK)

19i1259 Carey Gadzaia ArcelorMittal - Burns Harbor, IN Daily 09/20/2019



Microbac Laboratories - Chicagoland Division pH - METHOD 9045D Arcelor Mittal /Burns Harbor NPDES

Sample ID		pН	Analyst	Date/Time of Analysis
Buffer ID: Meter ID:	4: 185909	7: 188312	10: 191040	
Calibration	(4)100100		13A0	9/19/19 0805
ICV	4/17/10	7.00	(
Slope		101.5		
Lake 999		7.80		
Location 001		7.91		
Location 002		8.03		
Location 011		8-04		
WAL 1				
WAL 2				
SWTP J-Box		8.84		
DIW 131			,	
RSB		8.97		
Dup- RSB		8, 97		
ccv		7.01		
				,
				*

Sample ID		рН	Analyst	Date/Time of Analysis
Buffer ID: Meter ID:	4: 185909	7: 188312	10: 19/040	
Calibration	(1) D/18		BAO	9/20/19 0810
ICV	4 / Ø/ 10	6,99		
Slope		101.6		
Lake 999		7.85		
Location 001		7.85		
Location 002		8.02		
Location 011		8.07		
WAL 1		8.95		
WAL 2				
SWTP J-Box		8.55		
DIW 131				
RSB		8-94		
Dup- VAL		8.95		
CCV		7.01	V	L V
:				
			•	

Microbac Laboratories, Inc. - Chicagoland Division

Total Residual Chlorine - Amperometric Titration - SM Method 4500-CI E - 2000 for Arcelor Mittal - Burns Harbor

Chlorine, mg/L = (Titrant Vol., mL) (200 mL) / (Sample Vol., mL)

Dup Dup

Outfall

Outfall 002
Outfall 003
Outfall 011
Outfall 011

revision: a_01_2016

Contractor timesheet **Burns Harbor**

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Burns Harbor Contractor	Burns Harbor Contractor timesheet								ArcelorMittal
Section 1 Date	19 Shift Dev	Contractor company name		Labs	Cont	Contractor ref #/job #	#	Form number	309614
SorMittal Re	ArcelorMittal Representative		POn	PO number				Requisition number 0 799889	2
Department	EmD	Description of work	Sample	Se					Percent job complete
Section 2 Badge no. La	Last name Fi	First name	Craft ST	TO 0T	Г	Total	Billable equipmer	Billable equipment/subcontractors/material	Job notes
64042	Otto	Brim 7	Ec	•	FC		<u>Q</u>	Description	
							Oty	Hours/amt total	
							<u>Q</u>	Description	
							Oty	Hours/amt total	
							<u>Q</u>	Description	
							Qty	Hours/amt total	
							Q	Description	
							Qty	Hours/amt total	
							Q	Description	
							Oty	Hours/amt total	
Shifts	Shift start time	Total hours this sheet	this sheet	-			Q	Description	le this ich canital
Shift	Shift end time	Previ Total hou	Previous hours Total hours to date	_			Qty	Hours/amt total	Yes No Area Market
Section 3	total hours worked	ach craft in the box to the	right of each	abbreviation	. See reverse si	de of form for ar	explanation	abbreviation. See reverse side of form for an explanation of the abbreviations.	
ABW		INS		LA	MW		PT	TST	711111111111111111111111111111111111111
BM	CP FN	M		CIC	OE		SU	TM	
Section 4 I the undersign	Section 4 I the undersigned attest that the hours recorded on the timesheet were actually worked by	the timesheet were actu	ally worked b		Section 5 Work authorization	0,1	on 6 Indersigned h	ave verified that contractor empares complete valid for the date	Section 6 I the undersigned have verified that contractor employees, hours, and date listed on the sime sheat are accurate complete, valid for the date and plant work location listed above
ntractor aut	Contractor authorization signature	Job title Serving	-8 to	4			rMittal butho	ArcelorMittal buthorization signature	Job title Su pervi &
Printed name	"OH"	Date 9/20//	0		307344		Printed name	- Howard	Date 9/2, 1/5
·	or Canary - Contractor Dink - AM Becait	or Gold - AM Auth	orizer]	1				2013-08-RH-ContractorTimeShee

307344 Daily work authorization form for all visiting workers

For each job, and before starting work at the job site, a contractor representative must meet face to face with the ArcelorMittal representative responsible for the work and discuss the work to be performed and any specific safety requirements.

1	
11	9

46

Clinic pickup point_

ArcelorMittal representative phone number_

Section 2

ArcelorMittal The named contractor or work crew is cleared to perform the job described herein: Date ArcelorMittal representative department_ ArcelorMittal representative_ 769-8378 Section 1
Company name M. crobac Labs
Company name M. crobac Labs Company contact/phone no Care Galta.
Location and project/job description Environ Play

HIRAC-Lite	Yes N/A	A No			Yes	N/A	% %
1) Are emergency evacuation areas identified and known?			10) Could someone be caught in or between anything?	oetween anything?	0		
2) Is there a current and valid isolation (LOTO) procedure?			11) Could someone get hurt as a result of a fall from height?	ult of a fall from height?	0		
3) Will everyone apply a personal safety lock?			12) Can something fall and/or strike me or someone else?	me or someone else?	0		•
4) Are there adjacent work crews exposed (including ArcelorWittal employees)?	<u></u>	å	13) Is everyone properly trained for this job?	this job?	4	O	•
5) Are there potential hazards or high risk job steps?	•		14) Are flags and derails in place if needed?	eeded?	1		0
6) Do we have the correct tools for the job?			15) Can we slip or trip on anything (i	15) Can we slip or trip on anything (including travel to and from the job)?	þ		
7) Is additional PPE required?	•		16) Have all affected people been notified?	otified?	P		0
8) Is there a potential for exposure (chemical, radiation, laser, temperature)?			17) Can we strain or overexert ourselves?	ilves?			o
9) Is someone working on or near energized electrical equipment (motor control rooms, overhead power lines, etc.)?	• lo	Ď	18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment, etc.)	orior to use? (tools, PPE, mobile	(
Other Hazards and Considerations for Discussion				Permits			
Yes	N/A No		Yes N/A No Yes	N/A No		Yes N/A	No
19) Pneumatic air tools & lines	29) Sc	29) Scaffold work	< (> 12 33) Asbestos ()	27) Confined space			
20) Vehicle / mob equip traffic 📂 🗀 🕩 25) Production hazards 🌑 🖺	🗀 🗗 30) Ex	30) Explosives	(Noise ()	a8) Energized electrical work	work		À
21) Gas hazards-CO, CO2, etc.	1 (1) Ba	31) Barricades	(Tasers ()	29) Excavation / drilling	8		<u>r</u>
22) Hot process, metal, temp.	32) Ra	32) Radiation	() () 36) Sewers ()	40) Hot work			d
23) Pressurized / steam pipe 🛑 🗀 📫 28) Overhead work 🛑 🖪				41) Other			þ
Section 3	Hierarch	of Controls	Hierarchy of Controls 1. Elimination 2. Substitution 3. Engineering 4. Administrative	1. Administrative 5. PPE			
Visiting worker name (print) Badge # Hazard # B. OFFo (64042	Controls	41	Responsible Person Hazard #	Controls	Respi	Responsible Person	erson
but the satisfaced and control on an arc. The saturation	1,000		2 - 1 - 4			1 8	
Charles a literature of being the second of	174					* E-7 K	
18 Bewar	ot who	CUCH	Surfacer				7
1 Prove	littia	40	Cos (CA		1845	3 1 1 2	
30 Jelich	moder	ent.				5	
					1		1
Pa							
ge			313				Ì
2			The test of the section of				
OMy crew and I are familiar with the safety hazards/considerations for this job. We are ArcelorMittal representative named helow	/e are preparec	l to perfo	e prepared to perform the work in a safe "workmanship" like manner. I have reviewed these considerations with the	ke manner. I have reviewed these cor	nsideratio	ns with	the
Contractor or crew leader 7 - ArcelorMittal	tal representative	tative	July Mrt Re	Replacement rep/phone			
prior to signing) Original to contra	to AreclorMitta	represen		Controlled by Maintenance Administration Dept. ArcelorMittal Burns Harbor	celorMitt	al Burns	Harbor

2016-04-BH-DailyWorkAuthorization