

September 3, 2019

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

Work Order No.: 19I0034

Re: Daily

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 22 sample(s) on 9/3/2019 10:20:00AM for the analyses presented in the following report as Work Order 19/0034.

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 Macipala

Carey Gadzala Project Manager

Microbac Laboratories, Inc.



Partial 9/3/2019

WORK ORDER SAMPLE SUMMARY

Date:

Tuesday, September 3, 2019

Client:	Arcelor Mittal USA, Inc.
Project:	Daily
Lab Order:	1910034

1910034-01011-Composite01109/02/2019 06:009/3/2019 10:20:00AM1910034-02011-Grab01109/02/2019 06:009/3/2019 10:20:00AM1910034-04001-Composite00109/02/2019 06:209/3/2019 10:20:00AM1910034-05001-Grab00109/02/2019 06:209/3/2019 10:20:00AM1910034-06031-Grab00109/03/2019 06:319/3/2019 10:20:00AM1910034-07Mixed Liquor-GrabMixed Liquor09/03/2019 06:319/3/2019 10:20:00AM1910034-08J-Box-GrabJ-Box09/03/2019 06:299/3/2019 10:20:00AM1910034-09WWII-GrabWWII09/03/2019 06:559/3/2019 10:20:00AM
1910034-04001-Composite00109/02/2019 06:209/3/2019 10:20:00AM1910034-05001-Grab00109/02/2019 06:209/3/2019 10:20:00AM1910034-06031-Grab03109/03/2019 06:319/3/2019 10:20:00AM1910034-07Mixed Liquor-GrabMixed Liquor09/03/2019 07:159/3/2019 10:20:00AM1910034-08J-Box-GrabJ-Box09/03/2019 06:299/3/2019 10:20:00AM
1910034-05001-Grab00109/02/2019 06:209/3/2019 10:20:00AM1910034-06031-Grab03109/03/2019 06:319/3/2019 10:20:00AM1910034-07Mixed Liquor-GrabMixed Liquor09/03/2019 07:159/3/2019 10:20:00AM1910034-08J-Box-GrabJ-Box09/03/2019 06:299/3/2019 10:20:00AM
1910034-06031-Grab03109/03/2019 06:319/3/2019 10:20:00AM1910034-07Mixed Liquor-GrabMixed Liquor09/03/2019 07:159/3/2019 10:20:00AM1910034-08J-Box-GrabJ-Box09/03/2019 06:299/3/2019 10:20:00AM
1910034-07 Mixed Liquor-Grab Mixed Liquor 09/03/2019 07:15 9/3/2019 10:20:00AM 1910034-08 J-Box-Grab J-Box 09/03/2019 06:29 9/3/2019 10:20:00AM
1910034-08 J-Box-Grab J-Box 09/03/2019 06:29 9/3/2019 10:20:00AM
19I0034-09 W/WII-Grab W/WII 09/03/2019 06:55 9/3/2019 10:20:00AM
19I0034-10 Coldwell-Grab Coldwell 09/03/2019 07:15 9/3/2019 10:20:00AM
19I0034-11 RSB FT Overflow-Grab RSB FT Overflow 09/03/2019 07:20 9/3/2019 10:20:00AM
19I0034-12 RSB FT Influent-Grab RSB FT Influent 09/03/2019 07:21 9/3/2019 10:20:00AM
19I0034-13 BFTD-Grab BFTD 09/03/2019 07:55 9/3/2019 10:20:00AM
19I0034-14 999-Grab 999 09/03/2019 07:45 9/3/2019 10:20:00AM
19I0034-15 BFTC-Grab BFTC 09/03/2019 08:00 9/3/2019 10:20:00AM
19I0034-16 002-Grab 002 09/02/2019 08:11 9/3/2019 10:20:00AM
19I0034-17 WAL-Grab WAL 09/02/2019 08:22 9/3/2019 10:20:00AM
19I0034-19 CM2-Grab CM2 09/03/2019 00:00 9/3/2019 10:20:00AM
19I0034-20 CM6-Grab CM6 09/03/2019 00:00 9/3/2019 10:20:00AM
19I0034-21 HM2-Grab HM2 09/03/2019 00:00 9/3/2019 10:20:00AM
19I0034-22 HM3-Grab HM3 09/03/2019 00:00 9/3/2019 10:20:00AM



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Field Results		Date: Tuesday,	September 3, 2019
Client: Client Project:	Arcelor Mittal USA, Inc. Daily	Work Order:	1910034
Client Sample ID:	011-Grab	Work Order/ID:	1910034-02
Sample Description:	011	Sampled:	09/02/2019 06:00
Matrix:	Aqueous	Received:	09/03/2019 10:20
Analyses		Result	Units
FLD_CL_TITR		0.00	mg/L
рН		8.1	pH Units
Client Sample ID:	001-Grab	Work Order/ID:	1910034-05
Sample Description:	001	Sampled:	09/02/2019 06:20
Matrix:	Aqueous	Received:	09/03/2019 10:20
Analyses		Result	Units
FLD_CL_TITR		0.00	mg/L
рН		7.9	pH Units
Client Sample ID:	J-Box-Grab	Work Order/ID:	1910034-08
Sample Description:	J-Box	Sampled:	09/03/2019 06:29
Matrix:	Aqueous	Received:	09/03/2019 10:20
Analyses		Result	Units
рН		8.5	pH Units
Client Sample ID:	RSB FT Overflow-Grab	Work Order/ID:	1910034-11
Sample Description:	RSB FT Overflow	Sampled:	09/03/2019 07:20
Matrix:	Aqueous	Received:	09/03/2019 10:20
Analyses		Result	Units
рН		11	pH Units
Client Sample ID:	999-Grab	Work Order/ID:	1910034-14
Sample Description:	999	Sampled:	09/03/2019 07:45
Matrix:	Aqueous	Received:	09/03/2019 10:20
Analyses		Result	Units
рН		7.8	pH Units
Client Sample ID:	002-Grab	Work Order/ID:	1910034-16
Sample Description:	002	Sampled:	09/02/2019 08:11
Matrix:	Aqueous	Received:	09/03/2019 10:20
Analyses		Result	Units
рН		8.1	pH Units
Client Sample ID:	WAL-Grab	Work Order/ID:	1910034-17
Sample Description:	WAL	Sampled:	09/02/2019 08:22
Matrix:	Aqueous	Received:	09/03/2019 10:20
Analyses		Result	Units
рН		9.1	pH Units

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Field Results

Date: Tuesday, September 3, 2019

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Tuesday, September 3, 2019

Date:

Analytical Results

Client:	Arcelor Mittal US	A, Inc.								
Client Project:	Daily									
Client Sample ID:	011-Composite							Work (Order/ID:	1910034-01
Sample Description:	011							Sampl	ed:	09/02/2019 6:00
Matrix:	Aqueous							Receiv	ved:	09/03/2019 10:20
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method: El	PA 200.7 Re	v 4.4			Ana	alyst: RPL
Total Recoverable Me	tals by ICP								Prep Date/	ime:09/03/2019 10:52
Lead		eij	Α	ND	0.0033	0.0075	U	mg/L	1	09/03/2019 13:54
Zinc		eij	Α	0.015	0.0073	0.020	J	mg/L	1	09/03/2019 13:54
				Method: SI	M 4500-CN	C/E-1999			Ana	alyst: ABG
Total Cyanide									Prep Date/	ime:09/03/2019 11:15
Cyanide, Total		eij	Α	0.0042	0.0020	0.0050		mg/L	1	09/03/2019 14:09
				Method: SI	N-846 9014				An	alyst: ABG
Free Cyanide										ime:09/03/2019 10:40
Free Cyanide			Α	ND		0.0062		mg/L	1	09/03/2019 13:45
				Method: EI	PA 350.1 Re	v 2.0			An	alyst: ABG
Nitrogen, Ammonia as	s N									īme:09/03/2019 12:25
Nitrogen, Ammonia (A		ei	Α	0.24		0.10		mg/L	1	09/03/2019 13:08
				Method: EI	PA 420.4 Re	v 1.0			Ana	alyst: ABG
Total Phenolics										Time: 09/03/2019 12:25
Phenolics, Total Reco	verable	eij	Α	ND	0.0060	0.010	U	mg/L	1	09/03/2019 13:35
				Method: SI	W 2540 D-19	997			An	alyst: KMT
Total Suspended Solid	ds				2040 0-16					Time: 09/03/2019 10:45
Total Suspended Solid		eij	Α	1.2	1.0	1.0		mg/L	1	09/03/2019 12:50
in the second			1							

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Analytical Results Date: Tuesday, September 3, 2019 Arcelor Mittal USA, Inc. **Client: Client Project:** Daily 011-Grab Work Order/ID: 1910034-02 **Client Sample ID:** 011 09/02/2019 6:00 Sample Description: Sampled: Aqueous Matrix: **Received:** 09/03/2019 10:20 AT Result MDL RL Units DF Analyses Certs Qual Analyzed Method: EPA 1664B Analyst: KMT Oil & Grease (HEM) by SPE Prep Date/Time: 09/03/2019 10:43 A 2.0 1.4 5.0 mg/L 09/03/2019 14:43 Oil & Grease (HEM) eij 1

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Date:

Analytical Results

Client: Client Project:	Arcelor Mittal US Daily	A, Inc.								
-	,								0	4010024.0
Client Sample ID:	001-Composite 001								Order/ID:	1910034-04 09/02/2019 6:20
Sample Description:								Sampl Receiv		
Matrix:	Aqueous							Receiv	/ea:	09/03/2019 10:20
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method: El	PA 200.7 Re	v 4.4			An	alyst: RPL
Total Recoverable Me	tals by ICP								Prep Date/	Time:09/03/2019 10:52
Lead		eij	Α	ND	0.0033	0.0075	U	mg/L	1	09/03/2019 13:59
Zinc		eij	A	0.010	0.0073	0.020	J	mg/L	1	09/03/2019 13:59
				Method: SI	M 4500-CN	C/E-1999				alyst: ABG
Total Cyanide			•		0.0020	0.0050				Time: 09/03/2019 11:15 09/03/2019 14:11
Cyanide, Total		eij	A	0.0032	0.0020	0.0050		mg/L	1	09/03/2019 14:11
				Method: SI	N-846 9014					alyst: ABG
Free Cyanide									· · ·	Time:09/03/2019 10:40
Free Cyanide			A	ND		0.0062		mg/L	1	09/03/2019 13:47
				Method: EI	PA 350.1 Re	v 2.0			An	alyst: ABG
Nitrogen, Ammonia as	s N								Prep Date/	Time:09/03/2019 12:25
Nitrogen, Ammonia (A	s N)	ei	Α	0.30		0.10		mg/L	1	09/03/2019 13:15
				Method: EI	PA 420.4 Re	v 1.0			An	alyst: ABG
Total Phenolics									Prep Date/	Time:09/03/2019 12:25
Phenolics, Total Reco	verable	eij	Α	ND	0.0060	0.010	U	mg/L	1	09/03/2019 13:37
				Method: SI	W 2540 D-19	997			An	alyst: KMT
Total Suspended Soli	ds								Prep Date/	Time:09/03/2019 10:45
Total Suspended Solid		eij	Α	1.1	1.0	1.0		mg/L	1	09/03/2019 12:50

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Analytical Results Date: Tuesday, September 3, 2019 Arcelor Mittal USA, Inc. **Client: Client Project:** Daily 001-Grab Work Order/ID: 1910034-05 **Client Sample ID:** 001 09/02/2019 6:20 Sample Description: Sampled: Matrix: Aqueous **Received:** 09/03/2019 10:20 AT Result MDL RL Units DF Analyses Certs Qual Analyzed Method: EPA 1664B Analyst: KMT Oil & Grease (HEM) by SPE Prep Date/Time: 09/03/2019 10:43 A 3.3 1.4 5.0 mg/L 09/03/2019 14:43 Oil & Grease (HEM) eij 1

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Analytical Results Date: Tuesday, September 3, 2019 Arcelor Mittal USA, Inc. **Client: Client Project:** Daily 031-Grab Work Order/ID: 1910034-06 **Client Sample ID:** 031 09/03/2019 6:31 Sample Description: Sampled: Matrix: Aqueous **Received:** 09/03/2019 10:20 AT Result MDL RL Units DF Analyses Certs Qual Analyzed Method: SM 2540 D-1997 Analyst: KMT **Total Suspended Solids** Prep Date/Time: 09/03/2019 10:45 A 3.5 1.0 1.0 mg/L 09/03/2019 12:50 Total Suspended Solids eij 1

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Analytical Res	sults							Date:	Tuesday	/, September 3, 2019
Client: Client Project:	Arcelor Mittal USA Daily	, Inc.								
Client Sample ID:	Mixed Liquor-Grat	C						Work	Order/ID:	1910034-07
Sample Description:	Mixed Liquor							Sampl	ed:	09/03/2019 7:15
Matrix:	Aqueous							Receiv	/ed:	09/03/2019 10:20
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 F-19	97			An	alyst: AMR
Settleable Solids									Prep Date/	Time:09/03/2019 10:50
Settleable Solids		i	A	190	1.0	1.0		ml/L	1	09/03/2019 11:50
				Method:	SM 2540 D-19	97			An	alyst: KMT
Total Suspended Solid	ls								Prep Date/	Time:09/03/2019 10:45
Total Suspended Solid	S	eij	Α	2200	1.0	1.0		mg/L	1	09/03/2019 12:50



Analytical Results Date: Tuesday, September 3, 2019 **Client:** Arcelor Mittal USA, Inc. **Client Project:** Daily J-Box-Grab 1910034-08 **Client Sample ID:** Work Order/ID: Sample Description: J-Box Sampled: 09/03/2019 6:29 09/03/2019 10:20 Matrix: Aqueous **Received:** AT Analyses Certs Result MDL RL Qual Units DF Analyzed Method: EPA 350.1 Rev 2.0 Analyst: ABG Prep Date/Time: 09/03/2019 12:25 Nitrogen, Ammonia as N 09/03/2019 13:46 Nitrogen, Ammonia (As N) ei A 0.30 0.10 mg/L 1 Method: EPA 420.4 Rev 1.0 Analyst: ABG Prep Date/Time:09/03/2019 12:25 **Total Phenolics** А 0.0060 0.010 09/03/2019 13:38 Phenolics, Total Recoverable eij ND υ mg/L 1 Method: SM 2540 D-1997 Analyst: KMT Prep Date/Time: 09/03/2019 10:45 **Total Suspended Solids** Total Suspended Solids A 10 1.0 mg/L 09/03/2019 12:50 eij 1.0 1



Tuesday, September 3, 2019

Date:

Analytical Results Client: Arcelor Mittal USA, Inc. Client Project: Daily

•	,									
Client Sample ID:	WWII-Grab							Work	Order/ID:	1910034-09
Sample Description:	WWII							Sampl	ed:	09/03/2019 6:55
Matrix:	Aqueous							Receiv	ved:	09/03/2019 10:20
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Analyses		Certs	AT		MDL SM 4500-CN		Qual	Units		Analyzed alyst: ABG
Analyses Total Cyanide		Certs	AT				Qual	Units	An	- ,



Analytical Re	sults						D	ate:	Tuesday	; September 3, 2019
Client: Client Project:	Arcelor Mittal US Daily	SA, Inc.								
Client Sample ID: Sample Description:	Coldwell-Grab Coldwell							Work (Sampl	Order/ID: ed:	19I0034-10 09/03/2019 7:15
Matrix:	Aqueous							Receiv	/ed:	09/03/2019 10:20
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Total Cyanide				Method:	SM 4500-CN (C/E-1999				alyst: ABG Fime: 09/03/2019 11:15
Cyanide, Total		eij	Α	0.054	0.0020	0.0050	n	ng/L	1	09/03/2019 14:14
Nitrogen, Ammonia as	s N			Method: I	EPA 350.1 Re	v 2.0				alyst: ABG Fime: 09/03/2019 12:25
Nitrogen, Ammonia (A		ei	Α	52		1.0	n	ng/L	1	09/03/2019 13:53
				Method:	SM 2540 D-19	997			Ana	alyst: KMT
Total Suspended Soli	ds								Prep Date/	Time:09/03/2019 10:45
Total Suspended Solid	ls	eij	Α	91	1.0	1.0	n	ng/L	1	09/03/2019 12:50



Analytical Res	sults							Date:	Tuesday	v, September 3, 2019	
Client: Client Project:	Arcelor Mittal USA Daily	, Inc.									
Client Sample ID: Sample Description:	,	RSB FT Overflow-Grab							Work Order/ID: 19100 Sampled: 09/03/2019		
Matrix:	Aqueous							Receiv	ved:	09/03/2019 10:20	
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
				Method:	EPA 350.1 Re	ev 2.0			An	alyst: ABG	
Nitrogen, Ammonia as	s N								Prep Date/	Time:09/03/2019 12:25	
Nitrogen, Ammonia (A	s N)	ei	A	6.7		0.10		mg/L	1	09/03/2019 13:55	
				Method:	SM 2540 D-1	997			An	alyst: KMT	
Total Suspended Solid	ls								Prep Date/	Time:09/03/2019 10:45	
Total Suspended Solid	s	eij	Α	11	1.0	1.0		mg/L	1	09/03/2019 12:50	



Analytical Results Date: Tuesday, September 3, 2019 **Client:** Arcelor Mittal USA, Inc. **Client Project:** Daily **RSB FT Influent-Grab** Work Order/ID: 1910034-12 **Client Sample ID: RSB FT Influent** 09/03/2019 7:21 Sample Description: Sampled: Matrix: Aqueous **Received:** 09/03/2019 10:20 AT MDL RL Units DF Analyses Certs Result Qual Analyzed Method: SM 2540 D-1997 Analyst: KMT **Total Suspended Solids** Prep Date/Time: 09/03/2019 10:45 A 1700 1.0 1.0 mg/L 09/03/2019 12:50 Total Suspended Solids eij 1



Analytical Results Date: Tuesday, September 3, 2019 **Client:** Arcelor Mittal USA, Inc. **Client Project:** Daily **BFTD-Grab** Work Order/ID: 1910034-13 **Client Sample ID:** BFTD 09/03/2019 7:55 Sample Description: Sampled: Matrix: Aqueous **Received:** 09/03/2019 10:20 AT Result MDL RL Units DF Analyses Certs Qual Analyzed Method: SM 2540 D-1997 Analyst: KMT **Total Suspended Solids** Prep Date/Time: 09/03/2019 10:45 A 55 1.0 1.0 mg/L 09/03/2019 12:50 Total Suspended Solids eij 1

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Analytical Results

Tuesday, September 3, 2019

Client:	Arcelor Mittal U	SA, Inc.								
Client Project:	Daily									
Client Sample ID:	999-Grab							Work	Order/ID:	1910034-14
Sample Description:	999							Samp	ed:	09/03/2019 7:45
Matrix:	Aqueous							Receiv	ved:	09/03/2019 10:20
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
				Method:	SM 2540 D-1	997			An	alyst: KMT
Total Suspended Soli	ds								Prep Date/	Time:09/03/2019 10:45
Total Suspended Solid	ls	eij	Α	1.8	1.0	1.0		mg/L	1	09/03/2019 12:50



1910034-15

09/03/2019 8:00

09/03/2019 10:20

Analytical Results Tuesday, September 3, 2019 Date: Arcelor Mittal USA, Inc. **Client: Client Project:** Daily **BFTC-Grab** Work Order/ID: **Client Sample ID:** BFTC Sample Description: Sampled: Matrix: Aqueous **Received:** Analyses Certs AT Result MDL RL Qual Units DF

Analyses	Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed	
			Method:	6M 2540 D-1	997			An	alyst: KMT	•
Total Suspended Solids								Prep Date/	Time:09/03/2019 10:45	
Total Suspended Solids	eij	A	39	1.0	1.0	m	g/L	1	09/03/2019 12:50	1



Analytical Results Date: Tuesday, September 3, 2019 Arcelor Mittal USA, Inc. **Client: Client Project:** Daily CM2-Grab Work Order/ID: 1910034-19 **Client Sample ID:** CM2 09/03/2019 0:00 Sample Description: Sampled: Matrix: Aqueous **Received:** 09/03/2019 10:20 AT Result MDL RL Units DF Analyses Certs Qual Analyzed Method: SM 2540 D-1997 Analyst: KMT **Total Suspended Solids** Prep Date/Time: 09/03/2019 10:45 A 14 1.0 1.0 mg/L 09/03/2019 12:50 Total Suspended Solids eij 1

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Analytical Results

Tuesday, September 3, 2019

Client Project:	Daily									
Client Sample ID:	CM6-Grab							Work	Order/ID:	1910034-20
Sample Description:	CM6							Samp	ed:	09/03/2019 0:00
Matrix:	Aqueous							Receiv	ved:	09/03/2019 10:20
		0		Desult	MDI	ы	Qual	Linita	DF	A walk was d
Analyses		Certs	AT	Result	MDL	RL	Quai	Units	DF	Analyzed
Analyses		Certs	AI		MDL SM 2540 D-1		Quai	Units		Ilyst: KMT
Analyses Total Suspended Soli	ds	Certs	AI				Quai	Units	Ana	



Analytical Results

Tuesday, September 3, 2019

Total Suspended Solid	ds	eij	A	28	1.0	1.0		mg/L	1	09/03/2019 12:50
Total Suspended Soli	ds								Prep Date/	lime:09/03/2019 10:45
				Method:	SM 2540 D-1	997			Ana	alyst: KMT
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Matrix:	Aqueous							Receiv	ved:	09/03/2019 10:20
Sample Description:	HM2							Samp	ed:	09/03/2019 0:00
Client Sample ID:	HM2-Grab							Work	Order/ID:	1910034-21
Client Project:	Daily									
Client:	Arcelor Mittal U	SA, Inc.								



Analytical Results

Tuesday, September 3, 2019

Client Sample ID:	HM3-Grab							Work	Order/ID:	1910034-22
Sample Description:	HM3							Sampl	ed:	09/03/2019 0:00
Matrix:	Aqueous							Receiv	ved:	09/03/2019 10:20
		. .					<u> </u>			
Analyses		Certs	AT	Result	MDL	RL	Qual	Units	DF	Analyzed
Analyses		Certs	AT		MDL SM 2540 D-19		Qual	Units		Analyzed
Analyses Total Suspended Soli	ds	Certs	AT				Qual	Units	Ana	

A,B = Target Analyte I = Internal Standard

- M = Summation Analyte
- S = Surrogate

T = Tentatively Identified Compound (TIC, concentration estimated)

MICROBAC[®]



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)

J: MDL:	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. 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



Partial 9/3/2019

Cooler Inspection Checklist	
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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

Monday

Lab Work No: 1970034

* Date Obtained ** Sample Date:

Time	Sampler	Type Comp Grab	Preserved No	Cooled Yes	Туре	Qty	Vol. (ml)	Parameters	Comments
e,00	GP		No	Voo				·	Comments
e,00		Grab		ies	Glass	1	4000	NH3, TSS, Zn, Pb	01
	1 1		No	No	Plastic	1	500	pH. Tot Res Cl	02
		Grab	Yes	No	Glass	2	1000	FOG (prepreserved)	+0700
2. 20		Comp	No	Yes	Glass	1	4000	NH3	04
2.20		Grab	No	No	Plastic	1	125	pH	05
26.21		Grab	No	Yes	Plastic	1	1000	TSS	06
4.51		Grab	No	No	Plastic	1	1000	BOD	V
27:15		Grab	No	No	Plastic	1	2000	TSS, Settling	07
4:29		Grab	No	No	Glass	2	1000	NH3, Phenol, TSS, pH	08
1p		Grab	No	No	Plastic	1	125	pH	
6:55		Grab	No	No	Plastic	1	1000	Cn	09
2:15		Grab	No	No	Plastic	2	2000	NH3, CN, Pb, Zn, TSS	10
27:20		Grab	No	No	Plastic	2	1000		
17:21		Grab	No	No	Plastic	1	500	Annalise and a second	12
27:55		Grab	No	No	Plastic	1	500		13
7:45		Grab	No	No	Plastic	1	500	and the second	17
8:00		Grab	No	No		1			15
8:11		Grab	No	No		1	1000 C		16
28:22		Grab	No	No		1 1			
		Grab				1			$\vdash \smile $
		Grab				1			-
	****					76			18-22
	4:29 442 2:55 2:15 2:20 7:21 7:21	06:31 07:15 07:15 07:50 07:50 07:50 07:20 07:20 07:20 07:20 07:20 07:20 07:21 07:55 <t< td=""><td>Grab Grab Grab <t< td=""><td>Grab No Grab No Grab</td><td>Grab No No Grab Grab No Yes Grab No No No Grab <t< td=""><td>GrabNoNoPlasticGrabNoYesPlasticGrabNoNoNoPlastic</td><td>GrabNoNoPlastic1GrabNoYesPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic2GrabNoNoNoPlastic2GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNoNoPlastic1GrabNoNo</td><td>Grab No No Plastic 1 125 Grab No Yes Plastic 1 1000 Grab No No No Plastic 1 1000 Grab No No No Plastic 1 1000 Grab No No No Plastic 1 2000 Grab No No No Plastic 1 2000 Grab No No No Plastic 1 2000 Grab No No No Glass 2 1000 Grab No No No Plastic 1 125 Grab No No No Plastic 1 1000 C:SS Grab No No No Plastic 1 500 C:SS Grab No No No Plastic 1 500 C:SS <t< td=""><td>Grab No No Plastic 1 125 pH Grab No Yes Plastic 1 1000 TSS Grab No No No Plastic 1 1000 BOD Grab No No No Plastic 1 1000 BOD Grab No No No Plastic 1 2000 TSS, Settling Grab No No No Glass 2 1000 NH3, Phenol, TSS, pH Grab No No No Plastic 1 1000 Cn Grab No No No Plastic 1 1000 Cn Grab No No No Plastic 2 2000 NH3, CN, Pb, Zn, TSS Grab No No No Plastic 1 500 TSS Grab No No No Plastic 1 500 <t< td=""></t<></td></t<></td></t<></td></t<></td></t<>	Grab Grab <t< td=""><td>Grab No Grab No Grab</td><td>Grab No No Grab Grab No Yes Grab No No No Grab <t< 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**** Sample collected by Water Process personnel

No CM 3+ HM (

4.6

Relinquished by: Received by:

Date: 9 Date:

Time: Time: 0845

Env 1x Rev. 14 07/01/16 (TEK)

Carey Gadzala 1910034 ArcelorMittal - Burns Harbor, IN Daily 09/03/2019



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

Sample ID		рН	Analyst	Date/Time of Analysis
Buffer ID:	4: 185909	7: 188312	10: 191040	
Meter ID:			BAO	9/3/19 0800
Calibration		7.00	1	
	<u>4 / O/ 10</u>			
Slope		101.0		
Lake 999				
Location 001		7.91		
Location 002		8.10		
Location 011		805		
WAL 1		9.05		
WAL 2				
SWTP J-Box		8.49		
DIW 131		· ·		· · · · · · · · · · · · · · · · · · ·
		10.98		
RSB		10.99		
Dup-RSD		7.01	57	
CCV		7.01	¥	
-		<u> </u>		

Sample ID		pH	Analyst	Date/Time of Analysis
Buffer ID:	4:	7:	10:	
Meter ID:				
Calibration	4 / 7 / 10			
ICV	4 / 7 / 10			
Slope				· · · · · · · · · · · · · · · · · · ·
Lake 999				· · · · · · · · · · · · · · · · · · ·
Location 001				
Location 002				
Location 011				
WAL 1				
WAL 2				
SWTP J-Box				
DIW 131			······································	
RSB				
Dup-				
CCV			· · · · · · · · · · · · · · · · · · ·	

Page 26 of 29

Microbac Laboratories, Inc. - Chicagoland Division Residual Chlorine - METHOD SM 4500-Cl I-2000 Arcelor Mittal /Burns Harbor NPDES

Meter ID: Iodine Reagent:	Meter 146367	Residual Chlorin Acid Reagent:	e Standard: <i> 4</i> 7	A 90 7 4	-	-
Semple (D	Residual Chlorine		Analyst		Date/Time	e of Andlysis
Cal Std 1-	<u>0.02-mg/L</u>		BAO		9/2/19	0810
Gal Std 2	0.05 mg/L					<u>(</u>
,Cal-Std 3-	0.1 mg/L					<u> </u>
Slope Black	0.00					
LCS 0.02 mg/L	0.10					
011	0.00					
011 DUP	0.00					
001	0.00		-			
002	0.00			·		
003	0.00					
DUP 003	0.00		<u> </u>			<u>V</u>

Meter ID: Iodine Reagent:	BH meter 146367	Residual Chlori Acid Reagent:	ne Standard: 	A 9074	
Sample ID	Residual Chlorine		Analyst	Date/Til	ne of Analysis
Cal-Std 1	0.02 mg/L		DAO	9/3/19	0800
Cal-Std 2	0.05 mg/L			·	
Cal-Std 3	0.1-mg/L				
StopeBlan	0.00				
LCS 0.02 mg/L	0.08				
011	0.00				
011 DUP	0.00				
001	0.00				
002	0.00				_
003	0.00				
DUP 001	0.00		<u> </u>		<u>v</u>

Meter ID:		dual Chlorine Standard:	
lodine Reagent:	Acid	Reagent:	
Sample ID	Residual Chlorine	Analyst	Date/Time of Analysis
Cal Std 1	0.02 mg/L		
Cal Std 2	0.05 mg/L		
Cal Std 3	0.1 mg/L		
Slope			
LCS 0.02 mg/L	·		
011		· ·	
011 DUP			
001			
002	· · · · · · · · · · · · · · · · · · ·		
003			
DUP			

Page

ArcelorMittal	Form number 309679	1897	Percent job complete	/material Job notes		4												Is this job capital work?	Ves Ves				Section 6 I the undersigned have verified that contractor employees, hours, and date listed on the structure of the section of the sector date of the sector date interval between the sector of the sector of the	Job title Say en Say	Date / /
	14 - 14 - 14 - 14 - 14 - 14 - 14 - 14 -	Requisition number		Billable equipment/subcontractors/material	Description	Hours/amt total	Description	Hours/amt total		Description	Hours/amt total	Description	Hours/amt total		Description	Hours/amt total	Description			n of the abbreviation	TEC	TM	have verified that co	ArcelorMittal authorization sgnature	11
	ref #/job #			Total equipm		Gty	<u>_</u>	Oto	5	9	Oty	<u>_</u>	Gty	4	<u>0</u>	Qty	0		An)	orm for an explanation	PF	2 IS	Section 6 I the undersigned	Arcelor Mittal auth	Printed name
	Contractor ref #/job #		52	D														5 m		See reverse side of fo	LTR	MW	Section 5 Work authorization		1
	La 65	PO number	Sanples		- 0	04 52-451 C								2			et)	S	L L	each abbreviation.	JAN	LIC	1.2	Tech	
	Contractor company name		Description of work	Craft	tEC			10.100	S. 1. 1. S				24 A	2			Total hours this sheet	Previous hours	Total hours to date	le box to the right of	GLZ	SNI M	et were actually worl	Errie	11
et	Contract	6	Descrip	First name	Brian			1								- - -				d by each craft in th		EN	ded on the timeshee	Job title	Date
Burns Harbor Contractor timesheet	19 Shift	presentative Hurad	田しの	Last name	040	1.2.2 1.0.2													Shift end time	Enter the total hours worked by each craft in the box to the right of each abbreviation. See reverse side of form for an explanation of the abbreviations.	5	38	Section 4 I the undersigned attest that the hours recorded on the timesheet were actually worked by	Contractor authorization signature	
Burns Harbor Contractor	Section 1 Date 9/3/	Arcelor Mittal Representative	Department	Section 2 Badge no. La	164042 1												CF: 17		Shift e	Section 3	ABW	BM	Section 4 I the undersigned	Contractor autho	Printed name

	ArcelorMittal	9/3/19		Yes N/A No						p);					Yes N/A No		rical work 🛑 🥅 其	illing 🛑 🛄			Responsible Person	101년 ~ 31 전 것이~	< _ satione the E	The second se			All a second sec	on on the manual			considerations with the	Replacement rep/phone
			Clinic pickup point		ything?	from height?	eone else?		fill and the	avel to and from the jo	1. 194 - 1- 1-		? (tools, PPE, mobile	Permits	12 53	37) Confined space	38) Energized electrical work	39) Excavation / drilling	40) Hot work		e 5. PPE Controls									Adv. a YET Ser	have reviewed these	t rep/phone
	orMittal	read to perform the jo	481	51 ⁰ = 51 ⁰	ught in or between any	irt as a result of a fall f	d/or strike me or some	rained for this job?	ו place if needed?	anything (including tra	ole been notified?	exert ourselves?	nspected prior to use?		Yes N/A No				S 2		3. Engineering 4. Administrative Hazard #		100 ms		아파 이 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가 가				an a	a state of the	anship" like manner. l	Replacement rep/phone
	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.	The named contractor or work crew is cleared to perform the job described herein: ArcelorMittal representative <u>the rreation</u> <u>Date</u> <u>Date</u>	ArcelorMittal representative phone number		10) Could someone be caught in or between anything?	11) Could someone get hurt as a result of a fall from height?	12) Can something fall and/or strike me or someone else?	13) Is everyone properly trained for this job?	14) Are flags and derails in place if needed?	15) Can we slip or trip on anything (including travel to and from the job)?	16) Have all affected people been notified?	17) Can we strain or overexert ourselves?	18) Has equipment been inspected prior to use? (tools, PPE, mobile equipment, etc.)	*	Yes N/A No		134) Noise	🛑 🖂 🌌 35) Lasers	O O O O O O O O O O		1. Elimination 2. Substitution 3. E Responsible Person Haz		0	wtacer	50100	지수는 물건 것은 것이 있다.					e prepared to perform the work in a safe "yorkmanship" like manner. I have reviewed these considerations with the	X X
g workers	ative must meet face at and any specific s		1	Yes MAA No										1	No	29) Scaffold work	and 30) Explosives	31) Barricades	32) Radiation		Hierarchy of Controls 1. Controls			Ut coch Si	- verent				- "T]		prepared to perform 1	representative
307289 Dailv 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 A representative responsible for the work and discuss the work to be performed and any specific safety requirements.	a, 767-8	kg/ water samples	o site ils stifteet. All ola	~	C. S. LAND, S.	 Database de 2 de 21 - 10 	lorMittal employees)?	PL 10 13 51 52 82 0			iser, temperature)?	ipment (motor control	1	Yes N/A	keeping	25) Production hazards 🔵 🦲	al handling 🛑 🛄 📕	and rigging		Hazard # C			Deware of	20 Jelich		and the second second	A POINT AND THERE	s felvium des publications	Li Taki jatač arust	My crew and I are familiar with the safety hazards/considerations for this job. We are ArcelorMittal representative named below.	ArcelorMittal re
rization form	g work at the job site, he work and discuss tl	M. en bac Labs et/phone no Carey Gadzal	n Eruito Blo	AND DESCRIPTION OF AN AND AN	1) Are emergency evacuation areas identified and known?	2) Is there a current and valid isolation (LOTO) procedure?	safety lock?	4) Are there adjacent work crews exposed (including ArcelorMittal employees)?	high risk job steps?	or the job?		8) Is there a potential for exposure (chemical, radiation, laser, temperature)?	9) Is someone working on or near energized electrical equipment (motor control rooms, overhead power lines, etc.)?	ons for Discussion	Yes N/A No	24) Housekeeping	🚩 🛄 🛃 25) Produc	26) Material handling	Crane and rigging	V HING IN THE AND INCLUSION AND INCLUS AND INCL	Badge # Ha				14					1	safety hazards/consider d below.	10
07289 vork author	o, and before starting ive responsible for th	ne M. crobac	Location and project/job description_ Section 2		rgency evacuation area	current and valid isola	3) Will everyone apply a personal safety lock?	e adjacent work crews (5) Are there potential hazards or high risk job steps?	6) Do we have the correct tools for the job?	7) Is additional PPE required?	a potential for exposure	 Is someone working on or near er rooms, overhead power lines, etc.)? 	Other Hazards and Considerations for Discussion	Yes	19) Pneumatic air tools & lines 🛑	20) Vehicle / mob equip traffic 🔎	21) Gas hazards-CO, CO2, etc. 🛑	22) Hot process, metal, temp.	adid ilipate / na		 						antered as a market			My crew and I are familiar with the safety h ArcelorMittal representative named below.	Contractor or crew leader
30 ⁻ Dailv wo	For each job, an representative r	Section 1 Company name <u>M.'~~</u> Company contact/phone no_	Location and proj Section 2	HIRAC-Lite	1) Are emergen	2) Is there a curi	3) Will everyone	4) Are there adj	5) Are there pot	6) Do we have th	7) Is additional F	8) IS THERE a pot	 Is someone w rooms, overhead 	Other Hazards		19) Pneumatic air	20) Vehicle / mot	21) Gas hazards-(22) Hot process, metal, temp	Contion 2	Visiting worker name (print)		1 S. 10				1.447 \$ 4 long	iona ta			My crew and l are ArcelorMittal repr	so so to contract

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