



August 27, 2019

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

Work Order No.: 19H1598

Re: NPDES Excursion

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 25 sample(s) on 8/26/2019 9:50:00AM for the analyses presented in the following report as Work Order 19H1598.

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.

A handwritten signature in black ink that reads "Carey Gadzala". The signature is written in a cursive, flowing style.

Carey Gadzala
Project Manager

[Microbac Laboratories, Inc.](http://www.microbac.com)



WORK ORDER SAMPLE SUMMARY

Date: *Tuesday, August 27, 2019*

Client: Arcelor Mittal USA, Inc.
Project: NPDES Excursion
Lab Order: 19H1598

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H1598-01	15 Portage Marina East		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-02	#8		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-03	#9		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-04	#10		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-05	#11		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-06	#12		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-07	SL-1		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-08	#13		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-09	#14		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-10	#7		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-11	#6		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-12	#5		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-13	#4		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-14	#3		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-15	#2		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-16	#1		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-17	OF001		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-18	000		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-19	SL-2		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-20	SL-3		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-21	SL-4		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-22	SL-5		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-23	SL-6		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-24	SL-7		08/25/2019 09:50	8/26/2019 9:50:00AM
19H1598-25	SL-8		08/25/2019 09:50	8/26/2019 9:50:00AM

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

Field Results

Date: *Tuesday, August 27, 2019*

Client: Arcelor Mittal USA, Inc.	Work Order: 19H1598
Client Project: NPDES Excursion	
Client Sample ID: 15 Portage Marina East	Work Order/ID: 19H1598-01
Sample Description:	Sampled: 08/25/2019 09:50
Matrix: Aqueous	Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	5.9	mg/L
pH	7.32	pH Units
Temperature	23.7	Deg C

Client Sample ID: #8	Work Order/ID: 19H1598-02
Sample Description:	Sampled: 08/25/2019 09:50
Matrix: Aqueous	Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	5.9	mg/L
pH	7.28	pH Units
Temperature	23.4	Deg C

Client Sample ID: #9	Work Order/ID: 19H1598-03
Sample Description:	Sampled: 08/25/2019 09:50
Matrix: Aqueous	Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	5.5	mg/L
pH	7.32	pH Units
Temperature	23.6	Deg C

Client Sample ID: #10	Work Order/ID: 19H1598-04
Sample Description:	Sampled: 08/25/2019 09:50
Matrix: Aqueous	Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	6.0	mg/L
pH	7.35	pH Units
Temperature	23.7	Deg C

Client Sample ID: #11	Work Order/ID: 19H1598-05
Sample Description:	Sampled: 08/25/2019 09:50
Matrix: Aqueous	Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	5.9	mg/L
pH	7.44	pH Units
Temperature	23.5	Deg C

Client Sample ID: #12	Work Order/ID: 19H1598-06
Sample Description:	Sampled: 08/25/2019 09:50
Matrix: Aqueous	Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	6.0	mg/L

[Microbac Laboratories, Inc.](http://www.microbac.com)

Field Results

Date: *Tuesday, August 27, 2019*

pH	7.47	pH Units
Temperature	23.8	Deg C

Client Sample ID: SL-1
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-07
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	8.0	mg/L
pH	7.91	pH Units
Temperature	21.7	Deg C

Client Sample ID: #13
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-08
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	6.9	mg/L
pH	7.73	pH Units
Temperature	22.6	Deg C

Client Sample ID: #14
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-09
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	8.3	mg/L
pH	7.96	pH Units
Temperature	24.2	Deg C

Client Sample ID: #7
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-10
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	5.7	mg/L
pH	7.51	pH Units
Temperature	23.4	Deg C

Client Sample ID: #6
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-11
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	6.4	mg/L
pH	7.71	pH Units
Temperature	22.4	Deg C

Client Sample ID: #5
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-12
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
----------	--------	-------

Field Results

Date: *Tuesday, August 27, 2019*

Dissolved Oxygen	6.3	mg/L
pH	7.73	pH Units
Temperature	22.6	Deg C

Client Sample ID: #4
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-13
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	6.6	mg/L
pH	7.72	pH Units
Temperature	22.8	Deg C

Client Sample ID: #3
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-14
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	6.6	mg/L
pH	7.76	pH Units
Temperature	22.4	Deg C

Client Sample ID: #2
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-15
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	6.4	mg/L
pH	7.76	pH Units
Temperature	22.7	Deg C

Client Sample ID: #1
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-16
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	7.1	mg/L
pH	7.73	pH Units
Temperature	23.3	Deg C

Client Sample ID: OF001
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-17
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	6.4	mg/L
pH	7.79	pH Units
Temperature	24.4	Deg C

Field Results

Date: *Tuesday, August 27, 2019*

Client Sample ID: 000 **Work Order/ID:** 19H1598-18
Sample Description: **Sampled:** 08/25/2019 09:50
Matrix: Aqueous **Received:** 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	6.7	mg/L
pH	7.77	pH Units
Temperature	21.3	Deg C

Client Sample ID: SL-2 **Work Order/ID:** 19H1598-19
Sample Description: **Sampled:** 08/25/2019 09:50
Matrix: Aqueous **Received:** 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	8.2	mg/L
pH	8.04	pH Units
Temperature	23.2	Deg C

Client Sample ID: SL-3 **Work Order/ID:** 19H1598-20
Sample Description: **Sampled:** 08/25/2019 09:50
Matrix: Aqueous **Received:** 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	7.7	mg/L
pH	8.11	pH Units
Temperature	23.4	Deg C

Client Sample ID: SL-4 **Work Order/ID:** 19H1598-21
Sample Description: **Sampled:** 08/25/2019 09:50
Matrix: Aqueous **Received:** 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	8.0	mg/L
pH	8.04	pH Units
Temperature	23.7	Deg C

Client Sample ID: SL-5 **Work Order/ID:** 19H1598-22
Sample Description: **Sampled:** 08/25/2019 09:50
Matrix: Aqueous **Received:** 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	7.6	mg/L
pH	7.92	pH Units
Temperature	23.9	Deg C

Client Sample ID: SL-6 **Work Order/ID:** 19H1598-23
Sample Description: **Sampled:** 08/25/2019 09:50
Matrix: Aqueous **Received:** 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	6.7	mg/L
pH	7.99	pH Units
Temperature	24.2	Deg C

Field Results

Date: *Tuesday, August 27, 2019*

Client Sample ID: SL-7
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-24
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	6.8	mg/L
pH	8.02	pH Units
Temperature	23.8	Deg C

Client Sample ID: SL-8
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-25
Sampled: 08/25/2019 09:50
Received: 08/26/2019 09:50

Analyses	Result	Units
Dissolved Oxygen	7.1	mg/L
pH	8.0	pH Units
Temperature	23.8	Deg C

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-01
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	15 Portage Marina East	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 12:58								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:28
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 12:37
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 11:05								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	0.11	0.10		mg/L	1	08/26/2019 13:52

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-02
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#8	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 12:58								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:30
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 12:39
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 12:20								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	0.16	0.10		mg/L	1	08/26/2019 13:55

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-03
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#9	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999					Analyst: AJR	
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/26/2019 13:14			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:32
		Method: SW-846 9014					Analyst: AJR	
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/26/2019 11:29			
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 12:41
		Method: EPA 350.1 Rev 2.0					Analyst: ABG	
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/26/2019 12:20			
Nitrogen, Ammonia (As N)	di	A	0.16	0.10		mg/L	1	08/26/2019 14:07

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-04
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#10	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 13:14								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:33
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 12:42
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 12:20								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	0.21	0.10		mg/L	1	08/26/2019 14:14

Analytical Results

Date: Tuesday, August 27, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-05
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#11	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 13:14								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:35
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 12:44
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 13:07								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	0.12	0.10		mg/L	1	08/26/2019 14:45

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-06
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#12	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999						
		Prep Method: NA						
					Analyst: AJR			
					Prep Date/Time: 08/26/2019 13:14			
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:37
		Method: SW-846 9014						
		Prep Method: SW-846 9014						
					Analyst: AJR			
					Prep Date/Time: 08/26/2019 11:29			
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 12:46
		Method: EPA 350.1 Rev 2.0						
		Prep Method: EPA 350.1 Rev 2.0						
					Analyst: ABG			
					Prep Date/Time: 08/26/2019 13:07			
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 14:48

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-07
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	SL-1	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999						
		Prep Method: NA						
					Analyst: AJR			
					Prep Date/Time: 08/26/2019 13:14			
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:42
		Method: SW-846 9014						
		Prep Method: SW-846 9014						
					Analyst: AJR			
					Prep Date/Time: 08/26/2019 11:29			
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 12:47
		Method: EPA 350.1 Rev 2.0						
		Prep Method: EPA 350.1 Rev 2.0						
					Analyst: ABG			
					Prep Date/Time: 08/26/2019 13:07			
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 14:50

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-08
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#13	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: AJR		
Total Cyanide		Prep Method: NA				Prep Date/Time: 08/26/2019 12:58		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:43
		Method: SW-846 9014				Analyst: AJR		
Free Cyanide		Prep Method: SW-846 9014				Prep Date/Time: 08/26/2019 11:29		
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 12:49
		Method: EPA 350.1 Rev 2.0				Analyst: ABG		
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0				Prep Date/Time: 08/26/2019 13:07		
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 14:53

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-09
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#14	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 12:58								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:45
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:05
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 13:07								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 14:55

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-10
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#7	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 12:58								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:47
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:07
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 13:07								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	0.18	0.10		mg/L	1	08/26/2019 14:57

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-11
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#6	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 12:58								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:48
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:12
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 13:07								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	0.20	0.10		mg/L	1	08/26/2019 15:00

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-12
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#5	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SM 4500-CN C/E-1999		Analyst: AJR			
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/26/2019 12:58			
Cyanide, Total	dij	A	0.0070	0.0050		mg/L	1	08/26/2019 15:50
			Method: SW-846 9014		Analyst: AJR			
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/26/2019 11:29			
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:17
			Method: EPA 350.1 Rev 2.0		Analyst: ABG			
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/26/2019 13:07			
Nitrogen, Ammonia (As N)	di	A	0.21	0.10		mg/L	1	08/26/2019 15:02

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-13
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#4	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999					Analyst: AJR	
Total Cyanide			Prep Method: NA			Prep Date/Time: 08/26/2019 12:58		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:52
		Method: SW-846 9014					Analyst: AJR	
Free Cyanide			Prep Method: SW-846 9014			Prep Date/Time: 08/26/2019 11:29		
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:26
		Method: EPA 350.1 Rev 2.0					Analyst: ABG	
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0			Prep Date/Time: 08/26/2019 13:07		
Nitrogen, Ammonia (As N)	di	A	0.16	0.10		mg/L	1	08/26/2019 15:05

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-14
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#3	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 12:58								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 15:53
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:27
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 13:07								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	0.16	0.10		mg/L	1	08/26/2019 15:31

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-15
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#2	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: AJR		
Total Cyanide			Prep Method: NA				Prep Date/Time: 08/26/2019 13:14	
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 16:09
		Method: SW-846 9014				Analyst: AJR		
Free Cyanide			Prep Method: SW-846 9014				Prep Date/Time: 08/26/2019 11:29	
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:29
		Method: EPA 350.1 Rev 2.0				Analyst: ABG		
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0				Prep Date/Time: 08/26/2019 13:07	
Nitrogen, Ammonia (As N)	di	A	0.16	0.10		mg/L	1	08/26/2019 15:33

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-16
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	#1	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 13:14								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 16:10
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:31
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 13:07								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	0.19	0.10		mg/L	1	08/26/2019 15:35

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-17
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	OF001	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 14:17								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 16:54
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:32
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 13:07								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	0.26	0.10		mg/L	1	08/26/2019 15:38



Analytical Results

Date: Tuesday, August 27, 2019

Client: Arcelor Mittal USA, Inc.
Client Project: NPDES Excursion
Client Sample ID: 000
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1598-18
Sampled: 08/25/2019 9:50
Received: 08/26/2019 9:50

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 14:17								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 16:56
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:34
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 13:07								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 15:40

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



Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-19
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	SL-2	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: AJR		
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/26/2019 14:17			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 16:57
		Method: SW-846 9014				Analyst: AJR		
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/26/2019 11:29			
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:36
		Method: EPA 350.1 Rev 2.0				Analyst: ABG		
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/26/2019 13:07			
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 15:42

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

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-20
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	SL-3	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 14:17								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 16:59
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:37
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 13:07								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 15:45



Analytical Results

Date: Tuesday, August 27, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-21
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	SL-4	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 13:00								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 17:03
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:39
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 13:07								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 15:47

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

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-22
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	SL-5	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: AJR		
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/26/2019 13:00			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 17:04
		Method: SW-846 9014				Analyst: AJR		
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/26/2019 11:29			
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 13:41
		Method: EPA 350.1 Rev 2.0				Analyst: ABG		
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/26/2019 14:30			
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 15:50

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-23
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	SL-6	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: AJR		
Total Cyanide			Prep Method: NA				Prep Date/Time: 08/26/2019 13:00	
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 17:06
		Method: SW-846 9014				Analyst: AJR		
Free Cyanide			Prep Method: SW-846 9014				Prep Date/Time: 08/26/2019 11:29	
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 14:34
		Method: EPA 350.1 Rev 2.0				Analyst: ABG		
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0				Prep Date/Time: 08/26/2019 14:30	
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 16:02

Analytical Results

Date: *Tuesday, August 27, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-24
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	SL-7	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 13:00								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 17:08
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 14:36
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 14:30								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 16:04

Analytical Results

Date: Tuesday, August 27, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1598-25
Client Project:	NPDES Excursion	Sampled:	08/25/2019 9:50
Client Sample ID:	SL-8	Received:	08/26/2019 9:50
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
Method: SM 4500-CN C/E-1999 Analyst: AJR								
Prep Method: NA Prep Date/Time: 08/26/2019 13:00								
Total Cyanide								
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/26/2019 17:09
Method: SW-846 9014 Analyst: AJR								
Prep Method: SW-846 9014 Prep Date/Time: 08/26/2019 11:29								
Free Cyanide								
Free Cyanide		A	ND	0.0062		mg/L	1	08/26/2019 14:38
Method: EPA 350.1 Rev 2.0 Analyst: ABG								
Prep Method: EPA 350.1 Rev 2.0 Prep Date/Time: 08/26/2019 14:30								
Nitrogen, Ammonia as N								
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/26/2019 16:06

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 dates or 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?	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 Laboratories, Inc.

250 West 84th Drive | Merrillville, IN 46410 | 800.536.8379 p | 219.769.8378 p | 219.769.1664 f | www.microbac.com

CHAIN OF CUSTODY RECORD



Number **152255**
Instructions on back

TO BE COMPLETED BY MICROBAC
 Temperature Upon Receipt (°C) 71
 Therm ID 23
 Holding Time 68
 Samples Received on Ice? Yes No N/A
 Custody Seals Intact? Yes No N/A

Turnaround Time
 Routine (5 to 7 business days)
 RUSH* (notify lab)
 (needed by)
 Report Type
 Results Only Level 1 Level 2 Level 3 Level 4 EDD

Invoice Address
 Client Name: **AMBH**
 Address:
 City, State, Zip:
 Contact:
 Telephone No.:

Send Report via: Mail Fax e-mail (address)
 Compliance Monitoring? Yes No
 Agency/Program

Project: **Receiving Water Monitoring** Location:
 Sampled by (PRINT): **Patrick Solomon** Sampler Signature: *Patrick Solomon* Sampler Phone No.: **219-664-7585**
 PO No.:

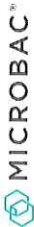
* Matrix Types: Soil/Solid (S), Sludge, Oil, Wipe, Drinking Water (DW), Groundwater (GW), Surface Water (SW), Waste Water (WW), Other (specify)
 * Preservative Types: (1) HNO3, (2) H2SO4, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexane, (U) Unpreserved

Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	NH4	Cn (Total)	Cn (Free)	Temp (Field)	pH (Field)	D.O. (Field)	Additional Notes
15-Portage	8/25/19	10:05	3	AQ	U, 2, 4		X	X	X	23.7	7.32	5.9	19H1598
8-9		10:09								23.4	7.28	5.9	61
10		10:14								23.6	7.32	5.5	02
11		10:20								23.7	7.35	6.0	03
12		10:25								23.5	7.44	5.9	04
5L-1		10:30								23.8	7.47	6.0	05
13		10:35								21.7	7.91	8.0	06
14		10:40								22.6	7.73	6.9	07
7		10:58								24.2	7.96	8.3	08
		11:05								23.4	7.51	5.7	09
													10

Possible Hazard Identification: Hazardous Non-Hazardous Radioactive Sample Disposition: Dispose as appropriate Return Archive

Comments: **When collected**
Time
pH
Temp
D.O.

Relinquished By (signature) *Patrick Solomon* Date/Time **8/25/19 12:58**
 Received By (signature) *[Signature]* Date/Time **8/26/19 0800**
 Relinquished By (signature) *[Signature]* Date/Time **8/26/19 0950**
 Received By (signature) *[Signature]* Date/Time **8/26/19 0930**



Number **152358**

Instructions on back

Lab Report Address

Client Name: **AMBH**

Address:

City, State, Zip:

Contact:

Telephone No.:

Send Report via: Mail Fax e-mail (address)

Turnaround Time

Routine (5 to 7 business days)
 RUSH* (notify lab)

Holding Time

(needed by)

Report Type

Results Only Level 1 Level 2 Level 3 Level 4 EDD

TO BE COMPLETED BY MICROBAC

Temperature Upon Receipt (°C)

Therm ID

Holding Time

Samples Received on Ice? Yes No N/A

Custody Seals Intact? Yes No N/A

Project: **Receiving Water Monitoring**

Sampled by (PRINT): **Patrick Coleman**

Sampler Signature: *Patrick Coleman*

Sampler Phone No.: **219-644-7585**

PO No.:

Compliance Monitoring? Yes No

Agency/Program

* 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

REQUESTED ANALYSIS

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Temp (°C)	pH	Temp (Field)	pH (Field)	Temp (Field)	Additional Notes
	6	8/25/19	11:09	3	AQ	G	U, 2, 4	22.4	7.78	6.4	0.0	6.4	1941598
	5		11:16	1				22.6	7.73	6.3		6.3	-11
	4		11:23	1				22.8	7.72	6.6		6.6	-12
	3		11:27	1				22.4	7.76	6.6		6.6	-13
	2		11:31	1				22.7	7.76	6.4		6.4	-14
	1		11:38	1				23.3	7.73	7.1		7.1	-15
	OF 001		11:48	1				24.4	7.79	6.4		6.4	-14
													-17

Possible Hazard Identification Hazardous Non-Hazardous Radioactive

Sample Disposition Dispose as appropriate Return Archive

Comments: **When collected Time pH temp D.D.**

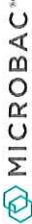
Relinquished By (signature) *Patrick Coleman*
 Date/Time: **8/25/19 12:50**

Received By (signature) *M. OBO*
 Date/Time: **8/26/19 0800**

Relinquished By (signature) *M. OBO*
 Date/Time: **8/26/19 0950**

Received By (signature) *David*
 Date/Time: **8/26/19 0950**

CHAIN OF CUSTODY RECORD



Number **152257**
Instructions on back

Lab Report Address
Client Name: **AMBH**
Address:
City, State, Zip:
Contact:
Telephone No.:

Invoice Address
Client Name:
Address:
City, State, Zip:
Contact:
Telephone No.:

Turnaround Time
 Routine (5 to 7 business days)
 RUSH* (notify lab)
Holding Time
Samples Received on Ice: Yes No N/A
Custody Seals Intact? Yes No N/A

Send Report via: Mail Fax e-mail (address)
Send Invoice via: Mail Fax e-mail (address)
Compliance Monitoring? Yes No
 Agency/Program

Project: **Receiving Water Monitoring** Location: **219-644-7585**
Sampler Signature: *[Signature]*
Sampler Phone No.:

Sampled by (PRINT): **Patrick Gurman**
* 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

Lab ID	Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	Xn (Total)	Xn (Free)	Temp (Field)	pH (Field)	D.O. (Field)	Additional Notes
	000	8/25/19	13:38	3	AQ	G	U, 2.4	X	X	21.3	7.77	6.7	19H1598
	SL-2		14:26							23.2	8.04	8.2	-19
	SL-3		14:35							23.4	8.11	7.7	-19
	SL-4		14:44							23.7	8.04	8.0	-20
	SL-5		14:52							23.9	7.92	7.6	-21
	SL-6		15:30							24.2	7.99	6.7	-22
	SL-7		15:38							23.8	8.02	6.8	-23
	SL-8		16:08							23.8	8.00	7.1	-24
													-25

Possible Hazard Identification Hazardous Non-Hazardous Radioactive Sample Disposition Dispose as appropriate Return Archive

Comments: **When collected Time pH Temp D.O.**

Relinquished By (signature) *[Signature]* Date/Time **8/25/19 16:49**
Relinquished By (signature) *[Signature]* Date/Time **8/26/19 0800**
Relinquished By (signature) *[Signature]* Date/Time **8/26/19 0850**
Relinquished By (signature) *[Signature]* Date/Time **8/25/19 0950**