

August 25, 2019

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

Work Order No.: 19H1551

Re: NPDES Excursion

Dear Teri Kirk:

Microbac Laboratories, Inc. - Chicagoland Division received 24 sample(s) on 8/25/2019 10:00:00AM for the analyses presented in the following report as Work Order 19H1551.

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.



Carey Gadzala
Project Manager



WORK ORDER SAMPLE SUMMARY

Date: *Sunday, August 25, 2019*

Client: Arcelor Mittal USA, Inc.
Project: NPDES Excursion
Lab Order: 19H1551

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19H1551-01	#9		08/24/2019 09:41	8/25/2019 10:00:00AM
19H1551-02	#10		08/24/2019 09:50	8/25/2019 10:00:00AM
19H1551-03	#11		08/24/2019 09:58	8/25/2019 10:00:00AM
19H1551-04	#12		08/24/2019 10:05	8/25/2019 10:00:00AM
19H1551-05	#8		08/24/2019 10:20	8/25/2019 10:00:00AM
19H1551-06	Marina Shores West Basin		08/24/2019 10:33	8/25/2019 10:00:00AM
19H1551-07	#7		08/24/2019 10:42	8/25/2019 10:00:00AM
19H1551-08	#6		08/24/2019 10:49	8/25/2019 10:00:00AM
19H1551-09	#5		08/24/2019 10:55	8/25/2019 10:00:00AM
19H1551-10	#4		08/24/2019 11:02	8/25/2019 10:00:00AM
19H1551-11	#3		08/24/2019 11:10	8/25/2019 10:00:00AM
19H1551-12	#2		08/24/2019 11:15	8/25/2019 10:00:00AM
19H1551-13	#1		08/24/2019 11:25	8/25/2019 10:00:00AM
19H1551-14	OF001		08/24/2019 11:36	8/25/2019 10:00:00AM
19H1551-15	Portage Marina East		08/24/2019 12:29	8/25/2019 10:00:00AM
19H1551-16	000		08/24/2019 14:28	8/25/2019 10:00:00AM
19H1551-17	SL-1		08/24/2019 15:10	8/25/2019 10:00:00AM
19H1551-18	SL-2		08/24/2019 15:30	8/25/2019 10:00:00AM
19H1551-19	SL-3		08/24/2019 15:43	8/25/2019 10:00:00AM
19H1551-20	SL-4		08/24/2019 15:54	8/25/2019 10:00:00AM
19H1551-21	SL-5		08/24/2019 16:06	8/25/2019 10:00:00AM
19H1551-22	SL-6		08/24/2019 16:43	8/25/2019 10:00:00AM
19H1551-23	SL-7		08/24/2019 16:52	8/25/2019 10:00:00AM
19H1551-24	SL-8		08/24/2019 17:39	8/25/2019 10:00:00AM

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: Sunday, August 25, 2019

Client: Arcelor Mittal USA, Inc.
Client Project: NPDES Excursion

Work Order: 19H1551

Client Sample ID: #9
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1551-01
Sampled: 08/24/2019 09:41
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	5.2	mg/L
pH	7.52	pH Units
Temperature	23.7	Deg C

Client Sample ID: #10
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1551-02
Sampled: 08/24/2019 09:50
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	5.4	mg/L
pH	7.70	pH Units
Temperature	23.3	Deg C

Client Sample ID: #11
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1551-03
Sampled: 08/24/2019 09:58
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	5.8	mg/L
pH	7.66	pH Units
Temperature	23.4	Deg C

Client Sample ID: #12
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1551-04
Sampled: 08/24/2019 10:05
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	5.5	mg/L
pH	7.71	pH Units
Temperature	24	Deg C

Client Sample ID: #8
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1551-05
Sampled: 08/24/2019 10:20
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	6.1	mg/L
pH	7.80	pH Units
Temperature	22.2	Deg C

Client Sample ID: Marina Shores West Basin
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1551-06
Sampled: 08/24/2019 10:33
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	7.9	mg/L

Microbac Laboratories, Inc.

Field Results

Date: Sunday, August 25, 2019

pH	7.99	pH Units
Temperature	24.1	Deg C

Client Sample ID: #7
Sample Description:
Matrix: Aqueous
Work Order/ID: 19H1551-07
Sampled: 08/24/2019 10:42
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	5.4	mg/L
pH	7.56	pH Units
Temperature	23.3	Deg C

Client Sample ID: #6
Sample Description:
Matrix: Aqueous
Work Order/ID: 19H1551-08
Sampled: 08/24/2019 10:49
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	5.6	mg/L
pH	7.64	pH Units
Temperature	23.1	Deg C

Client Sample ID: #5
Sample Description:
Matrix: Aqueous
Work Order/ID: 19H1551-09
Sampled: 08/24/2019 10:55
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	5.4	mg/L
pH	7.77	pH Units
Temperature	22.4	Deg C

Client Sample ID: #4
Sample Description:
Matrix: Aqueous
Work Order/ID: 19H1551-10
Sampled: 08/24/2019 11:02
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	6.0	mg/L
pH	7.78	pH Units
Temperature	22.7	Deg C

Client Sample ID: #3
Sample Description:
Matrix: Aqueous
Work Order/ID: 19H1551-11
Sampled: 08/24/2019 11:10
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	6.9	mg/L
pH	7.85	pH Units
Temperature	22.8	Deg C

Client Sample ID: #2
Sample Description:
Matrix: Aqueous
Work Order/ID: 19H1551-12
Sampled: 08/24/2019 11:15
Received: 08/25/2019 10:00

Analyses	Result	Units
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Field Results

Date: Sunday, August 25, 2019

Dissolved Oxygen	6.5	mg/L
pH	7.75	pH Units
Temperature	22.9	Deg C

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

Work Order/ID: 19H1551-13
Sampled: 08/24/2019 11:25
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	6.5	mg/L
pH	7.81	pH Units
Temperature	23.8	Deg C

Client Sample ID: OF001
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1551-14
Sampled: 08/24/2019 11:36
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	6.7	mg/L
pH	7.81	pH Units
Temperature	24.8	Deg C

Client Sample ID: Portage Marina East
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1551-15
Sampled: 08/24/2019 12:29
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	7.7	mg/L
pH	7.67	pH Units
Temperature	25.1	Deg C

Client Sample ID: 000
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1551-16
Sampled: 08/24/2019 14:28
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	6.6	mg/L
pH	7.60	pH Units
Temperature	25	Deg C

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

Work Order/ID: 19H1551-17
Sampled: 08/24/2019 15:10
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	7.0	mg/L
pH	7.83	pH Units
Temperature	25	Deg C

Field Results

Date: Sunday, August 25, 2019

Client Sample ID: SL-2 **Work Order/ID:** 19H1551-18
Sample Description: **Sampled:** 08/24/2019 15:30
Matrix: Aqueous **Received:** 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	7.8	mg/L
pH	7.91	pH Units
Temperature	25	Deg C

Client Sample ID: SL-3 **Work Order/ID:** 19H1551-19
Sample Description: **Sampled:** 08/24/2019 15:43
Matrix: Aqueous **Received:** 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	7.2	mg/L
pH	8.0	pH Units
Temperature	25	Deg C

Client Sample ID: SL-4 **Work Order/ID:** 19H1551-20
Sample Description: **Sampled:** 08/24/2019 15:54
Matrix: Aqueous **Received:** 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	7.0	mg/L
pH	8.02	pH Units
Temperature	23.4	Deg C

Client Sample ID: SL-5 **Work Order/ID:** 19H1551-21
Sample Description: **Sampled:** 08/24/2019 16:06
Matrix: Aqueous **Received:** 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	6.9	mg/L
pH	7.92	pH Units
Temperature	23.2	Deg C

Client Sample ID: SL-6 **Work Order/ID:** 19H1551-22
Sample Description: **Sampled:** 08/24/2019 16:43
Matrix: Aqueous **Received:** 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	7.0	mg/L
pH	8.09	pH Units
Temperature	23.3	Deg C

Client Sample ID: SL-7 **Work Order/ID:** 19H1551-23
Sample Description: **Sampled:** 08/24/2019 16:52
Matrix: Aqueous **Received:** 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	7.6	mg/L
pH	8.08	pH Units
Temperature	23.1	Deg C

Field Results

Date: Sunday, August 25, 2019

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

Work Order/ID: 19H1551-24
Sampled: 08/24/2019 17:39
Received: 08/25/2019 10:00

Analyses	Result	Units
Dissolved Oxygen	7.3	mg/L
pH	8.03	pH Units
Temperature	22.9	Deg C

Analytical Results

Date: *Sunday, August 25, 2019*

Client: Arcelor Mittal USA, Inc.
Client Project: NPDES Excursion
Client Sample ID: #9
Sample Description:
Matrix: Aqueous

Work Order/ID: 19H1551-01
Sampled: 08/24/2019 9:41
Received: 08/25/2019 10:00

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SM 4500-CN C/E-1999			Analyst: EF		
Total Cyanide			Prep Method: NA			Prep Date/Time: 08/25/2019 11:15		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:30
			Method: SW-846 9014			Analyst: lachat4		
Free Cyanide			Prep Method: SW-846 9014			Prep Date/Time: 08/25/2019 10:06		
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 11:41
			Method: EPA 350.1 Rev 2.0			Analyst: EF		
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0			Prep Date/Time: 08/25/2019 12:49		
Nitrogen, Ammonia (As N)	di	A	0.26	0.10		mg/L	1	08/25/2019 14:44

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-02
Client Project:	NPDES Excursion	Sampled:	08/24/2019 9:50
Client Sample ID:	#10	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999					Analyst: EF	
Total Cyanide			Prep Method: NA			Prep Date/Time: 08/25/2019 11:15		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:32
		Method: SW-846 9014					Analyst: lachat4	
Free Cyanide			Prep Method: SW-846 9014			Prep Date/Time: 08/25/2019 10:06		
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 11:46
		Method: EPA 350.1 Rev 2.0					Analyst: EF	
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0			Prep Date/Time: 08/25/2019 12:49		
Nitrogen, Ammonia (As N)	di	A	0.27	0.10		mg/L	1	08/25/2019 14:51

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-03
Client Project:	NPDES Excursion	Sampled:	08/24/2019 9:58
Client Sample ID:	#11	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999						
		Prep Method: NA						
					Analyst: EF			
Total Cyanide					Prep Date/Time: 08/25/2019 11:15			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:37
		Method: SW-846 9014						
		Prep Method: SW-846 9014						
					Analyst: lachat4			
Free Cyanide					Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 11:48
		Method: EPA 350.1 Rev 2.0						
		Prep Method: EPA 350.1 Rev 2.0						
					Analyst: EF			
Nitrogen, Ammonia as N					Prep Date/Time: 08/25/2019 12:49			
Nitrogen, Ammonia (As N)	di	A	0.16	0.10		mg/L	1	08/25/2019 14:54

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-04
Client Project:	NPDES Excursion	Sampled:	08/24/2019 10:05
Client Sample ID:	#12	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999			Analyst: EF			
Total Cyanide		Prep Method: NA			Prep Date/Time: 08/25/2019 11:15			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:38
		Method: SW-846 9014			Analyst: lachat4			
Free Cyanide		Prep Method: SW-846 9014			Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 11:49
		Method: EPA 350.1 Rev 2.0			Analyst: EF			
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0			Prep Date/Time: 08/25/2019 12:49			
Nitrogen, Ammonia (As N)	di	A	0.17	0.10		mg/L	1	08/25/2019 14:56

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-05
Client Project:	NPDES Excursion	Sampled:	08/24/2019 10:20
Client Sample ID:	#8	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SM 4500-CN C/E-1999		Analyst: EF			
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/25/2019 11:15			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:40
			Method: SW-846 9014		Analyst: lachat4			
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 11:51
			Method: EPA 350.1 Rev 2.0		Analyst: EF			
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/25/2019 12:49			
Nitrogen, Ammonia (As N)	di	A	0.39	0.10		mg/L	1	08/25/2019 14:58

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-06
Client Project:	NPDES Excursion	Sampled:	08/24/2019 10:33
Client Sample ID:	Marina Shores West Basin	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999					Analyst: EF	
Total Cyanide		Prep Method: NA			Prep Date/Time: 08/25/2019 11:15			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:42
		Method: SW-846 9014					Analyst: lachat4	
Free Cyanide		Prep Method: SW-846 9014			Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 11:53
		Method: EPA 350.1 Rev 2.0					Analyst: EF	
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0			Prep Date/Time: 08/25/2019 12:49			
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/25/2019 15:01

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-07
Client Project:	NPDES Excursion	Sampled:	08/24/2019 10:42
Client Sample ID:	#7	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SM 4500-CN C/E-1999		Analyst: EF			
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/25/2019 11:15			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 16:30
			Method: SW-846 9014		Analyst: lachat4			
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 11:54
			Method: EPA 350.1 Rev 2.0		Analyst: EF			
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/25/2019 12:49			
Nitrogen, Ammonia (As N)	di	A	0.28	0.10		mg/L	1	08/25/2019 15:03

Analytical Results

Date: Sunday, August 25, 2019

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-08
Client Project:	NPDES Excursion	Sampled:	08/24/2019 10:49
Client Sample ID:	#6	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: EF		
Total Cyanide		Prep Method: NA				Prep Date/Time: 08/25/2019 11:15		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:47
		Method: SW-846 9014				Analyst: lachat4		
Free Cyanide		Prep Method: SW-846 9014				Prep Date/Time: 08/25/2019 10:06		
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 11:56
		Method: EPA 350.1 Rev 2.0				Analyst: EF		
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0				Prep Date/Time: 08/25/2019 12:49		
Nitrogen, Ammonia (As N)	di	A	0.23	0.10		mg/L	1	08/25/2019 15:06

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-09
Client Project:	NPDES Excursion	Sampled:	08/24/2019 10:55
Client Sample ID:	#5	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: EF		
Total Cyanide		Prep Method: NA				Prep Date/Time: 08/25/2019 11:15		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:48
		Method: SW-846 9014				Analyst: lachat4		
Free Cyanide		Prep Method: SW-846 9014				Prep Date/Time: 08/25/2019 10:06		
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:01
		Method: EPA 350.1 Rev 2.0				Analyst: EF		
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0				Prep Date/Time: 08/25/2019 12:49		
Nitrogen, Ammonia (As N)	di	A	0.24	0.10		mg/L	1	08/25/2019 15:08

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-10
Client Project:	NPDES Excursion	Sampled:	08/24/2019 11:02
Client Sample ID:	#4	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: EF		
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/25/2019 11:15			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:50
		Method: SW-846 9014				Analyst: lachat4		
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:03
		Method: EPA 350.1 Rev 2.0				Analyst: EF		
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/25/2019 12:49			
Nitrogen, Ammonia (As N)	di	A	0.20	0.10		mg/L	1	08/25/2019 15:48

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-11
Client Project:	NPDES Excursion	Sampled:	08/24/2019 11:10
Client Sample ID:	#3	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: EF		
Total Cyanide		Prep Method: NA				Prep Date/Time: 08/25/2019 11:15		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:55
		Method: SW-846 9014				Analyst: lachat4		
Free Cyanide		Prep Method: SW-846 9014				Prep Date/Time: 08/25/2019 10:06		
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:04
		Method: EPA 350.1 Rev 2.0				Analyst: EF		
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0				Prep Date/Time: 08/25/2019 12:49		
Nitrogen, Ammonia (As N)	di	A	0.20	0.10		mg/L	1	08/25/2019 15:51

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-12
Client Project:	NPDES Excursion	Sampled:	08/24/2019 11:15
Client Sample ID:	#2	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SM 4500-CN C/E-1999		Analyst: EF			
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/25/2019 11:15			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:57
			Method: SW-846 9014		Analyst: lachat4			
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:09
			Method: EPA 350.1 Rev 2.0		Analyst: EF			
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/25/2019 12:49			
Nitrogen, Ammonia (As N)	di	A	0.17	0.10		mg/L	1	08/25/2019 15:53

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-13
Client Project:	NPDES Excursion	Sampled:	08/24/2019 11:25
Client Sample ID:	#1	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999			Analyst: EF			
Total Cyanide		Prep Method: NA			Prep Date/Time: 08/25/2019 11:15			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 14:59
		Method: SW-846 9014			Analyst: lachat4			
Free Cyanide		Prep Method: SW-846 9014			Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:11
		Method: EPA 350.1 Rev 2.0			Analyst: EF			
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0			Prep Date/Time: 08/25/2019 12:49			
Nitrogen, Ammonia (As N)	di	A	0.18	0.10		mg/L	1	08/25/2019 15:56

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-14
Client Project:	NPDES Excursion	Sampled:	08/24/2019 11:36
Client Sample ID:	OF001	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SM 4500-CN C/E-1999		Analyst: EF			
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/25/2019 11:15			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 15:00
			Method: SW-846 9014		Analyst: lachat4			
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:13
			Method: EPA 350.1 Rev 2.0		Analyst: EF			
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/25/2019 15:00			
Nitrogen, Ammonia (As N)	di	A	0.30	0.10		mg/L	1	08/25/2019 15:58

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-15
Client Project:	NPDES Excursion	Sampled:	08/24/2019 12:29
Client Sample ID:	Portage Marina East	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SM 4500-CN C/E-1999		Analyst: EF			
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/25/2019 11:15			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 15:02
			Method: SW-846 9014		Analyst: lachat4			
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:15
			Method: EPA 350.1 Rev 2.0		Analyst: EF			
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/25/2019 15:00			
Nitrogen, Ammonia (As N)	di	A	0.16	0.10		mg/L	1	08/25/2019 16:00

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-16
Client Project:	NPDES Excursion	Sampled:	08/24/2019 14:28
Client Sample ID:	000	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: EF		
Total Cyanide		Prep Method: NA				Prep Date/Time: 08/25/2019 14:00		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 16:32
		Method: SW-846 9014				Analyst: lachat4		
Free Cyanide		Prep Method: SW-846 9014				Prep Date/Time: 08/25/2019 10:06		
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:16
		Method: EPA 350.1 Rev 2.0				Analyst: EF		
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0				Prep Date/Time: 08/25/2019 15:00		
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/25/2019 16:03

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-17
Client Project:	NPDES Excursion	Sampled:	08/24/2019 15:10
Client Sample ID:	SL-1	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999			Analyst: EF			
Total Cyanide		Prep Method: NA			Prep Date/Time: 08/25/2019 14:00			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 16:33
		Method: SW-846 9014			Analyst: lachat4			
Free Cyanide		Prep Method: SW-846 9014			Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:21
		Method: EPA 350.1 Rev 2.0			Analyst: EF			
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0			Prep Date/Time: 08/25/2019 15:00			
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/25/2019 16:05

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-18
Client Project:	NPDES Excursion	Sampled:	08/24/2019 15:30
Client Sample ID:	SL-2	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999			Analyst: EF			
Total Cyanide		Prep Method: NA			Prep Date/Time: 08/25/2019 14:00			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 16:35
		Method: SW-846 9014			Analyst: lachat4			
Free Cyanide		Prep Method: SW-846 9014			Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:23
		Method: EPA 350.1 Rev 2.0			Analyst: EF			
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0			Prep Date/Time: 08/25/2019 15:00			
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/25/2019 16:17

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-19
Client Project:	NPDES Excursion	Sampled:	08/24/2019 15:43
Client Sample ID:	SL-3	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
			Method: SM 4500-CN C/E-1999		Analyst: EF			
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/25/2019 14:00			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 16:37
			Method: SW-846 9014		Analyst: lachat4			
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/25/2019 10:06			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:25
			Method: EPA 350.1 Rev 2.0		Analyst: EF			
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/25/2019 15:00			
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/25/2019 16:24

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-20
Client Project:	NPDES Excursion	Sampled:	08/24/2019 15:54
Client Sample ID:	SL-4	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: EF		
Total Cyanide		Prep Method: NA				Prep Date/Time: 08/25/2019 14:00		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 16:38
		Method: SW-846 9014				Analyst: lachat4		
Free Cyanide		Prep Method: SW-846 9014				Prep Date/Time: 08/25/2019 10:06		
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:26
		Method: EPA 350.1 Rev 2.0				Analyst: EF		
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0				Prep Date/Time: 08/25/2019 15:00		
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/25/2019 16:27

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-21
Client Project:	NPDES Excursion	Sampled:	08/24/2019 16:06
Client Sample ID:	SL-5	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: EF		
Total Cyanide			Prep Method: NA		Prep Date/Time: 08/25/2019 14:35			
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 16:40
		Method: SW-846 9014				Analyst: lachat4		
Free Cyanide			Prep Method: SW-846 9014		Prep Date/Time: 08/25/2019 10:07			
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:28
		Method: EPA 350.1 Rev 2.0				Analyst: EF		
Nitrogen, Ammonia as N			Prep Method: EPA 350.1 Rev 2.0		Prep Date/Time: 08/25/2019 15:00			
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/25/2019 16:29

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-22
Client Project:	NPDES Excursion	Sampled:	08/24/2019 16:43
Client Sample ID:	SL-6	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: EF		
Total Cyanide		Prep Method: NA				Prep Date/Time: 08/25/2019 14:35		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 16:42
		Method: SW-846 9014				Analyst: lachat4		
Free Cyanide		Prep Method: SW-846 9014				Prep Date/Time: 08/25/2019 10:07		
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:30
		Method: EPA 350.1 Rev 2.0				Analyst: EF		
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0				Prep Date/Time: 08/25/2019 15:00		
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/25/2019 16:31

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-23
Client Project:	NPDES Excursion	Sampled:	08/24/2019 16:52
Client Sample ID:	SL-7	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: EF		
Total Cyanide		Prep Method: NA				Prep Date/Time: 08/25/2019 14:35		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 16:47
		Method: SW-846 9014				Analyst: lachat4		
Free Cyanide		Prep Method: SW-846 9014				Prep Date/Time: 08/25/2019 10:07		
Free Cyanide		A	ND	0.0062		mg/L	1	08/25/2019 12:31
		Method: EPA 350.1 Rev 2.0				Analyst: EF		
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0				Prep Date/Time: 08/25/2019 15:00		
Nitrogen, Ammonia (As N)	di	A	ND	0.10		mg/L	1	08/25/2019 16:34

Analytical Results

Date: *Sunday, August 25, 2019*

Client:	Arcelor Mittal USA, Inc.	Work Order/ID:	19H1551-24
Client Project:	NPDES Excursion	Sampled:	08/24/2019 17:39
Client Sample ID:	SL-8	Received:	08/25/2019 10:00
Sample Description:			
Matrix:	Aqueous		

Analyses	Certs	AT	Result	RL	Qual	Units	DF	Analyzed
		Method: SM 4500-CN C/E-1999				Analyst: EF		
Total Cyanide		Prep Method: NA				Prep Date/Time: 08/25/2019 14:35		
Cyanide, Total	dij	A	ND	0.0050		mg/L	1	08/25/2019 16:49
		Method: SW-846 9014				Analyst: lachat4		
Free Cyanide		Prep Method: SW-846 9014				Prep Date/Time: 08/25/2019 10:07		
Free Cyanide		A	ND	0.0050		mg/L	1	08/25/2019 12:43
		Method: EPA 350.1 Rev 2.0				Analyst: EF		
Nitrogen, Ammonia as N		Prep Method: EPA 350.1 Rev 2.0				Prep Date/Time: 08/25/2019 15:00		
Nitrogen, Ammonia (As N)	di	A	0.10	0.10		mg/L	1	08/25/2019 16:36

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

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)**RL:** Reporting Limit**RPD:** Relative Percent Difference

Cooler Receipt Log

Cooler ID: Default Cooler

Temp: °C
The logo for Microbac Laboratories, Inc. features a stylized blue hexagonal icon to the left of the word "MICROBAC" in a bold, grey, sans-serif font, with a registered trademark symbol (®) to the right.

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 **152303**

Instructions on back

Lab Report Address

Client Name: **AMBH**

Address:

City, State, Zip:

Contact:

Telephone No.:

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

Project: **Receivables Water Monitoring**

PO No.:

Compliance Monitoring? Yes No
 Agency/Program

Sampler Signature: *[Signature]* Sampler Phone No.: **219-644-7585**

* 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

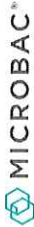
Client Sample ID	Date Collected	Time Collected	No. of Containers	Matrix	Grab / Comp	Preservative Types **	PH	Temp (Field)	PH (Field)	Temp (Field)	Additional Notes
9	8/24/19	9:41	3	AW	9	4,2,4	X	X	7.52	5.2	19H1551
10		9:50							7.70	5.4	01
11		9:58							7.66	5.8	02
12		10:06							7.71	5.5	03
8		10:20							7.80	6.1	04
7		10:33							7.99	7.9	0.05
6		10:42							7.56	5.4	0.07
5		10:55							7.64	5.6	0.08
4		11:02							7.77	5.4	0.09
									7.78	6.0	0.10

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

Comments: **when collected OUTER HARBOR SAMPLE 13 NOT TAKEN DUE TO HIGH WAVES DANGEROUS CONDITIONS**

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
<i>[Signature]</i>	8/24/19 13:55	<i>[Signature]</i>	8/25/19 0815
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
<i>[Signature]</i>	8/25/19 0900	<i>[Signature]</i>	
Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
<i>[Signature]</i>		<i>[Signature]</i>	8/25/19 0900

CHAIN OF CUSTODY RECORD



Number **152299**

Instructions on back

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

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:
 Address:
 City, State, Zip:
 Contact:
 Telephone No.:

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

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

Project: **Receivables Water Monitoring** Location: PO No.:
 Sampler Signature: *Patricia Coleman* Sampler Phone No.: **214-644-7585**

Sampled by (PRINT): **Patricia Coleman**
 * 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 **	CAI (Total)	CAI (Free)	Temp (Field)	PH (Field)	DO (Field)	Additional Notes
	3	8/24/19	11:10	3	AQ	G	U, 2, 4	X	X	22.8	7.25	6.9	194/551
	2		11:15							22.9	7.75	6.5	7.6
	1		11:25							23.8	7.81	6.5	194/551
	05001		11:36							24.8	7.81	6.7	7.3
	Prostate Machine East		12:29							25.1	7.67	7.7	7.4

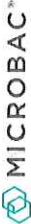
Possible Hazard Identification Hazardous Non-Hazardous Radioactive
 Sample Disposition Dispose as appropriate Return Archive

Comments: *When Collected Time PH Temp DO*

Relinquished By (signature) *Patricia Coleman* Date/Time *8/24/19 13:55*
 Relinquished By (signature) *Patricia Coleman* Date/Time *8/25/19 0900*
 Relinquished By (signature) *Patricia Coleman* Date/Time *8/25/19 0900*

Received By (signature) *Patricia Coleman* Date/Time *8/25/19 0815*
 Received By (signature) *Patricia Coleman* Date/Time *8/25/19 0815*
 Received By (signature) *Patricia Coleman* Date/Time *8/25/19 0900*

CHAIN OF CUSTODY RECORD



Number **152298**

Instructions on back

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

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:
 Address:
 City, State, Zip:
 Contact:
 Telephone No.:

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

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

Project: **Receivables Water Materials**
 Location:
 PO No.:
 Sampler Signature: *[Signature]*
 Sampler Phone No.: **219-644-7585**

Sampled by (PRINT): **PATRICK GORMAN**
 * 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 **	Cal (thc)	Cal (PTE)	Temp (Hold)	pH (Hold)	D.O. (Hold)	Additional Notes
	000	8/24/19	14:28	3	AW	S	U, 2, 4	X	X	25.0	7.60	6.6	1941551
	5L-1		15:10							25.0	7.83	7.0	T-15
	5L-2		15:30							25.0	7.91	7.8	T-15
	5L-3		15:43							25.0	8.00	7.2	T-18
	5L-4		15:54							23.4	8.02	7.0	T-19
	5L-5		16:06							23.2	7.92	6.9	T-20
	5L-6		16:43							23.3	8.09	7.0	T-21
	5L-7		16:52							23.1	8.08	7.6	T-22
	5L-8		17:39							22.9	8.03	5.3	T-23

Possible Hazard Identification: Hazardous Non-Hazardous Radioactive

Sample Disposition: Dispose as appropriate Return Archive

Comments: **When Collected**

Relinquished By (signature)	Date/Time	Received By (signature)	Date/Time
<i>[Signature]</i>	8/24/19 18:21	<i>[Signature]</i>	8/29/19 08:15
<i>[Signature]</i>	8/25/19 09:00	<i>[Signature]</i>	
<i>[Signature]</i>		<i>[Signature]</i>	8/25/19 09:00