



09-Sep-2019

Robert Macial
ArcelorMittal USA LLC
Gary Plate Processing
One North Buchanan Street
Gary, IN 46402

Re: **Arcelor Mittal - Burns Harbor E.R.**

Work Order: **19090289**

Dear Robert,

ALS Environmental received 25 samples on 05-Sep-2019 for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 43.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA
PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

A handwritten signature in black ink that reads "Amanda Grzybowski".

Electronically approved by: Amanda Grzybowski

Amanda Grzybowski
Project Manager

Report of Laboratory Analysis

Certificate No: IN: C-MI-08

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental 

www.alsglobal.com

RIGHT SOLUTIONS RIGHT PARTNER

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Work Order: 19090289

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
19090289-01	15	Aqueous		9/5/2019 08:39	9/5/2019 16:00	<input type="checkbox"/>
19090289-01	15	Aqueous		9/5/2019 08:39	9/6/2019 13:30	<input type="checkbox"/>
19090289-02	14	Aqueous		9/5/2019 08:51	9/5/2019 16:00	<input type="checkbox"/>
19090289-02	14	Aqueous		9/5/2019 08:51	9/6/2019 13:30	<input type="checkbox"/>
19090289-03	7	Aqueous		9/5/2019 09:06	9/5/2019 16:00	<input type="checkbox"/>
19090289-03	7	Aqueous		9/5/2019 09:06	9/6/2019 13:30	<input type="checkbox"/>
19090289-04	6	Aqueous		9/5/2019 09:18	9/5/2019 16:00	<input type="checkbox"/>
19090289-04	6	Aqueous		9/5/2019 09:18	9/6/2019 13:30	<input type="checkbox"/>
19090289-05	5	Aqueous		9/5/2019 09:29	9/5/2019 16:00	<input type="checkbox"/>
19090289-05	5	Aqueous		9/5/2019 09:29	9/6/2019 13:30	<input type="checkbox"/>
19090289-06	4	Aqueous		9/5/2019 09:43	9/5/2019 16:00	<input type="checkbox"/>
19090289-06	4	Aqueous		9/5/2019 09:43	9/6/2019 13:30	<input type="checkbox"/>
19090289-07	3	Aqueous		9/5/2019 09:57	9/5/2019 16:00	<input type="checkbox"/>
19090289-07	3	Aqueous		9/5/2019 09:57	9/6/2019 13:30	<input type="checkbox"/>
19090289-08	2	Aqueous		9/5/2019 10:13	9/5/2019 16:00	<input type="checkbox"/>
19090289-08	2	Aqueous		9/5/2019 10:13	9/6/2019 13:30	<input type="checkbox"/>
19090289-09	1	Aqueous		9/5/2019 10:21	9/5/2019 16:00	<input type="checkbox"/>
19090289-09	1	Aqueous		9/5/2019 10:21	9/6/2019 13:30	<input type="checkbox"/>
19090289-10	OF001	Aqueous		9/5/2019 10:42	9/5/2019 16:00	<input type="checkbox"/>
19090289-10	OF001	Aqueous		9/5/2019 10:42	9/6/2019 13:30	<input type="checkbox"/>
19090289-11	8	Aqueous		9/5/2019 11:10	9/5/2019 16:00	<input type="checkbox"/>
19090289-11	8	Aqueous		9/5/2019 11:10	9/6/2019 13:30	<input type="checkbox"/>
19090289-12	9	Aqueous		9/5/2019 11:22	9/5/2019 16:00	<input type="checkbox"/>
19090289-12	9	Aqueous		9/5/2019 11:22	9/6/2019 13:30	<input type="checkbox"/>
19090289-13	10	Aqueous		9/5/2019 11:31	9/5/2019 16:00	<input type="checkbox"/>
19090289-13	10	Aqueous		9/5/2019 11:31	9/6/2019 13:30	<input type="checkbox"/>
19090289-14	11	Aqueous		9/5/2019 11:40	9/5/2019 16:00	<input type="checkbox"/>
19090289-14	11	Aqueous		9/5/2019 11:40	9/6/2019 13:30	<input type="checkbox"/>
19090289-15	12	Aqueous		9/5/2019 11:51	9/5/2019 16:00	<input type="checkbox"/>
19090289-15	12	Aqueous		9/5/2019 11:51	9/6/2019 13:30	<input type="checkbox"/>
19090289-16	13	Aqueous		9/5/2019 12:09	9/5/2019 16:00	<input type="checkbox"/>
19090289-16	13	Aqueous		9/5/2019 12:09	9/6/2019 13:30	<input type="checkbox"/>
19090289-17	SL-1	Aqueous		9/5/2019 12:20	9/5/2019 16:00	<input type="checkbox"/>
19090289-17	SL-1	Aqueous		9/5/2019 12:20	9/6/2019 13:30	<input type="checkbox"/>
19090289-18	SL-2	Aqueous		9/5/2019 12:33	9/5/2019 16:00	<input type="checkbox"/>
19090289-18	SL-2	Aqueous		9/5/2019 12:33	9/6/2019 13:30	<input type="checkbox"/>
19090289-19	SL-3	Aqueous		9/5/2019 12:46	9/5/2019 16:00	<input type="checkbox"/>
19090289-19	SL-3	Aqueous		9/5/2019 12:46	9/6/2019 13:30	<input type="checkbox"/>
19090289-20	SL-4	Aqueous		9/5/2019 13:01	9/5/2019 16:00	<input type="checkbox"/>

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Work Order: 19090289

Work Order Sample Summary

<u>Lab Samp ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Tag Number</u>	<u>Collection Date</u>	<u>Date Received</u>	<u>Hold</u>
19090289-20	SL-4	Aqueous		9/5/2019 13:01	9/6/2019 13:30	<input type="checkbox"/>
19090289-21	SL-5	Aqueous		9/5/2019 13:09	9/5/2019 16:00	<input type="checkbox"/>
19090289-21	SL-5	Aqueous		9/5/2019 13:09	9/6/2019 13:30	<input type="checkbox"/>
19090289-22	SL-6	Aqueous		9/5/2019 13:32	9/5/2019 16:00	<input type="checkbox"/>
19090289-22	SL-6	Aqueous		9/5/2019 13:32	9/6/2019 13:30	<input type="checkbox"/>
19090289-23	SL-7	Aqueous		9/5/2019 14:00	9/5/2019 16:00	<input type="checkbox"/>
19090289-23	SL-7	Aqueous		9/5/2019 14:00	9/6/2019 13:30	<input type="checkbox"/>
19090289-24	SL-8	Aqueous		9/5/2019 14:30	9/5/2019 16:00	<input type="checkbox"/>
19090289-24	SL-8	Aqueous		9/5/2019 14:30	9/6/2019 13:30	<input type="checkbox"/>
19090289-25	000	Aqueous		9/5/2019 15:07	9/5/2019 16:00	<input type="checkbox"/>
19090289-25	000	Aqueous		9/5/2019 15:07	9/6/2019 13:30	<input type="checkbox"/>

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Work Order: 19090289

Case Narrative

Samples in this Work Order were received and analyzed at the ALS Valparaiso facility at 2400 Cumberland Drive, Valparaiso, Indiana; under Florida NELAP certification ID# E871119.

Any Batch MS/MSD results that are flagged, but not addressed in this Case Narrative, are not related to this project's sample(s); therefore the data does not require qualification.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 15
Collection Date: 9/5/2019 08:39 AM

Work Order: 19090289
Lab ID: 19090289-01
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	6.90		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.64		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.4		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:11
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/6/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.172		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:17
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 14
Collection Date: 9/5/2019 08:51 AM

Work Order: 19090289
Lab ID: 19090289-02
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	6.80		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.65		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.7		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:13
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/6/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.116		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:18
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 7
Collection Date: 9/5/2019 09:06 AM

Work Order: 19090289
Lab ID: 19090289-03
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.00		0		mg/L	1	9/5/2019
							Analyst: ALS
							Method: A4500-O G-11
PH (FIELD)							
pH (field)	7.76		0		s.u.	1	9/5/2019
							Analyst: ALS
							Method: A4500-H B-11
TEMPERATURE (FIELD)							
Temperature (field)	21.8		0		°C	1	9/5/2019
							Analyst: ALS
							Method: A2550 B-10
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
							Analyst: JB
							Method: KELADA-01
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:14
							Analyst: CD
							Prep: A4500-CN C-11 / 9/6/19
							Method: A4500-CN E-11
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.136		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:19
							Analyst: CD
							Method: E350.1 R2.0

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 6
Collection Date: 9/5/2019 09:18 AM

Work Order: 19090289
Lab ID: 19090289-04
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.10		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.67		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.3		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:15
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/6/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.224		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:22
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 5
Collection Date: 9/5/2019 09:29 AM

Work Order: 19090289
Lab ID: 19090289-05
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	6.90		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.71		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.3		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:16
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/6/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.234		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:28
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 4
Collection Date: 9/5/2019 09:43 AM

Work Order: 19090289
Lab ID: 19090289-06
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.10		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.71		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.4		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	0.00208	J	0.00200	0.00500	mg/L	1	9/7/2019 13:17
				Method: A4500-CN E-11		Prep: A4500-CN C-11 / 9/6/19	Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.233		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:29
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 3
Collection Date: 9/5/2019 09:57 AM

Work Order: 19090289
Lab ID: 19090289-07
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.60		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.82		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.3		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:18
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/6/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.227		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:30
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 2
Collection Date: 9/5/2019 10:13 AM

Work Order: 19090289
Lab ID: 19090289-08
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.40		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.75		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	22.3		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD		U	0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	0.00220	J	0.00200	0.00500	mg/L	1	9/7/2019 13:19
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/6/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.286		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:31
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 1
Collection Date: 9/5/2019 10:21 AM

Work Order: 19090289
Lab ID: 19090289-09
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	6.90		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.68		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	22.8		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	0.00221	J	0.00200	0.00500	mg/L	1	9/7/2019 13:20
				Method: A4500-CN E-11		Prep: A4500-CN C-11 / 9/6/19	Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.328		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:33
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: OF001
Collection Date: 9/5/2019 10:42 AM

Work Order: 19090289
Lab ID: 19090289-10
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.10		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.74		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	22.9		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	0.00218	J	0.00200	0.00500	mg/L	1	9/7/2019 13:24
				Method: A4500-CN E-11		Prep: A4500-CN C-11 / 9/6/19	Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.340		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:34
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 8
Collection Date: 9/5/2019 11:10 AM

Work Order: 19090289
Lab ID: 19090289-11
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.20		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.63		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.2		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:25
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/6/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.199		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:37
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 9
Collection Date: 9/5/2019 11:22 AM

Work Order: 19090289
Lab ID: 19090289-12
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.30		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.68		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.2		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:26
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/6/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.202		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:39
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 10
Collection Date: 9/5/2019 11:31 AM

Work Order: 19090289
Lab ID: 19090289-13
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.00		0		mg/L	1	9/5/2019
PH (FIELD)							
pH (field)	7.73		0		s.u.	1	9/5/2019
TEMPERATURE (FIELD)							
Temperature (field)	21.3		0		°C	1	9/5/2019
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:27
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.207		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:42

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 11
Collection Date: 9/5/2019 11:40 AM

Work Order: 19090289
Lab ID: 19090289-14
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	6.90		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.76		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	22.4		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:28
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/6/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.115		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:44
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 12
Collection Date: 9/5/2019 11:51 AM

Work Order: 19090289
Lab ID: 19090289-15
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.10		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.73		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.6		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:29
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/6/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.126		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:45
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 13
Collection Date: 9/5/2019 12:09 PM

Work Order: 19090289
Lab ID: 19090289-16
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.10		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.77		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	21.1		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:34
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/7/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.105		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:46
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-1
Collection Date: 9/5/2019 12:20 PM

Work Order: 19090289
Lab ID: 19090289-17
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.30		0		mg/L	1	9/5/2019
							Analyst: ALS
							Method: A4500-O G-11
PH (FIELD)							
pH (field)	7.94		0		s.u.	1	9/5/2019
							Analyst: ALS
							Method: A4500-H B-11
TEMPERATURE (FIELD)							
Temperature (field)	19.4		0		°C	1	9/5/2019
							Analyst: ALS
							Method: A2550 B-10
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
							Analyst: JB
							Method: KELADA-01
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:37
							Analyst: CD
							Prep: A4500-CN C-11 / 9/7/19
							Method: A4500-CN E-11
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.0347		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:47
							Analyst: CD
							Method: E350.1 R2.0

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-2
Collection Date: 9/5/2019 12:33 PM

Work Order: 19090289
Lab ID: 19090289-18
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.70		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.87		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	19.6		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:38
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/7/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.0285	J	0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:48
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-3
Collection Date: 9/5/2019 12:46 PM

Work Order: 19090289
Lab ID: 19090289-19
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							Analyst: ALS
Dissolved Oxygen (field)	7.20		0		mg/L	1	9/5/2019
PH (FIELD)							Analyst: ALS
pH (field)	7.94		0		s.u.	1	9/5/2019
TEMPERATURE (FIELD)							Analyst: ALS
Temperature (field)	19.2		0		°C	1	9/5/2019
CYANIDE, WEAK ACID DISSOCIABLE							Analyst: JB
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
CYANIDE, TOTAL							Analyst: CD
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:40
AMMONIA AS NITROGEN							Analyst: CD
Ammonia as Nitrogen	0.0273	J	0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:50

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-4
Collection Date: 9/5/2019 01:01 PM

Work Order: 19090289
Lab ID: 19090289-20
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.50		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	8.10		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	18.6		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:41
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/7/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	U		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:21
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-5
Collection Date: 9/5/2019 01:09 PM

Work Order: 19090289
Lab ID: 19090289-21
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.30		0		mg/L	1	9/5/2019
							Analyst: ALS
							Method: A4500-O G-11
PH (FIELD)							
pH (field)	8.02		0		s.u.	1	9/5/2019
							Analyst: ALS
							Method: A4500-H B-11
TEMPERATURE (FIELD)							
Temperature (field)	18.7		0		°C	1	9/5/2019
							Analyst: ALS
							Method: A2550 B-10
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
							Analyst: JB
							Method: KELADA-01
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:42
							Analyst: CD
							Prep: A4500-CN C-11 / 9/7/19
							Method: A4500-CN E-11
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.0136	J	0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:53
							Analyst: CD
							Method: E350.1 R2.0

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-6
Collection Date: 9/5/2019 01:32 PM

Work Order: 19090289
Lab ID: 19090289-22
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.10		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	8.01		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	18.9		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:43
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/7/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	U		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 15:57
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-7
Collection Date: 9/5/2019 02:00 PM

Work Order: 19090289
Lab ID: 19090289-23
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	7.20		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	8.04		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	18.8		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:44
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/7/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	U		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 16:00
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: SL-8
Collection Date: 9/5/2019 02:30 PM

Work Order: 19090289
Lab ID: 19090289-24
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	6.80		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	8.05		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	18.6		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:45
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/7/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	U		0.00980	0.0320	mg NH3-N/L	1	9/6/2019 16:02
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group, USA

Date: 09-Sep-19

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
Sample ID: 000
Collection Date: 9/5/2019 03:07 PM

Work Order: 19090289
Lab ID: 19090289-25
Matrix: AQUEOUS

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
DISSOLVED OXYGEN (FIELD)							
Dissolved Oxygen (field)	8.00		0		mg/L	1	9/5/2019
				Method: A4500-O G-11			Analyst: ALS
PH (FIELD)							
pH (field)	7.83		0		s.u.	1	9/5/2019
				Method: A4500-H B-11			Analyst: ALS
TEMPERATURE (FIELD)							
Temperature (field)	20.8		0		°C	1	9/5/2019
				Method: A2550 B-10			Analyst: ALS
CYANIDE, WEAK ACID DISSOCIABLE							
Cyanide, WAD	U		0.0011	0.0050	mg/L	1	9/8/2019 14:14
				Method: KELADA-01			Analyst: JB
CYANIDE, TOTAL							
Cyanide, Total	U		0.00200	0.00500	mg/L	1	9/7/2019 13:46
				Method: A4500-CN E-11	Prep: A4500-CN C-11 / 9/7/19		Analyst: CD
AMMONIA AS NITROGEN							
Ammonia as Nitrogen	0.0159	J	0.00980	0.0320	mg NH3-N/L	1	9/6/2019 16:05
				Method: E350.1 R2.0			Analyst: CD

Note: See Qualifiers page for a list of qualifiers and their definitions.

Client: ArcelorMittal USA LLC
Project: Arcelor Mittal - Burns Harbor E.R.
WorkOrder: 19090289

**QUALIFIERS,
ACRONYMS, UNITS**

<u>Qualifier</u>	<u>Description</u>
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.

<u>Acronym</u>	<u>Description</u>
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

<u>Units Reported</u>	<u>Description</u>
°C	Degrees Celcius
mg NH3-N/L	Milligrams Ammonia-Nitrogen per Liter
mg/L	Milligrams per Liter
s.u.	Standard Units

Client: ArcelorMittal USA LLC

QC BATCH REPORT

Work Order: 19090289

Project: Arcelor Mittal - Burns Harbor E.R.

Batch ID: **R270022a** Instrument ID **SKALAR1** Method: **Kelada-01**

MBLK	Sample ID: MB-R270022-R270022a				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM			
Client ID:	Run ID: SKALAR1_190908A			SeqNo: 5901442		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD U 0.0050

LCS	Sample ID: LCS-R270022-R270022a				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM			
Client ID:	Run ID: SKALAR1_190908A			SeqNo: 5901443		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1044 0.0050 0.1 0 104 90-110 0

MS	Sample ID: 19090289-02C MS				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM			
Client ID: 14	Run ID: SKALAR1_190908A			SeqNo: 5901446		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1003 0.0050 0.1 -0.00063 101 90-110 0

MS	Sample ID: 19090289-13C MS				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM			
Client ID: 10	Run ID: SKALAR1_190908A			SeqNo: 5901463		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1006 0.0050 0.1 -0.00043 101 90-110 0

MSD	Sample ID: 19090289-02C MSD				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM			
Client ID: 14	Run ID: SKALAR1_190908A			SeqNo: 5901447		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.101 0.0050 0.1 -0.00063 102 90-110 0.1003 0.725 20

MSD	Sample ID: 19090289-13C MSD				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM			
Client ID: 10	Run ID: SKALAR1_190908A			SeqNo: 5901464		Prep Date:		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1026 0.0050 0.1 -0.00043 103 90-110 0.1006 1.92 20

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
Work Order: 19090289
Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R270022a** Instrument ID **SKALAR1** Method: **Kelada-01**

The following samples were analyzed in this batch:

19090289-01C	19090289-02C	19090289-03C
19090289-04C	19090289-05C	19090289-06C
19090289-07C	19090289-08C	19090289-09C
19090289-10C	19090289-11C	19090289-12C
19090289-13C	19090289-14C	19090289-15C
19090289-16C	19090289-17C	19090289-18C
19090289-19C	19090289-20C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
 Work Order: 19090289
 Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R270022b** Instrument ID **SKALAR1** Method: **Kelada-01**

MBLK		Sample ID: MB-R270022-R270022b				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM		
Client ID:		Run ID: SKALAR1_190908A				SeqNo: 5901474		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD U 0.0050

LCS		Sample ID: LCS-R270022-R270022b				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM		
Client ID:		Run ID: SKALAR1_190908A				SeqNo: 5901475		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1027 0.0050 0.1 0 103 90-110 0

MS		Sample ID: 19090289-21C MS				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM		
Client ID: SL-5		Run ID: SKALAR1_190908A				SeqNo: 5901477		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1023 0.0050 0.1 -0.00134 104 90-110 0

MS		Sample ID: 19090376-05C MS				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM		
Client ID:		Run ID: SKALAR1_190908A				SeqNo: 5901490		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1016 0.0050 0.1 -0.00092 103 90-110 0

MSD		Sample ID: 19090289-21C MSD				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM		
Client ID: SL-5		Run ID: SKALAR1_190908A				SeqNo: 5901478		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1047 0.0050 0.1 -0.00134 106 90-110 0.1023 2.28 20

MSD		Sample ID: 19090376-05C MSD				Units: mg/L		Analysis Date: 9/8/2019 02:14 PM		
Client ID:		Run ID: SKALAR1_190908A				SeqNo: 5901491		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, WAD 0.1024 0.0050 0.1 -0.00092 103 90-110 0.1016 0.716 20

The following samples were analyzed in this batch:

19090289-21C	19090289-22C	19090289-23C
19090289-24C	19090289-25C	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
Work Order: 19090289
Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **142092** Instrument ID **VAL-LACHAT** Method: **A4500-CN E-11**

MBLK	Sample ID: MBLK-142092-142092				Units: mg/L		Analysis Date: 9/7/2019 01:00 PM			
Client ID:	Run ID: VAL-LACHAT_190907B			SeqNo: 5900633		Prep Date: 9/6/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total U 0.0050

LCS	Sample ID: LCS-142092-142092				Units: mg/L		Analysis Date: 9/7/2019 01:01 PM			
Client ID:	Run ID: VAL-LACHAT_190907B			SeqNo: 5900634		Prep Date: 9/6/2019		DF: 1		
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Cyanide, Total 0.1045 0.0050 0.1 0 104 90-110 0

The following samples were analyzed in this batch:

19090289-01B	19090289-02B	19090289-03B
19090289-04B	19090289-05B	19090289-06B
19090289-07B	19090289-08B	19090289-09B
19090289-10B	19090289-11B	19090289-12B
19090289-13B	19090289-14B	19090289-15B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
Work Order: 19090289
Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **142093** Instrument ID **VAL-LACHAT** Method: **A4500-CN E-11**

MBLK		Sample ID: MBLK-142093-142093				Units: mg/L		Analysis Date: 9/7/2019 01:31 PM		
Client ID:		Run ID: VAL-LACHAT_190907B				SeqNo: 5900660		Prep Date: 9/7/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	U	0.0050								

LCS		Sample ID: LCS-142093-142093				Units: mg/L		Analysis Date: 9/7/2019 01:32 PM		
Client ID:		Run ID: VAL-LACHAT_190907B				SeqNo: 5900661		Prep Date: 9/7/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	0.1065	0.0050	0.1	0	106	90-110	0			

LCSD		Sample ID: LCSD-142093-142093				Units: mg/L		Analysis Date: 9/7/2019 01:33 PM		
Client ID:		Run ID: VAL-LACHAT_190907B				SeqNo: 5900662		Prep Date: 9/7/2019		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Cyanide, Total	0.0995	0.0050	0.1	0	99.5	90-110	0			

The following samples were analyzed in this batch:

19090289-16B	19090289-17B	19090289-18B
19090289-19B	19090289-20B	19090289-21B
19090289-22B	19090289-23B	19090289-24B
19090289-25B		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
 Work Order: 19090289
 Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R269988** Instrument ID **VAL-LACHAT** Method: **E350.1 R2.0**

MBLK	Sample ID: MBLK-R269988		Units: mg NH3-N/L		Analysis Date: 9/6/2019 03:15 PM					
Client ID:	Run ID: VAL-LACHAT_190906B		SeqNo: 5900181		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen U 0.032

MBLK	Sample ID: MBLK-R269988		Units: mg NH3-N/L		Analysis Date: 9/6/2019 03:51 PM					
Client ID:	Run ID: VAL-LACHAT_190906B		SeqNo: 5900211		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen U 0.032

MBLK	Sample ID: MBLK-R269988		Units: mg NH3-N/L		Analysis Date: 9/6/2019 04:29 PM					
Client ID:	Run ID: VAL-LACHAT_190906B		SeqNo: 5900243		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen U 0.032

LCS	Sample ID: LCS-R269988		Units: mg NH3-N/L		Analysis Date: 9/6/2019 03:16 PM					
Client ID:	Run ID: VAL-LACHAT_190906B		SeqNo: 5900182		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.391 0.032 0.4 0 97.8 90-110 0

LCS	Sample ID: LCS-R269988		Units: mg NH3-N/L		Analysis Date: 9/6/2019 03:52 PM					
Client ID:	Run ID: VAL-LACHAT_190906B		SeqNo: 5900212		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.389 0.032 0.4 0 97.2 90-110 0

LCS	Sample ID: LCS-R269988		Units: mg NH3-N/L		Analysis Date: 9/6/2019 04:31 PM					
Client ID:	Run ID: VAL-LACHAT_190906B		SeqNo: 5900244		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.402 0.032 0.4 0 100 90-110 0

MS	Sample ID: 19090289-04A MS		Units: mg NH3-N/L		Analysis Date: 9/6/2019 03:23 PM					
Client ID: 6	Run ID: VAL-LACHAT_190906B		SeqNo: 5900188		Prep Date: DF: 1					
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.408 0.032 0.2 0.224 92 90-110 0

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
 Work Order: 19090289
 Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R269988** Instrument ID **VAL-LACHAT** Method: **E350.1 R2.0**

MS		Sample ID: 19090289-10A MS				Units: mg NH3-N/L		Analysis Date: 9/6/2019 03:35 PM		
Client ID: OF001		Run ID: VAL-LACHAT_190906B				SeqNo: 5900198		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.533 0.032 0.2 0.34 96.5 90-110 0

MS		Sample ID: 19090289-22A MS				Units: mg NH3-N/L		Analysis Date: 9/6/2019 03:58 PM		
Client ID: SL-6		Run ID: VAL-LACHAT_190906B				SeqNo: 5900217		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.192 0.032 0.2 0.00639 92.8 90-110 0

MS		Sample ID: 19090289-24A MS				Units: mg NH3-N/L		Analysis Date: 9/6/2019 04:03 PM		
Client ID: SL-8		Run ID: VAL-LACHAT_190906B				SeqNo: 5900221		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.201 0.032 0.2 0.00671 97.1 90-110 0

MS		Sample ID: 19090289-25A MS				Units: mg NH3-N/L		Analysis Date: 9/6/2019 04:06 PM		
Client ID: 000		Run ID: VAL-LACHAT_190906B				SeqNo: 5900224		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.194 0.032 0.2 0.0159 89 90-110 0 S

MSD		Sample ID: 19090289-04A MSD				Units: mg NH3-N/L		Analysis Date: 9/6/2019 03:24 PM		
Client ID: 6		Run ID: VAL-LACHAT_190906B				SeqNo: 5900189		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.41 0.032 0.2 0.224 93 90-110 0.408 0.489 20

MSD		Sample ID: 19090289-10A MSD				Units: mg NH3-N/L		Analysis Date: 9/6/2019 03:36 PM		
Client ID: OF001		Run ID: VAL-LACHAT_190906B				SeqNo: 5900199		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.533 0.032 0.2 0.34 96.5 90-110 0.533 0 20

MSD		Sample ID: 19090289-22A MSD				Units: mg NH3-N/L		Analysis Date: 9/6/2019 03:59 PM		
Client ID: SL-6		Run ID: VAL-LACHAT_190906B				SeqNo: 5900218		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual

Ammonia as Nitrogen 0.199 0.032 0.2 0.00639 96.3 90-110 0.192 3.58 20

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: ArcelorMittal USA LLC
 Work Order: 19090289
 Project: Arcelor Mittal - Burns Harbor E.R.

QC BATCH REPORT

Batch ID: **R269988** Instrument ID **VAL-LACHAT** Method: **E350.1 R2.0**

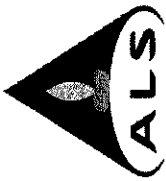
MSD		Sample ID: 19090289-24A MSD				Units: mg NH3-N/L		Analysis Date: 9/6/2019 04:04 PM		
Client ID: SL-8		Run ID: VAL-LACHAT_190906B				SeqNo: 5900222		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ammonia as Nitrogen	0.199	0.032	0.2	0.00671	96.1	90-110	0.201	1	20	

MSD		Sample ID: 19090289-25A MSD				Units: mg NH3-N/L		Analysis Date: 9/6/2019 04:08 PM		
Client ID: 000		Run ID: VAL-LACHAT_190906B				SeqNo: 5900225		Prep Date:		DF: 1
Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Ammonia as Nitrogen	0.19	0.032	0.2	0.0159	87	90-110	0.194	2.08	20	S

The following samples were analyzed in this batch:

19090289-01A	19090289-02A	19090289-03A
19090289-04A	19090289-05A	19090289-06A
19090289-07A	19090289-08A	19090289-09A
19090289-10A	19090289-11A	19090289-12A
19090289-13A	19090289-14A	19090289-15A
19090289-16A	19090289-17A	19090289-18A
19090289-19A	19090289-20A	19090289-21A
19090289-22A	19090289-23A	19090289-24A
19090289-25A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.



ALS Environmental
 3352 128th Avenue
 Holland, Michigan 49424
 (Tel) 616.399.6070
 (Fax) 616.399.6185

Chain of Custody Form

Page 1 of 3

Client Information		Project Information		ALS Project Manager:		ALS Work Order #:									
Purchase Order		Project Name	Receiving Water Monitoring	Amanda Gryzbowski	19090289	Parameter/Method Request for Analysis									
Work Order		Project Number													
Company Name	ArcelorMittal (Burns Harbor)	Company Name	ArcelorMittal (Burns Harbor)												
Send Report To		Invoice Attn.	Accounts Payable												
Address	250 US 12	Address	250 US 12												
City/State/Zip	Burns Harbor, IN 46304	City/State/Zip	Burns Harbor, IN 46304												
Phone	(219) 787-2120	Phone	(219) 787-2120												
Fax		Fax													
e-Mail Address															
No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	pH	Temp. °C	DO
1		9/5/19	8:39	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.64	21.4	6.9
2			8:51	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.65	21.7	6.8
3			9:06	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.76	21.8	7.0
4			9:18	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.67	21.3	7.1
5			9:29	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.71	21.3	6.9
6			9:43	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.71	21.4	7.1
7			9:57	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.82	21.3	7.6
8			10:13	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.75	22.3	7.4
9			10:21	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.68	22.8	6.9
10	OFOO1		10:42	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.74	22.9	7.1
Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		Results Due Date:									
				<input type="checkbox"/> STD 10 Wk Days <input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour <input type="checkbox"/> Other											
Relinquished by:	Date: 9/5/19	Time: 1510	Received by:	Notes: Rec'd 9/6/19 1330 Q 7 SL											
Relinquished by:	Date: 9/5/19	Time: 1600	Received by (Laboratory):	QC Package: (Check Box Below)											
Relinquished by:	Date:	Time:	Checked by (Laboratory):	Level II: Standard QC											
Relinquished by:	Date:	Time:	Checked by (Laboratory):	Level III: Standard QC + Raw Data											
Relinquished by:	Date:	Time:	Checked by (Laboratory):	Level IV: SW846 Methods/CLP											
Relinquished by:	Date:	Time:	Checked by (Laboratory):	Other:											
Relinquished by:	Date:	Time:	Checked by (Laboratory):	Cooler Temp: 2.3											

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS

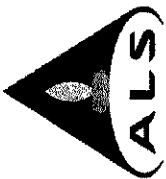
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HN 322

ALS Environmental
3352 128th Avenue
Holland, Michigan 49424
(Tel) 616.399.6070
(Fax) 616.399.6185

Chain of Custody Form

Page 2 of 3



ALS Project Manager: Amanda Gryzbowski		ALS Work Order #: 19090289	
Project Information		Parameter/Method Request for Analysis	
Purchase Order	Project Name	A Ammonia	
Work Order	Project Number	B Total Cyanide	
Company Name	Company Name	C Free Cyanide	
Send Report To	Invoice Attn.	D pH (Field)	
Address	Address	E Temperature (Field)	
City/State/Zip	City/State/Zip	F Dissolved Oxygen (Field)	
Phone	Phone		
Fax	Fax		
e-Mail Address			

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	pH	Temp. °C	DO
11		9/5/19	1110	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.63	21.2	7.2
12			1122	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.68	21.2	7.3
13			1131	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.73	21.3	7.0
14			1140	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.76	22.4	6.9
15			1151	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.73	21.6	7.1
16			1209	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.77	21.1	7.1
17	SL-1		1220	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.94	19.4	7.3
18	SL-2		1233	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.87	19.6	7.7
19	SL-3		1246	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	7.94	19.2	7.2
20	SL-4		101	Water	H ₂ SO ₄ , NaOH	2	X	X	X	X	X	X	8.1	18.6	7.5

Sampler(s): Please Print & Sign		Shipment Method:		Required Turnaround Time:		Results Due Date:	
				<input type="checkbox"/> 5 Wk Days <input type="checkbox"/> 2 Wk Days <input type="checkbox"/> 24 Hour <input type="checkbox"/> 10 Wk Days <input type="checkbox"/> Other			
Relinquished by:	Date:	Time:	Received by:	Notes:			
<i>[Signature]</i>	9/5/19	1510	<i>[Signature]</i>	Rec'd 9/16/19 1330 22QL			
Relinquished by:	Date:	Time:	Received by (Laboratory):	QC Package: (Check Box Below)			
<i>[Signature]</i>	9-5-19	1600	<i>[Signature]</i>	Level II: Standard QC Level III: Standard QC + Raw Data Level IV: SW846 Methods/CLP Other:			
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):	Cooler Temp.			
<i>[Signature]</i>			<i>[Signature]</i>	23			

Note: Any changes must be made in writing once samples and COC Form have been submitted to ALS

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HN 3.2c

Sample Receipt Checklist

Client Name: ARCELORMITTAL-BURNSHARBO

Date/Time Received: 05-Sep-19 00:00

Work Order: 19090289

Received by: CD

Checklist completed by Diane Shaw 06-Sep-19
eSignature Date

Reviewed by: Amanda Przybowski 06-Sep-19
eSignature Date

Matrices: Aqueous

Carrier name: ALSHN

Shipping container/cooler in good condition? Yes No Not Present

Custody seals intact on shipping container/cooler? Yes No Not Present

Custody seals intact on sample bottles? Yes No Not Present

Chain of custody present? Yes No

Chain of custody signed when relinquished and received? Yes No

Chain of custody agrees with sample labels? Yes No

Samples in proper container/bottle? Yes No

Sample containers intact? Yes No

Sufficient sample volume for indicated test? Yes No

All samples received within holding time? Yes No

Container/Temp Blank temperature in compliance? Yes No

Sample(s) received on ice? Yes No

Temperature(s)/Thermometer(s): 2.3

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 9/5/19 16:00

Water - VOA vials have zero headspace? Yes No No VOA vials submitted

Water - pH acceptable upon receipt? Yes No N/A

pH adjusted? Yes No N/A

pH adjusted by:

Login Notes: Holland - 3.2/3.2 c SR2

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction: