Indiana Discharge Monitoring Report Form 30530

MONTHLY MONITORING REPORT (MMR) FOR INDUSTRIAL DISCHARGE PERMITS

Revision Pending Approval - September 2003

FACILITY NAME AND ADDRESS:

U.S. Steel Corporation Midwest Plant
6300 US HWY 12
MS AE-1
Portage, IN 46368-1287

PLEASE COMPLETE AND SUBMIT ONE COPY EACH MONTH.
THIS REPORT MUST BE POSTMARKED NO LATER THAN THE 28TH OF THE FOLLOWING MONTH.

Mail To: Indiana Dept. of Environmental Management
Office of Water Quality / Data Management Section
P.O. Box 6015
Indianapolis, Indiana 46206-6015

I	N	0	0	0	0	3	3	7	3	0	4	A	0	1	1	7
PERMIT NUMBER									OUTFALL NO.				MO.		YR.	

EFFLUENT CHARACTERISTICS		Flow, In Conduit		Solids, Total Suspended		Oil & Grease		Cyanide, Total	
EFFLUENT PARAMETER NUMBER		Q50050	******	Q00530	C00530	Q00552	C00552	Q00720	C00720
SAMPLE TYPE	Permit Condition	TOTALZ	******	Comp24	Comp24	3Grab24H	3Grab24H	Grab	Grab
	Monitored	TOTALZ	******	Comp24	Comp24	3Grab24H	3Grab24H	Grab	Grab
FREQUENCY	Permit Condition	5/Week	******	5/Week	5/Week	5/Week	5/Week	5/Week	5/Week
	Monitored	Daily	******	5/Week	5/Week	5/Week	5/Week	5/Week	5/Week
EFFLUENT LIMITATIONS	Permit Minimum	******	******	******	******	******	******	******	******
	Permit Average	Report	******	1147	Report	******	******	3.41	Report
	Permit Maximum	Report	******	2290	Report	765	Report	7.95	Report
UNITS =		MGD		Lbs/day	mg/L	Lbs/day	mg/L	Lbs/day	mg/L
01		6.57							
02		6.45							
03		7.82		106.1	1.6	< 104	< 1.6	< 0.13	< 0.0020
04		8.58		124.4	1.7	< 93.1	< 1.3	< 0.14	< 0.0020
05		8.14				270	4.0	< 0.14	< 0.0020
06		8.21		131.3	1.9	< 89.1	< 1.3	< 0.14	< 0.0020
07		7.55		127.3	2.0	< 81.9	< 1.3		
08		6.71							
09		7.17							
10		8.40		217.1	3.1	< 91.1	< 1.3	< 0.14	< 0.0020
11		8.16		99.0	1.5	< 99.7	< 1.5	< 0.13	< 0.0020
12		8.81		193.1	2.6	< 95.6	< 1.3	< 0.15	< 0.0020
13		8.71		145.6	2.0	< 102	< 1.4	< 0.15	< 0.0020
14		8.59		172.0	2.4	< 103	< 1.4	< 0.14	< 0.0020
15		7.63							
16		7.36							
17		9.01		152.2	2.0	< 97.9	< 1.3	< 0.15	< 0.0020
18		9.36		126.6	1.6	< 102	< 1.3	< 0.16	< 0.0020
19		9.67		266.0	3.3	< 107	< 1.3	< 0.16	< 0.0020
20		9.58		208.7	2.6	< 120	< 1.5	< 0.17	< 0.0021
21		9.01		209.5	2.8	< 97.7	< 1.3	0.17	0.0022
22		8.43		192.4	2.7	< 91.5	< 1.3	< 0.14	< 0.0020
23		7.90		292.2	4.4	< 85.7	< 1.3	< 0.13	< 0.0020
24		8.35		232.1	3.3	< 90.6	< 1.3	< 0.14	< 0.0020
25		9.64		169.2	2.1	< 105	< 1.3	< 0.16	< 0.0020
26		8.78		154.7	2.1	< 114	< 1.6	< 0.15	< 0.0020
27		9.49						< 0.16	< 0.0020
28		9.01							
29		8.46		381.5	5.4	< 91.8	< 1.3	< 0.14	< 0.0020
30		8.41		162.5	2.3	< 91.2	< 1.3	< 0.14	< 0.0020
31		9.26		221.1	2.9	< 118	< 1.5	0.15	0.0020
MONTHLY AVERAGE		8.36		152.0	2.1	0	0	0	0
HIGHEST VALUE		9.67		381.5	5.4	270	4.0	0.17	0.0022
LOWEST VALUE		6.45		99.0	1.5	< 82	< 1.3	< 0.13	< 0.0020
NO. OF TIMES WEEKLY OR DAILY EFFL. LIMITATIONS EXCEEDED		0		0	0	0	0	0	0

Highlighted daily values are <LOQ & >= LOD, and are not quantifiable.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Mark Henry
(SIGNATURE OF CERTIFIED OPERATOR)
Mark Henry
219.763.5869
PHONE NUMBER

2/21/2017
DATE
WW020376
CERTIFICATION NO.

Joseph E. Hanning
(SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER)
Joseph E. Hanning, Manager Environmental Control

2/21/2017
DATE

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I	N	0	0	0	0	3	3	7	3	0	4	A	0	1	1	7
PERMIT NUMBER									OUTFALL NO.				MO.		YR.	

EFFLUENT CHARACTERISTICS		Fluoride, Total		Nickel, Total Recov.		Silver, Total Recov.		Zinc, Total Recov.	
EFFLUENT PARAMETER NUMBER		Q00951	C00951	Q01074	C01074	Q01079	C01079	Q01094	C01094
SAMPLE TYPE	Permit Condition	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24
	Monitored	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24
FREQUENCY	Permit Condition	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	5/Week	5/Week
	Monitored	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly	5/Week	5/Week
EFFLUENT LIMITATIONS	Permit Minimum	******	******	******	******	******	******	******	******
	Permit Average	150	Report	Report	Report	Report	Report	10.0	Report
	Permit Maximum	400	Report	Report	Report	Report	Report	30.0	Report
UNITS =		Lbs/day	mg/L	Lbs/day	mg/L	Lbs/day	mg/L	Lbs/day	mg/L
01									
02									
03								1.12	0.017
04		22.103	0.31	0.161	0.0022	< 0.01	< 0.000070	1.01	0.014
05									
06								1.11	0.016
07								0.76	0.012
08									
09									
10								1.19	0.017
11								0.46	0.0067
12								1.05	0.014
13								0.89	0.012
14								0.74	0.010
15									
16									
17								0.77	0.010
18								0.68	0.009
19								1.06	0.013
20								0.9	0.011
21								0.99	0.013
22								0.71	0.010
23								0.8	0.012
24								0.7	0.010
25								0.82	0.010
26								0.82	0.011
27									
28									
29								0.86	0.012
30								1.06	0.015
31								1.01	0.013
MONTHLY AVERAGE		22.10	0.31	0.16	0.0022	0	0	0.83	0.011
HIGHEST VALUE		22.10	0.31	0.16	0.0022	< 0.01	< 0.000070	1.19	0.017
LOWEST VALUE		22.10	0.31	0.16	0.0022	< 0.01	< 0.000070	0.46	0.0067
NO. OF TIMES WEEKLY OR DAILY EFFL. LIMITATIONS EXCEEDED		0	0	0	0	0	0	0	0

Highlighted daily values are <LOQ & >= LOD, and are not quantifiable.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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I	N	0	0	0	0	3	3	7	3	0	4	A	0	1	1	7
PERMIT NUMBER									OUTFALL NO.				MO.		YR.	

EFFLUENT CHARACTERISTICS		Cadmium, Total Recov.		Lead, Total Recov.		Chromium, Total Recov.		Copper, Total Recov.	
EFFLUENT PARAMETER NUMBER		Q01113	C01113	Q01114	C01114	Q01118	C01118	Q01119	C01119
SAMPLE TYPE	Permit Condition	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24
	Monitored	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24	Comp24
FREQUENCY	Permit Condition	Monthly	Monthly	Monthly	Monthly	5/Week	5/Week	Monthly	Monthly
	Monitored	Monthly	Monthly	Monthly	Monthly	5/Week	5/Week	Monthly	Monthly
EFFLUENT LIMITATIONS	Permit Minimum	******	******	******	******	******	******	******	******
	Permit Average	Report	Report	Report	Report	10.0	Report	Report	Report
	Permit Maximum	Report	Report	Report	Report	30.0	Report	Report	Report
UNITS =		Lbs/day	mg/L	Lbs/day	mg/L	Lbs/day	mg/L	Lbs/day	mg/L
01									
02									
03						0.65	0.010		
04		< 0.005	< 0.000070	< 0.007	< 0.00010	1.18	0.0165	< 0.02	< 0.00034
05									
06						1.84	0.0269		
07						0.83	0.0132		
08									
09									
10						1.03	0.0147		
11						2.31	0.034		
12						1.97	0.0268		
13						1.52	0.0209		
14						2.48	0.0346		
15									
16									
17						1.02	0.0135		
18						0.98	0.0126		
19						1.82	0.0226		
20						1.31	0.0163		
21						2.51	0.0335		
22						0.74	0.010		
23						1.33	0.020		
24						1.49	0.0214		
25						1.19	0.0149		
26						1.42	0.0194		
27									
28									
29						1.2	0.017		
30						0.58	0.0082		
31						0.94	0.0121		
MONTHLY AVERAGE		0	0	0	0	1.32	0.0183	0	0
HIGHEST VALUE		< 0.005	< 0.000070	< 0.01	< 0.00010	2.51	0.035	< 0.02	< 0.00034
LOWEST VALUE		< 0.005	< 0.000070	< 0.01	< 0.00010	0.58	0.0082	< 0.02	< 0.00034
NO. OF TIMES WEEKLY OR DAILY EFFL. LIMITATIONS EXCEEDED		0	0	0	0	0	0	0	0

Highlighted daily values are <LOQ & >= LOD, and are not quantifiable.

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I	N	0	0	0	0	3	3	7		3	0	4	A		0	1	1	7
PERMIT NUMBER										OUTFALL NO.					MO.		YR.	

EFFLUENT CHARACTERISTICS		Chromium, Hexavalent		Tetrachloroethylene		Naphthalene		Total Toxic Organics	
EFFLUENT PARAMETER NUMBER		Q01220	C01220	Q34475	C34475	Q34696	C34696	Q78224	C78224
SAMPLE TYPE	Permit Condition	Grab	Grab	Grab	Grab	Grab	Grab	Comp24	Comp24
	Monitored	Grab	Grab	Grab	Grab	Grab	Grab		
FREQUENCY	Permit Condition	Weekly	Weekly	Monthly	Monthly	Monthly	Monthly	Monthly	Monthly
	Monitored	Weekly	Weekly	Monthly	Monthly	Monthly	Monthly		
EFFLUENT LIMITATIONS	Permit Minimum	******	******	******	******	******	******	******	******
	Permit Average	0.17	Report	******	Report	******	******	******	******
	Permit Maximum	0.51	Report	1.29	Report	0.86	Report	38.43	Report
UNITS =		Lbs/day	mg/L	Lbs/day	mg/L	Lbs/day	mg/L	Lbs/day	mg/L
01									
02									
03									
04				< 0.019	< 0.00027	< 0.01	< 0.00010		
05		0.020	0.00030						
06									
07									
08									
09									
10									
11									
12		2.371	0.032						
13									
14									
15									
16									
17									
18									
19		< 0.004	< 0.000055						
20		< 0.005	< 0.000059						
21		< 0.004	< 0.000055						
22		< 0.004	< 0.000053						
23		< 0.004	< 0.000055						
24		< 0.004	< 0.000056						
25		0.013	0.00016						
26		< 0.004	< 0.000052						
27		0.015	0.00018						
28									
29		< 0.004	< 0.000052						
30		< 0.004	< 0.000052						
31		< 0.004	< 0.000052						
MONTHLY AVERAGE		0.17	0.0023	0	0	0	0	NA	NA
HIGHEST VALUE		2.37	0.032	< 0.02	< 0.00027	< 0.01	< 0.00010	NA	NA
LOWEST VALUE		< 0.004	< 0.000052	< 0.02	< 0.00027	< 0.01	< 0.00010	NA	NA
NO. OF TIMES WEEKLY OR DAILY EFFL. LIMITATIONS EXCEEDED		1	0	0	0	0	0	0	0

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Joseph E. Hanning, Manager Environmental Control

2/21/2017
DATE

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DMR Copy of Record

Permit

Permit #:	IN0000337	**Permittee:**	US STEEL CORP, MIDWEST PLANT	**Facility:**	US STEEL CORP MIDWEST PLANT
Major:	Yes	**Permittee Address:**	6300 US 12 PORTAGE, IN 463681287	**Facility Location:**	6300 US 12 US 12 & SR 249 PORTAGE, IN 463681287
Permitted Feature:	304 Internal Outfall	**Discharge:**	304-A MIDWEST STEEL COMBINED TOTAL (104 & 204)		

Report Dates & Status

Monitoring Period:	From 01/01/17 to 01/31/17	**DMR Due Date:**	02/28/17	**Status:**	NetDMR Validated

Considerations for Form Completion

INTERNAL OUTFALL DISCHARGING TO 004A. INDUSTRIAL MAJOR PORTAGE / PORTER COUNTY

Principal Executive Officer

First Name:	Joseph	**Title:**	Manager Environmental Control	**Telephone:**	219-888-4500
Last Name:	Hanning				

No Data Indicator (NODI)

Form NODI: --

Parameter Code	Parameter Name	Monitoring Location	Season #	Param NODI		Quantity or Loading Qualifier 1	Value 1	Qualifier 2	Value 2	Units	Quality or Concentration Qualifier 1	Value 1	Qualifier 2	Value 2	Qualifier 3	Value 3	Units	# of Ex.	Frequency of Analysis	Sample Type
00530	Solids, total suspended	R - See Comments	0	--	Sample	=	152	=	382	26 - lb/d			=	2.1	=	5.4	19 - mg/L		05/WK - Five Per Week	24 - COMP24
					Permit Req.	<=	1147 MO AVG	<=	2290 DAILY MX	26 - lb/d				Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	05/WK - Five Per Week	24 - COMP24
					Value NODI															
00552	Oil and grease, hexane extr method	R - See Comments	0	--	Sample			=	270.1	26 - lb/d			=	0	=	4	19 - mg/L		05/WK - Five Per Week	3R - 3GR24H
					Permit Req.			<=	765 DAILY MX	26 - lb/d				Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	05/WK - Five Per Week	3R - 3GR24H
					Value NODI															
00720	Cyanide, total [as CN]	R - See Comments	0	--	Sample	=	0	=	0.17	26 - lb/d			=	0	=	0.0022	19 - mg/L		05/WK - Five Per Week	GR - GRAB
					Permit Req.	<=	3.41 MO AVG	<=	7.95 DAILY MX	26 - lb/d				Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	05/WK - Five Per Week	GR - GRAB
					Value NODI															
00951	Fluoride, total [as F]	R - See Comments	0	--	Sample	=	22.1	=	22.1	26 - lb/d			=	0.31	=	0.31	19 - mg/L		01/30 - Monthly	24 - COMP24
					Permit Req.	<=	150 MO AVG	<=	400 DAILY MX	26 - lb/d				Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	01/30 - Monthly	24 - COMP24
					Value NODI															
01074	Nickel, total recoverable	R - See Comments	0	--	Sample	=	0.16	=	0.16	26 - lb/d			=	0.0022	=	0.0022	19 - mg/L		01/30 - Monthly	24 - COMP24
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	26 - lb/d				Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	01/30 - Monthly	24 - COMP24
					Value NODI															
01079	Silver total recoverable	R - See Comments	0	--	Sample	=	0	<	0.01	26 - lb/d			=	0	<	0.00007	19 - mg/L		01/30 - Monthly	24 - COMP24
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	26 - lb/d				Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	01/30 - Monthly	24 - COMP24
					Value NODI															
01094	Zinc, total recoverable	R - See Comments	0	--	Sample	=	0.93	=	1.19	26 - lb/d			=	0.011	=	0.017	19 - mg/L		05/WK - Five Per Week	24 - COMP24
					Permit Req.	<=	10 MO AVG	<=	30 DAILY MX	26 - lb/d				Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	05/WK - Five Per Week	24 - COMP24
					Value NODI															
01113	Cadmium, total recoverable	R - See Comments	0	--	Sample	=	0	<	0.005	26 - lb/d			=	0	<	0.00007	19 - mg/L		01/30 - Monthly	24 - COMP24
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	26 - lb/d				Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	01/30 - Monthly	24 - COMP24
					Value NODI															
01114	Lead, total recoverable	R - See Comments	0	--	Sample	=	0	<	0.007	26 - lb/d			=	0	<	0.0001	19 - mg/L		01/30 - Monthly	24 - COMP24
					Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	26 - lb/d				Req Mon MO AVG		Req Mon DAILY MX	19 - mg/L	0	01/30 - Monthly	24 - COMP24

34

					Value NODI															
					Sample	=	1.32	=	2.51	26 - lb/d		=	0.018	=	0.035		19 - mg/L		05/WK - Five Per Week	24 - COMP24
01118	Chromium, total recoverable	R - See Comments	0	--	Permit Req.	<=	10 MO AVG	<=	30 DAILY MX	26 - lb/d			Req Mon MO AVG		Req Mon DAILY MX		19 - mg/L	0	05/WK - Five Per Week	24 - COMP24
					Value NODI															
					Sample	=	0	<	0.02	26 - lb/d		=	0	<	0.00034		19 - mg/L		01/30 - Monthly	24 - COMP24
01119	Copper, total recoverable	R - See Comments	0	--	Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	26 - lb/d			Req Mon MO AVG		Req Mon DAILY MX		19 - mg/L	0	01/30 - Monthly	24 - COMP24
					Value NODI															
					Sample	=	0.17	=	2.37	26 - lb/d		=	0.0023	=	0.032		19 - mg/L		01/07 - Weekly	GR - GRAB
X 01220	Chromium, hexavalent dissolved [as Cr]	R - See Comments	0	--	Permit Req.	<=	1.7 MO AVG	<=	5.1 DAILY MX	26 - lb/d			Req Mon MO AVG		Req Mon DAILY MX		19 - mg/L	1	01/07 - Weekly	GR - GRAB
					Value NODI															
					Sample			<	0.02	26 - lb/d		=	0	<	0.00027		19 - mg/L		01/30 - Monthly	GR - GRAB
34475	Tetrachloroethylene	R - See Comments	0	--	Permit Req.			<=	1.23 DAILY MX	26 - lb/d			Req Mon MO AVG		Req Mon DAILY MX		19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
					Sample			<	0.007	26 - lb/d				<	0.0001		19 - mg/L		01/30 - Monthly	GR - GRAB
34696	Naphthalene	R - See Comments	0	--	Permit Req.			<=	.06 DAILY MX	26 - lb/d					Req Mon DAILY MX		19 - mg/L	0	01/30 - Monthly	GR - GRAB
					Value NODI															
					Sample	=	8.36	=	9.87	03 - MGD									05/WK - Five Per Week	TM - TOTALZ
50050	Flow, in conduit or thru treatment plant	R - See Comments	0	--	Permit Req.		Req Mon MO AVG		Req Mon DAILY MX	03 MGD								0	05/WK - Five Per Week	TM - TOTALZ
					Value NODI															
					Sample															
78224	Total toxic organics [TTO] [40 CFR433]	R - See Comments	0	--	Permit Req.			<=	38.49 DAILY MX	26 - lb/d					Req Mon DAILY MX		19 - mg/L		01/30 - Monthly	24 - COMP24
					Value NODI				9 - Conditional Monitoring - Not Required This Period						9 - Conditional Monitoring - Not Required This Period					

Submission Note

If a parameter row does not contain any values for the Sample nor Effluent Trading, then none of the following fields will be submitted for that row: Units, Number of Excursions, Frequency of Analysis, and Sample Type.

Edit Check Errors

Parameter Code	Parameter Name	Monitoring Location	Field	Type	Description	Acknowledge
01220	Chromium, hexavalent dissolved [as Cr]	R - See Comments	Quantity or Loading Sample Value 2	Soft	The provided sample value is outside the permit limit. (Error Code: 1)	Yes

Comments

Attachments

Name	Type	Size
IN0000337_304A_MMR_2017_01.pdf	pdf	38835
IN0000337_304A_TTOCert_2017_01.pdf	pdf	41406

Report Last Saved By

US STEEL CORP, MIDWEST PLANT

User: amanda.grzybowski@alsglobal.com

Date/Time: 2017-02-27 12:10 (Time Zone: -06:00)

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