



**Michigan Industrial Pretreatment Program (MIPP)
Annual Report Form**

SECTION 1: GENERAL INFORMATION

1. Name of Facility: City of Sturgis
2. NPDES Permit Number: MI0020451 FAX:
3. Contact Person: Tom Sikorski Phone: 269-659-7250
4. Reporting Period: 01.01.2015 to 12.31.2015 E-mail: tsikorski@sturgismi.gov
5. Attach a summary of any sampling results for the influent, effluent, and sludge monitoring conducted during the reporting period.
6. Total Number of Industrial Users: 40 SIUs: 5 CIUs: 4 Non-categorical SIUs: 1

7. Have there been any additions, deletions, or any other modifications to the previous year's Significant Industrial User (SIU) list or industrial user inventory? If **NO**, check here ☒. If yes, provide the following information (attach additional sheets if necessary):

Facility Name	Change Add/Delete	Explanation	✓ Check if CIU/SIU* OR SIU
			<input type="checkbox"/> <input type="checkbox"/>
			<input type="checkbox"/> <input type="checkbox"/>
			<input type="checkbox"/> <input type="checkbox"/>
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			<input type="checkbox"/> <input type="checkbox"/>
			<input type="checkbox"/> <input type="checkbox"/>

For all new or changed SIUs, provide: Process Description; Flow Information; and Reason It's Classified as an SIU.

*A CIU is always an SIU, but an SIU is not always a CIU.

CERTIFICATION

I certify under penalty of law that all the information supplied in this report, including attachments, is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature: Tom Sikorski Date: 01/15/2016

Title: WWTP Superintendent



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SECTION II: SIU INFORMATION

• Fill in one column for each SIU (attach additional sheets if necessary).

	SIU # <u>1</u>	SIU # <u>2</u>				
a. SIU Name.	Abbott Nutrition	Midwest Tool & Cutlery II				
b. Categorical Classification (if applicable).	none	Metal Finishing				
c. Date(s) Inspected.	12/11/2015	12/17/2015				
d. Permit Issued Date.	10/01/2011	02/01/2012				
e. Permit Expiration.	07/31/2014	01/31/2016				
f. Did this permittee have an expired permit at any time during the reporting period?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
g. If yes, list dates.	1/1/15 - 12/31/15					
h. How often has the <u>POTW</u> sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	4	2				
i. How often has the <u>SIU</u> sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	0	0				
j. Was this SIU in SNC (in non-compliance with limits, sampling, and reporting requirements) at any time during the reporting period? If 'No' go to l.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
k. If yes (in SNC), were notices published in the newspaper? * If Yes, attach copy of actual notice.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				
l. List: • Violations • corresponding enforcement actions, and • whether or not the SIU has returned to compliance. (attach extra sheets if necessary)	Violations	Enforcement Actions	In Compliance?	Violations	Enforcement Actions	In Compliance?
			yes			yes
m. Additional Information.						

* Publication of CIUs required; non-CIUs optional.



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SECTION II: SIU INFORMATION

• Fill in one column for each SIU (attach additional sheets if necessary).

	SIU # <u>3</u>	SIU # <u>4</u>				
a. SIU Name.	Iceberg, LLC	Summit Polymers, Inc-SYNTECH Plant				
b. Categorical Classification (if applicable).	Metal Finishing	Plastic Molding				
c. Date(s) Inspected.	12/10/2015	12/10/2015				
d. Permit Issued Date.	10/01/2015	05/31/2015				
e. Permit Expiration.	09/30/2018	04/01/2019				
f. Did this permittee have an expired permit at any time during the reporting period?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
g. If yes, list dates.						
h. How often has the <u>POTW</u> sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	4	2				
i. How often has the <u>SIU</u> sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	0	0				
j. Was this SIU in SNC (in non-compliance with limits, sampling, and reporting requirements) at any time during the reporting period? If 'No' go to l.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No				
k. If yes (in SNC), were notices published in the newspaper? * If Yes, attach copy of actual notice.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No				
l. List: • Violations • corresponding enforcement actions, and • whether or not the SIU has returned to compliance. (attach extra sheets if necessary)	Violations	Enforcement Actions	In Compliance?	Violations	Enforcement Actions	In Compliance?
			yes			yes
m. Additional Information.						

* Publication of CIUs required; non-CIUs optional.



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SECTION II: SIU INFORMATION

• Fill in one column for each SIU (attach additional sheets if necessary).

	SIU # <u>5</u>	SIU # _____																		
a. SIU Name.	Sturgis Molded Product																			
b. Categorical Classification (if applicable).	Plastic Molding																			
c. Date(s) Inspected.	09/15/2015																			
d. Permit Issued Date.	12/13/2013																			
e. Permit Expiration.	12/12/2018																			
f. Did this permittee have an expired permit at any time during the reporting period?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No																		
g. If yes, list dates.																				
h. How often has the <u>POTW</u> sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	2																			
i. How often has the <u>SIU</u> sampled and analyzed for all regulated pollutants in accordance with 40 CFR 136 requirements?	0																			
j. Was this SIU in SNC (in non-compliance with limits, sampling, and reporting requirements) at any time during the reporting period? If 'No' go to l.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No																		
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Violations	Enforcement Actions	In Compliance?																		
		yes																		
Violations	Enforcement Actions	In Compliance?																		
m. Additional Information.																				

* Publication of CIUs required; non-CIUs optional.



City of Sturgis

Summary of Influent and Effluent Sampling

The following table contains the averages of all sampling results (including the units used) taken by the POTW during the reporting period. For the purpose of calculating the average , those sampling results below the level of detection are entered as 1/2 the detection limit.

2015	Calendar Year	Average Reading	Number of samples used for average	Average of Detection Limit	Maximum Pounds	Removal Efficiency Min	Avg
INFLUENT, Compatibles							
Influent, BOD	251	mg/L	365	2	4,473		
Influent, SS	270	mg/L	365	2	6,591		
Influent, Phosphorus	6.58	mg/L	52	0.1	117		
Influent, NH3	22.6	mg/L	365	0.1	299		
Influent, pH	7.8	S.U.	365				
INFLUENT, METALS							
Arsenic	0.00140	mg/L	5	0.000			
Cadmium	0.00022	mg/L	5	0.000			
Chromium	0.00620	mg/L	5	0.001			
Copper	0.09780	mg/L	5	0.001			
Cyanide, Total	0.00100	mg/L	4	0.002			
Lead	0.00660	mg/L	5	0.001			
Mercury	0.00010	mg/L	3	0.00020			
Molybdenum	0.01767	mg/L	3	0.002			
Nickel	0.00920	mg/L	5	0.001			
Selenium	0.00110	mg/L	5	0.002			
Silver	0.00237	mg/L	5	0.001			
Zinc	0.13080	mg/L	5	0.001			
EFFLUENT, Compatibles							
				Max Day			
Effluent, BOD	4	mg/L	365	17	2	93.2%	98.4%
Effluent, SS	5	mg/L	365	12	2	93.8%	98.0%
Effluent, Phosphorus	0.42	mg/L	52	1.00	0.1	85.3%	93.5%
Effluent, NH3	0.50	mg/L	365	3.4	0.1	85.1%	97.8%
Effluent, pH	7.9	S.U.	365				
EFFLUENT, METALS							
Arsenic	0.20	ug/L	5	0.4		75.0%	90.0%
Cadmium	0.0401	ug/L	5	0.1		0.0%	76.6%
Chromium	0.400	ug/L	5	0.4		83.3%	93.7%
Copper	3.421	ug/L	5	0.6		85.5%	95.4%
Cyanide, Available	1.00	ug/L	2				
Lead	0.4001	ug/L	5	0.6		87.5%	93.7%
Mercury	0.60000	ng/L	7	0.40		99.9%	99.9%
Molybdenum	9.336	ug/L	3			10.0%	49.6%
Nickel	6.202	ug/L	5	0.8		-20.0%	27.7%
Selenium	0.7001	ug/L	1	1.4		54.5%	84.1%
Silver	0.170	ug/L	5	0.4		0.0%	76.3%
Zinc	9.504	ug/L	5	0.8		84.2%	92.9%
Cyanide, Total	0.00325	ug/L	4	0.002			
Summary Totals							
	LBS	<u>INFLUENT</u>	Avg.	Max day	<u>EFFLUENT</u>	Avg	Max Day
					Dissolved Oxygen, minimum		5.30
Total INF Q,MG	391		1.07	1.70	EFF , Q	1.34	2.14
Total BOD, LBS	813,525		2,229		12,640	35	98.4%
Total SS, LBS	878,858		2,408		17,142	47	98.0%
Total Phos, LBS	3,083		59		199	4	93.5%
Total NH3, LBS	72,764		199		1,592	4	97.8%

{mor98.SAMPLE_DAT} in DateTime (2015, 01, 01, 00, 00, 00) to DateTime (2015, 12, 31, 23, 59, 59)

3/7/2016



City of Sturgis

Summary of Influent and Effluent Sampling

The following table contains the averages of all sampling results (including the units used) taken by the POTW during the reporting period. For the purpose of calculating the average , those sampling results below the level of detection are entered as 1/2 the detection limit.

Fe	59,358	\$28,492			Electric	150,720	KWH	\$16,061
Cl2	3,942	\$2,614	Precip.	34.27	DTOU	714,120	KWH	\$59,575
Polymer	0	\$0			Gas Produced	ccf		61,833
					Decant gallons			2,873,601
					Primary sludge TS lbs avg			1,394
					Primary sludge VS lbs avg			934

Sturgis WWTP

Summary of Biosolids Analysis for Calendar year 2015

	%Total Solids	% Volatile Solids	S.U.	Arsenic mg/kg	Cadmium mg/kg	Chromium mg/kg	Copper mg/kg	Lead mg/kg	Mercury mg/kg	Nickel mg/kg
DATE	TS	TVS	pH	AS	CD	CR	CU	PB	HG	NI
1/5/15	4.65	53	7.4	0.05	0.01	83.7	631	20.9	0.33	0.25
4/6/15	11.85	45	7.2	0.05	0.01	70.1	517	36.4	0.45	27.90
7/9/15	4.63	55	7.3	0.05	0.01	106.0	832	46.5	0.63	29.00
10/6/15	4.97	53	7.5	7.60	0.01	116.0	937	45.0	0.51	28.90

Avg	6.53	52	7.4	1.94	0.01	94.0	729	37.2	0.48	21.51
Max	11.85	55	7.5	7.60	0.01	116.0	937	46.5	0.63	29.00
Min	4.63	45	7.2	0.05	0.01	70.1	517	20.9	0.33	0.25
# of samples	4	4	4	4	4	4	4	4	4	4

	Molybdenum mg/kg	Potassium % wt	Selenium mg/kg	Silver mg/kg	Zinc mg/kg		Ammonia % wt	Nitrate % wt	Total Nitrogen % wt	Phosphorus % wt
DATE	MO	K	SE	AG	ZN		NH4	NO3	TKN	P
1/5/15	0.05	0.1050	0.1	0.05	682		1.440	<0.0022	4.65	2.53
4/6/15	22.00	0.0523	0.1	33.10	654		0.929	<0.0008	4.19	2.19
7/9/15	0.05	0.1990	4.3	8.40	993		1.790	18.1000	23.60	2.63
10/6/15	25.50	0.1770	4.0	1.60	1210		1.750	<0.0002	4.78	3.83

Avg	11.90	0.1333	2.1	10.79	885		1.477	4.5258	9.31	2.80
Max	25.50	0.1990	4.3	33.10	1210		1.790	18.1000	23.60	3.83
Min	0.05	0.0523	0.1	0.05	654		0.929	<0.0002	4.19	2.19
# of samples	4	4	4	4	4		4	4	4	4

List of Users for Annual Public Notification of Significant Noncompliance (40CFR403.8(f)(2)(vii))

Name of Treatment Facility : City of Sturgis WWTP

Reporting Period : From 1/1/2015 To 12/31/2015

Report Date : 3/8/2016

Company Name	Permit Number	Description of Significant Noncompliance	Enforcement Activities
		SNC Date: to	EA type : EA issued date : Req. response date : Response complete date : EA Action: