

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>	PERMIT NUMBER <b>M100022276</b>
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MONITORING PERIOD:		FROM	TO	
YEAR <b>2013</b>	MONTH <b>01</b>	DAY <b>01</b>	YEAR <b>2013</b>	MONTH <b>01</b> DAY <b>31</b>

	CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To		
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF		
Day																				
1	199.50	2.5	6.6	498	24.0	26.4	71	440	1											
2	235.60	2.4	6.2	486	23.5	25.2	76	435	1											
3	219.34	1.6	6.4	505	24.0	24.7	74	500	1											
4	220.66	1.3	6.6	481	22.2	22.9	78	570	1											
5	232.00	2.3	6.2	519	24.0	22.9	77	520	1											
6	238.50	2.1	6.4	590	24.0	22.7	77	1100	1											
7	271.50	2.3	6.3	621	24.0	25.6	75	600	1											
8	204.99	1.6	6.4	479	17.5	23.6	79	1110	1											
9	126.52	1.9	6.1	386	9.0	23.0	82	1080	1											
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				
25																				
26																				
27																				
28	151.93	2.2	6.5	475	14.5	21.2	76	430	1											
29	127.02	2.4	6.1	360	11.0	20.6	77	490	1											
30																				
31																				
TOTAL	2227.56	22.6	69.8	5400	217.7	258.8	842	7275		0.00	0.0	0.0	0	0.0	0.0	0	0			
AVERAGE	202.51	2.1	6.3	491	19.8	23.5	77	661		0.00	0.0	0.0	0	0.0	0.0	0	0			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	MI00022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	DAY
2013	01	01	31

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9	151.64	2.0	6.0	221	13.0	23.2	78	580	1										
10	294.70	1.7	6.3	694	24.0	23.3	77	640	1										
11	246.30	2.7	6.2	645	21.0	24.8	77	840	1										
12	255.50	1.9	6.3	754	24.0	21.2	78	640	1										
13	244.50	2.2	6.2	747	23.8	20.3	78	500	1										
14	235.00	2.0	6.4	662	21.5	21.3	79	600	1										
15	254.30	2.0	6.4	757	24.0	20.0	79	367	1										
16	268.70	2.0	6.2	759	24.0	20.0	79	625	1										
17	246.00	1.9	6.4	726	24.0	21.3	80	830	1										
18	238.00	2.2	6.3	664	23.0	20.2	82	630	1										
19	269.50	2.3	6.3	625	24.0	22.9	77	470	1										
20	253.00	2.7	6.2	621	24.0	21.5	78	405	1										
21	245.00	2.0	6.4	740	24.0	20.5	78	340	1										
22	249.00	2.4	6.4	805	24.0	19.5	81	370	1										
23	222.00	2.0	6.4	697	20.0	20.1	82	420	1										
24	257.00	2.4	6.0	832	24.0	20.7	79	520	1										
25	268.00	2.2	6.2	807	24.0	22.9	76	430	1										
26	280.00	1.8	6.2	807	24.0	21.4	77	490	1										
27	250.00	2.2	6.2	849	24.0	21.1	77	560	1										
28	96.87	2.3	6.5	326	9.0	23.4	74	360	1										
29	126.13	2.4	6.0	426	13.0	19.8	79	495	1										
30	255.00	3.0	6.0	741	23.8	24.6	79	347	1										
31	261.00	2.1	5.8	706	24.0	24.0	78	390	1										
TOTAL	5467.14	50.4	143.3	15611	504.1	498.0	1802	11849		0.00	0.0	0.0	0	0.0	0.0	0	0		
AVERAGE	237.70	2.2	6.2	679	21.9	21.7	78	515		0.00	0.0	0.0	0	0.0	0.0	0	0		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



## CENTRIFUGE 1 AND 2

BATTLE CREEK, MICHIGAN 49037

FROM	TO
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MONITORING PERIOD:		FROM		TO		
YEAR	MONTH	DAY		YEAR	MONTH	DAY
2013	02	01		2013	02	28

DATE

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

## CENTRIFUGE 3 &amp; 4

BATTLE CREEK, MICHIGAN 49037

001	MI00022276
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DAY	YEAR	MONTH	DAY
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MONITORING PERIOD:		FROM		TO	
YEAR	MONTH	DAY	YEAR	MONTH	DAY
2013	02	01	2013	02	28

AVERAGE	256.16	1.9	6.3	826	23.0	21.4	79	417	0.00	0.0	0	0.0	0	0
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DATE \_\_\_\_\_

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>M100022276</b>	
MONITORING PERIOD:			
FROM	TO	YEAR	DAY
2013 03 01	2013 03 31		

	CENTRIFUGE # 1										CENTRIFUGE # 2									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF		
Day																				
1	326.00	1.9	6.4	1167	24.0	20.9	80	585	1											
2	331.00	1.9	6.3	1242	24.0	19.8	79	80	1											
3	321.00	1.9	6.3	1292	23.5	19.8	77	600	1											
4	333.15	1.9	6.6	1368	24.0	17.2	76	325	1											
5	324.85	1.8	6.6	1368	24.0	20.2	77	350	1											
6	335.80	2.2	6.4	1368	24.0	21.0	80	350	1											
7	333.20	2.3	6.5	1368	24.0	19.6	78	360	1											
8	307.60	1.9	6.6	1368	24.0	21.3	80	355	1											
9	307.40	2.1	6.4	1360	24.0	21.8	77	500	1											
10	309.00	2.3	6.5	1326	24.0	19.8	83	380	1											
11	312.50	1.8	6.4	1312	24.0	20.6	76	350	1											
12	297.50	1.8	6.5	1296	24.0	21.1	76	390	1											
13	293.00	2.3	6.4	1284	24.0	21.1	81	450	1											
14	318.65	2.8	6.3	1284	24.0	21.6	78	490	1											
15	308.35	2.1	6.5	1129	24.0	22.2	78	355	1											
16	256.00	1.9	6.4	968	20.0	20.9	77	360	1											
17	284.50	2.2	6.4	1002	20.8	22.7	77	510	1											
18	329.62	2.1	6.6	1181	24.0	22.4	74	450	1											
19	310.88	2.0	6.6	1200	24.0	21.6	78	405	1											
20	320.00	1.9	6.4	1200	24.0	21.4	80	540	1											
21	310.00	2.0	6.5	1200	24.0	21.9	77	510	1											
22	300.00	1.9	6.3	1188	23.8	21.7	79	453	1											
23	355.91	1.8	6.6	1200	24.0	21.0	76	460	1											
24	307.09	2.0	6.6	1200	24.0	20.7	80	370	1											
25	299.00	1.8	6.7	1099	24.0	21.1	76	340	1											
26	294.20	1.7	6.5	1023	24.0	20.7	82	385	1											
27	303.00	2.2	6.4	993	24.0	21.8	76	433	1											
28	279.99	1.7	6.7	962	24.0	22.2	77	340	1											
29	258.90	1.1	6.7	954	24.0	20.2	77	325	1											
30	259.90	1.9	6.5	954	24.0	21.8	76	335	1											
31	218.06	2.0	6.5	692	18.8	23.2	80	230	1											
TOTAL	9446.05	61.2	201.1	36548	730.9	653.3	2418	12366		0.00	0.0	0.0	0	0.0	0.0	0	0	0		
AVERAGE	304.71	2.0	6.5	1179	23.6	21.1	78	399		0.00	0.0	0.0	0	0.0	0.0	0	0	0		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
FROM	TO	FROM	TO
YEAR MONTH DAY	YEAR MONTH DAY	YEAR MONTH DAY	YEAR MONTH DAY
2013 04 01	2013 04 30		

CENTRIFUGE # 1										CENTRIFUGE # 2									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	
Day																			
1	308.14	1.9	6.6	993	24.0	22.4	74	240	1										
2	306.70	2.0	6.6	959	24.0	23.7	76	375	1										
3	295.30	1.9	6.5	933	24.0	24.4	75	330	1										
4	180.07	2.3	6.6	532	14.0	24.1	73	330	1										
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
TOTAL	1090.21	8.1	26.3	3417	86.0	94.6	298	1275		0.00	0.0	0.0	0	0.0	0.0	0	0		
AVERAGE	272.55	2.0	6.6	854	21.5	23.7	75	319		0.00	0.0	0.0	0	0.0	0.0	0	0		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEES NAME <b>CITY OF BATTLE CREEK - WWTP</b>	
PERMITTEES ADDRESS <b>2000 WEST RIVER ROAD</b>	
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>	

DISCHARGE NUMBER <b>001</b>				PERMIT NUMBER <b>MI00022276</b>			
MONITORING PERIOD:							
YEAR	MONTH	DAY	FROM	YEAR	MONTH	DAY	TO
2013	04	01		2013	04	30	

CENTRIFUGE #3											CENTRIFUGE #4										
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH
Day																					
1																					
2																					
3																					
4										70.12	2.1	6.6	101	9.0	9.0	79	490				
5										304.40	2.1	6.6	312	24.0	10.3	79	770				
6										315.00	2.0	6.5	312	24.0	11.6	81	740				
7										283.00	2.2	6.4	312	24.0	11.3	80	780				
8										283.00	1.2	6.6	312	24.0	11.0	80	1050				
9										223.00	2.0	6.5	230	15.8	11.8	81	1200				
10										256.84	2.7	6.6	109	17.0	12.2	79	3480				
11										360.30	2.5	6.4	210	24.0	11.3	82	3180				
12										342.40	1.0	6.4	316	23.3	10.8	80	1460				
13										324.10	1.7	6.4	330	24.0	11.5	80	1130				
14										327.90	1.6	6.3	330	24.0	10.6	82	225				
15										284.00	2.0	6.5	324	23.5	10.4	82	980				
16										286.00	2.2	6.5	330	24.0	10.9	84	990				
17										271.60	2.0	6.3	330	24.0	10.7	83	1050				
18										261.40	1.9	6.6	331	24.0	9.8	82	920				
19										254.00	1.8	6.5	317	23.0	10.8	81	890				
20										303.00	1.5	6.4	330	24.0	11.0	80	1260				
21										300.00	2.2	6.3	330	24.0	10.9	78	1110				
22										238.00	1.0	6.5	261	19.0	11.0	80	490				
23										314.00	2.0	6.4	330	24.0	10.9	81	1190				
24										322.00	2.0	6.4	330	24.0	10.8	85	1350				
25										301.90	2.0	6.4	332	24.0	11.2	83	1370				
26										284.10	2.0	6.5	330	24.0	11.1	83	1040				
27										278.00	1.7	6.5	330	23.5	11.2	82	1190				
28										289.00	2.2	6.2	330	24.0	10.5	82	900				
29										276.00	2.0	6.5	307	22.3	10.3	82	870				
30										282.00	2.3	6.5	330	23.8	11.1	80	1070				
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		7635.06	51.9	174.3	8046	608.2	294.0	2191	31175				
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		282.78	1.9	6.5	298	22.5	10.9	81	1155				

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
	DATE

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2013	05	01	2013 05 31

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L		
Day																			
1										309.00	3.3	6.5	372	24.0	12.8	74	2320		LA
2										318.38	2.2	6.5	372	24.0	12.0	78	1180		LA
3										328.62	2.5	6.4	372	24.0	12.3	79	2060		LA
4										335.50	2.1	6.3	372	24.0	9.6	87	1240		LA
5										310.50	2.1	6.4	372	24.0	9.9	82	1220		LA
6										300.00	1.6	6.5	372	24.0	9.9	80	720		LA
7										276.00	1.8	6.6	372	24.0	9.1	82	720		LA
8										308.00	1.6	6.5	372	24.0	10.5	80	1130		LA
9										287.00	1.9	6.5	372	24.0	11.6	81	1230		LA
10										313.00	2.0	6.5	372	24.0	10.9	82	1260		LA
11										311.00	1.5	6.5	372	24.0	10.7	80	830		LA
12										325.00	2.1	6.3	372	24.0	10.2	83	800		LA
13										333.00	1.7	6.4	372	24.0	10.6	81	630		LA
14										336.00	1.6	6.5	372	24.0	12.8	78	1640		LA
15										344.00	2.4	6.4	372	24.0	12.2	78	3080		LA
16										336.00	2.3	6.1	372	24.0	11.1	81	1160		LA
17										339.40	2.2	6.4	372	24.0	11.4	83	1640		LA
18										317.60	2.0	6.4	372	24.0	12.4	86	1020		LA
19										322.00	2.2	6.4	372	24.0	11.8	80	1110		LA
20										316.00	2.0	6.6	372	24.0	10.6	82	1260		LA
21										323.00	1.8	6.6	372	24.0	10.0	79	1420		LA
22										306.60	2.0	6.4	372	24.0	10.0	87	1150		LA
23										292.00	1.7	6.7	372	23.8	9.9	83	840		LA
24										274.00	1.7	6.6	414	24.0	10.6	80	780		LA
25										247.00	1.9	6.6	375	24.0	10.0	80	580		LA
26										259.00	1.8	6.6	379	24.0	8.3	84	420		LA
27										243.50	1.4	6.8	372	23.5	9.6	76	425		LA
28										254.00	2.2	6.8	372	24.0	11.1	79	487		LA
29										268.00	2.3	6.6	372	24.0	12.0	79	580		LA
30										266.00	1.6	6.6	372	24.0	10.5	80	580		LA
31										263.00	2.0	6.7	319	21.5	10.7	84	700		LA
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	9362.10	61.5	201.7	11531	740.8	335.1	2508	34212		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		302.00	2.0	6.5	372	23.9	10.8	81	1104		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>M100022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2013	06	01	2013 06 30

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	
1										265.00	1.6	6.6	345	22.2	11.4	82	680	LA	
2										304.00	1.9	6.5	372	24.0	9.9	86	680	LA	
3										280.00	1.3	6.7	372	24.0	10.4	77	630	LA	
4										294.00	1.7	6.6	368	23.8	10.3	81	730	LA	
5										282.00	1.8	6.5	357	23.0	11.4	77	1140	LA	
6										296.00	1.7	6.5	357	23.0	11.1	79	1080	LA	
7										293.00	1.6	6.6	372	24.0	11.0	79	920	LA	
8										282.50	1.7	6.6	372	24.0	10.8	80	860	LA	
9										293.50	2.0	6.4	372	24.0	9.7	80	1000	LA	
10										249.00	1.6	6.6	326	21.0	9.6	78	890	LA	
11										292.00	1.8	6.5	304	24.0	10.6	79	1310	LA	
12										270.00	2.2	6.3	312	24.0	11.1	81	740	LA	
13										263.00	2.2	6.4	312	24.0	10.8	80	900	LA	
14										242.00	1.1	6.6	308	23.8	10.3	79	880	LA	
15										254.40	1.9	6.4	314	24.0	9.7	81	860	LA	
16										245.60	2.1	6.5	312	24.0	9.6	82	1067	LA	
17										245.50	2.2	6.3	324	22.5	9.8	80	1360	LA	
18										252.00	1.7	6.5	372	24.0	8.3	82	1210	LA	
19										240.00	2.2	6.4	372	24.0	11.3	79	1940	LA	
20										270.00	1.8	6.4	372	24.0	11.1	78	1780	LA	
21										244.00	2.1	6.3	372	24.0	10.6	79	1200	LA	
22										259.00	2.1	6.4	372	24.0	10.3	81	1860	LA	
23										248.00	2.2	6.4	372	24.0	11.7	82	1160	LA	
24										265.50	2.5	6.4	408	24.0	13.0	72	1220	LA	
25										255.50	2.3	6.4	414	24.0	12.1	75	870	LA	
26										256.00	2.2	6.5	414	24.0	11.3	79	1240	LA	
27										247.00	1.7	6.5	405	23.5	12.0	77	760	LA	
28										234.25	2.5	6.3	414	24.0	11.5	84	720	LA	
29										264.75	2.0	6.4	414	24.0	11.3	85	740	LA	
30										252.00	2.2	6.4	414	24.0	11.1	79	860	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		7399.50	57.9	193.9	10914	710.8	323.1	2393	31287		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		264.65	1.9	6.5	364	23.7	10.8	80	1043		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

MONITORING PERIOD:				FROM		TO	
YEAR	MONTH	DAY	YEAR	MONTH	DAY		
2013	07	01	2013	07	31		

DISCHARGE NUMBER <b>001</b>	PERMIT NUMBER <b>MI00022276</b>
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CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	
1										270.50	2.2	6.4	414	24.0	10.9	76	920	LA	
2										257.30	1.9	6.6	414	24.0	10.0	79	730	LA	
3										218.80	1.8	6.8	333	21.5	10.1	83	550	LA	
4										217.00	2.1	6.6	291	24.0	9.1	80	650	LA	
5										225.00	2.1	6.6	291	23.5	10.6	77	620	LA	
6										207.00	2.0	6.3	274	23.2	11.6	77	540	LA	
7										193.00	2.2	6.6	221	24.0	9.3	76	707	LA	
8										222.02	2.0	6.6	217	24.0	12.3	74	560	LA	
9										226.00	1.7	6.5	330	24.0	11.0	76	680	LA	
10										237.00	2.5	6.4	330	24.0	13.1	75	870	LA	
11										238.00	2.1	6.1	330	24.0	12.4	79	560	LA	
12										254.00	2.4	6.5	291	24.0	12.2	78	860	LA	
13										248.00	2.2	6.5	291	24.0	12.8	82	900	LA	
14										257.00	2.2	6.5	291	24.0	12.3	81	740	LA	
15										239.00	2.1	6.4	291	24.0	11.9	78	1620	LA	
16										269.00	2.1	6.5	291	24.0	12.7	78	1240	LA	
17										263.95	2.8	6.2	291	24.0	13.2	75	1190	LA	
18										277.05	2.1	6.5	291	24.0	12.1	78	400	LA	
19										245.00	2.4	6.4	291	24.0	8.8	85	930	LA	
20										271.00	2.4	6.3	291	24.0	11.8	79	1740	LA	
21										277.00	3.2	6.2	291	24.0	12.6	76	1190	LA	
22										267.00	2.6	6.4	291	24.0	11.8	78	1300	LA	
23										248.00	2.1	6.5	330	24.0	11.2	79	790	LA	
24										252.00	2.4	6.4	330	24.0	11.4	79	620	LA	
25										247.00	2.2	6.4	330	24.0	11.7	87	660	LA	
26										263.00	1.8	6.2	330	24.0	12.1	79	820	LA	
27										230.00	2.4	6.3	330	24.0	11.5	84	990	LA	
28										258.00	2.3	6.6	330	24.0	11.4	84	830	LA	
29										227.00	2.5	6.4	330	23.0	11.4	79	650	LA	
30										244.00	2.0	6.6	330	24.0	10.8	81	700	LA	
31										241.00	2.3	6.6	330	24.0	11.0	80	740	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		7589.62	69.1	199.9	9616	739.2	355.1	2452	26297		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		244.83	2.2	6.4	310	23.8	11.5	79	848		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2013	08	01	2013 08 31

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	
Day																			
1										239.00	2.5	6.4	330	24.0	10.9	81	590	LA	
2										238.00	1.1	6.5	330	24.0	11.5	85	600	LA	
3										236.00	2.1	6.6	330	24.0	11.4	80	650	LA	
4										245.00	2.7	6.4	330	24.0	12.4	79	780	LA	
5										218.00	2.3	6.4	330	24.0	11.4	78	550	LA	
6										227.00	2.2	6.5	330	24.0	11.9	82	650	LA	
7										213.00	2.6	6.2	282	20.5	13.2	83	1020	LA	
8										258.93	2.6	6.3	330	24.0	13.1	78	1100	LA	
9										211.07	2.3	6.5	278	21.0	12.5	83	870	LA	
10										235.00	2.2	6.4	284	24.0	8.3	83	690	LA	
11										217.00	1.5	6.4	305	23.0	5.2	84	620	LA	
12										215.00	2.0	6.4	301	22.8	11.2	76	610	LA	
13										224.50	2.3	6.3	299	23.0	13.6	78	780	LA	
14										227.50	2.5	6.6	312	24.0	10.3	80	770	LA	
15										262.00	1.7	6.7	312	24.0	11.5	81	810	LA	
16										267.00	2.2	6.6	312	24.0	11.8	79	770	LA	
17										263.00	2.4	6.4	312	24.0	11.6	83	1070	LA	
18										278.50	2.6	6.6	312	24.0	11.2	81	890	LA	
19										272.50	0.6	6.7	312	24.0	11.8	78	910	LA	
20										244.00	2.2	6.5	312	24.0	12.1	82	880	LA	
21										253.00	2.1	6.4	312	24.0	12.6	77	970	LA	
22										258.00	1.2	6.6	312	24.0	12.7	80	660	LA	
23										249.10	2.6	6.4	324	24.0	14.3	76	1650	LA	
24										274.90	2.0	6.3	312	24.0	9.9	85	860	LA	
25										262.00	1.2	6.5	330	24.0	12.1	84	950	LA	
26										234.00	2.0	6.5	330	24.0	12.2	78	680	LA	
27										261.00	2.1	6.5	330	24.0	10.6	79	810	LA	
28										251.08	2.5	6.4	330	24.0	11.2	82	860	LA	
29										258.92	1.9	6.4	330	24.0	12.2	85	740	LA	
30										230.00	2.0	6.5	289	21.0	11.9	80	860	LA	
31										274.00	1.6	6.4	330	24.0	13.6	81	1360	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		7598.00	63.8	200.3	9772	731.3	360.2	2501	26010		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		245.10	2.1	6.5	315	23.6	11.6	81	839		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2013	09	01	2013 09 30

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1										262.25	2.2	6.6	291	24.0	12.2	82	770		LA
2										228.75	1.6	6.4	266	22.0	13.0	78	690		LA
3										246.00	1.9	6.7	291	24.0	11.5	81	720		LA
4										252.00	2.1	6.5	301	24.0	12.4	76	670		LA
5										147.00	2.1	6.7	146	11.5	11.6	79	1600		LA
6										253.00	2.1	6.4	270	24.0	11.9	78	1030		LA
7										237.00	1.4	6.5	270	24.0	11.3	83	610		LA
8										245.00	2.3	6.5	270	24.0	12.6	79	650		LA
9										239.00	1.3	6.7	270	24.0	11.3	76	570		LA
10										237.00	2.0	6.5	270	24.0	12.2	81	720		LA
11										252.70	1.8	6.4	270	24.0	12.9	78	690		LA
12										246.30	1.7	6.6	270	24.0	10.7	81	580		LA
13										259.50	1.8	6.6	270	24.0	10.3	80	640		LA
14										236.50	1.7	6.4	270	24.0	12.2	83	790		LA
15										249.00	2.0	6.4	270	24.0	11.4	84	690		LA
16										241.00	2.5	6.2	259	23.0	13.0	78	850		LA
17										249.00	1.8	6.5	270	24.0	12.8	79	890		LA
18										275.00	2.0	6.4	270	24.0	12.8	80	1530		LA
19										290.00	1.9	6.4	270	24.0	12.0	79	1050		LA
20										258.00	2.0	6.4	270	24.0	11.6	81	930		LA
21										259.25	1.0	6.5	270	24.0	11.8	83	620		LA
22										248.75	2.6	6.3	270	24.0	12.0	79	1710		LA
23										232.00	1.9	6.4	270	24.0	12.2	78	910		LA
24										263.00	2.8	6.2	270	24.0	13.2	76	1660		LA
25										235.00	2.4	6.4	270	24.0	11.7	79	1030		LA
26										240.00	1.9	6.4	270	24.0	12.1	80	650		LA
27										252.50	1.9	6.5	270	24.0	12.5	77	990		LA
28										233.77	1.7	6.6	270	24.0	12.1	81	560		LA
29										223.77	1.8	6.5	259	23.0	12.5	81	873		LA
30										226.23	1.7	6.8	259	23.0	11.5	78	640		LA
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		7328.00	57.9	194.4	8012	702.5	361.3	2388	26313		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		244.27	1.9	6.5	267	23.4	12.0	80	877		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEES NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEES ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY STATE ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2013	10	01	2013 10 31

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	Kgal	Pct	pH			Pct	Pct	mg/L		Kgal	Pct	pH			Pct	Pct	mg/L		
Day																			
1										233.00	1.9	6.5	270	24.0	12.1	77	700	LA	
2										254.00	2.3	6.2	270	24.0	11.8	82	850	LA	
3										252.50	1.6	6.5	270	24.0	12.2	79	760	LA	
4										270.50	1.7	6.5	270	24.0	11.8	79	860	LA	
5										261.89	1.8	6.5	270	24.0	11.6	80	1130	LA	
6										273.11	1.9	6.4	270	24.0	11.6	85	1030	LA	
7										274.00	2.0	6.6	270	24.0	10.7	80	1140	LA	
8										264.00	1.1	6.5	270	24.0	11.9	84	500	LA	
9										245.00	1.8	6.4	270	24.0	11.3	85	730	LA	
10										254.00	2.2	6.5	270	24.0	10.1	83	700	LA	
11										259.00	2.0	6.5	270	24.0	12.2	82	850	LA	
12										267.50	1.7	6.6	270	24.0	12.3	82	1080	LA	
13										275.50	2.0	6.4	270	24.0	11.8	80	920	LA	
14										266.00	1.7	6.6	270	24.0	12.3	76	840	LA	
15										275.75	1.5	6.6	77	20.0	11.6	82	1130	LA	
16										280.25	2.3	6.3	155	24.0	11.6	84	1440	LA	
17										266.00	2.4	6.5	165	24.0	12.5	81	1340	LA	
18										278.00	1.7	6.4	173	24.0	12.0	81	1680	LA	
19										247.50	1.8	6.5	207	24.0	10.7	86	680	LA	
20										260.50	1.8	6.4	207	24.0	11.5	85	960	LA	
21										262.00	2.5	6.4	224	24.0	11.1	79	1720	LA	
22										277.00	2.0	6.5	228	24.0	11.1	84	1860	LA	
23										254.00	2.5	6.4	225	23.7	10.5	81	1100	LA	
24										258.00	1.2	6.6	228	24.0	11.9	77	4140	LA	
25										251.00	1.8	6.4	228	24.0	12.7	77	1500	LA	
26										212.10	1.6	6.5	214	22.5	11.1	83	980	LA	
27										243.40	2.4	6.3	247	24.0	10.4	83	900	LA	
28										237.50	2.5	6.4	252	23.0	9.8	84	1000	LA	
29										277.00	2.4	6.5	243	23.7	12.1	77	1170	LA	
30										267.00	2.0	6.2	249	24.0	10.7	81	1040	LA	
31										240.00	1.7	6.5	249	24.0	13.2	78	890	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	8037.00	59.8	200.1	7351	736.9	358.2	2517	35620		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0	0	259.26	1.9	6.5	237	23.8	11.6	81	1149		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2013	11	01	2013 11 30

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	
Units	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1										262.00	1.8	6.4	236	22.8	12.3	80	1070	LA	
2										262.00	1.5	6.4	249	24.0	12.4	83	700	LA	
3										294.00	2.3	6.4	266	24.0	11.6	82	1080	LA	
4										256.00	1.3	6.6	270	24.0	11.0	80	980	LA	
5										263.90	1.8	6.5	291	24.0	11.6	81	740	LA	
6										285.90	1.6	6.4	290	24.0	12.1	81	900	LA	
7										273.20	1.8	6.6	291	24.0	11.7	81	1200	LA	
8										218.00	1.4	6.5	216	19.0	12.3	80	1000	LA	
9										295.70	2.1	6.5	270	24.0	11.5	83	1250	LA	
10										241.23	2.5	6.3	236	21.0	12.3	81	1540	LA	
11										253.42	2.1	6.5	268	24.0	12.4	78	770	LA	
12										241.51	1.9	6.4	270	24.0	12.2	84	970	LA	
13										243.00	1.5	6.5	270	24.0	10.5	86	810	LA	
14										280.70	1.9	6.4	270	24.0	12.2	81	1050	LA	
15										258.80	0.7	6.5	270	24.0	12.5	83	1270	LA	
16										242.50	2.2	6.5	270	24.0	11.7	85	1190	LA	
17										257.50	2.8	6.3	264	23.5	10.4	80	3200	LA	
18										279.10	2.3	6.5	270	24.0	12.0	78	1040	LA	
19										247.90	1.9	6.6	270	24.0	11.5	87	1210	LA	
20										245.00	2.6	6.4	270	24.0	11.1	82	830	LA	
21										270.40	2.6	6.6	270	24.0	12.2	80	950	LA	
22										267.87	1.8	6.6	270	24.0	12.7	80	880	LA	
23										265.00	1.9	6.5	270	24.0	12.4	80	980	LA	
24										251.00	0.8	6.5	270	24.0	11.9	79	750	LA	
25										250.65	1.6	6.5	270	24.0	12.2	82	660	LA	
26										208.37	1.8	6.7	229	20.4	12.1	79	690	LA	
27										224.70	1.8	6.5	270	24.0	10.3	82	520	LA	
28										187.00	2.0	6.6	237	21.0	11.5	81	520	LA	
29										223.00	2.9	6.6	270	24.0	12.4	80	1060	LA	
30										208.70	2.1	6.6	270	24.0	12.1	83	720	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		7531.05	57.3	194.9	7933	703.7	355.1	2442	30530		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		251.04	1.9	6.5	264	23.5	11.8	81	1018		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>M100022276</b>	
MONITORING PERIOD:			
FROM	TO	YEAR	MONTH
2013	12	01	2013
12	01	2013	12
31			

CENTRIFUGE #1												CENTRIFUGE #2											
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate	Output	Feed Sludge	Feed Solids	Feed Sludge	Feed Solids	Polymer	Operation	Cake Solids	Cake Vol.	Centrate	Output	Feed Sludge	Feed Solids	Feed Sludge	Feed Solids
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	To	KGal	Pct	pH	pH	lbs	Hours	Pct	Pct	mg/L	To	KGal	Pct	pH	pH
Day																							
1																							
2																							
3																							
4																							
5																							
6	28.63	1.7	6.6	98	3.2	22.2	75	370	1														
7	254.30	1.7	6.5	589	23.8	20.3	78	430	1														
8	256.70	2.7	6.3	747	24.0	21.1	81	330	1														
9	182.70	2.3	6.3	534	17.0	20.8	75	540	1														
10	246.30	2.3	6.3	711	23.0	22.7	78	1290	1														
11	155.50	2.6	6.1	453	15.0	22.9	74	760	1														
12	264.00	2.0	6.5	805	24.0	19.8	77	660	1														
13	249.75	1.9	6.4	800	24.0	20.6	78	435	1														
14	211.55	2.3	6.5	673	19.5	20.1	78	433	1														
15	245.70	2.1	6.4	828	23.5	20.9	77	1110	1														
16	258.00	2.6	6.3	870	24.0	19.8	76	580	1														
17	225.50	2.3	6.4	824	21.2	20.1	78	733	1														
18	254.50	2.6	6.3	922	24.0	20.4	76	520	1														
19	212.00	1.6	7.3	1102	24.0	20.6	69	560	1														
20	234.70	2.8	7.2	1147	24.0	22.3	70	480	1														
21	254.30	2.4	7.1	1161	24.0	22.5	73	320	1														
22	223.00	3.4	6.5	1014	21.0	25.7	71	370	1														
23	253.00	3.0	6.2	1098	24.0	25.9	73	1340	1														
24	275.40	3.1	6.5	1050	24.0	25.7	82	810	1														
25	272.00	2.5	6.6	1091	24.0	27.5	74	260	1														
26	278.00	2.9	6.6	1098	24.0	23.7	72	610	1														
27	263.50	2.1	7.4	997	24.0	21.0	69	453	1														
28	264.50	2.5	7.4	1063	24.0	24.6	69	280	1														
29	276.00	3.1	6.8	1077	24.0	24.9	70	290	1														
30	264.00	2.2	6.7	1077	24.0	22.6	72	330	1														
31	278.40	2.2	6.7	1077	24.0	21.8	75	360	1														
TOTAL	6181.93	62.9	171.9	22906	575.2	580.5	1940	14654		0.00	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0				
AVERAGE	237.77	2.4	6.6	881	22.1	22.3	75	564		0.00	0.0	0.0	0.0	0	0.0	0.0	0.0	0	0				

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	MI00022276
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2013	12	01	2013 12 31

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	
Units	KGal	Pct	pH			Pct	Pct	mg/L	MHF	KGal	Pct	pH			Pct	Pct	mg/L	MHF	
Day																			
1										234.30	2.0	6.7	270	24.0	12.2	79	580	L	
2										204.00	1.8	6.7	270	24.0	11.0	78	610	L	
3										206.00	2.0	6.6	268	23.8	12.2	81	573	L	
4										222.60	1.7	6.5	270	24.0	12.1	84	610	L	
5										248.50	2.0	6.5	270	24.0	12.1	81	670	L	
6										196.15	1.8	6.6	202	18.0	12.1	81	860	L	
7										0.00									
8										0.00									
9										0.00									
10										7.09			38	3.0				L	
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		1318.64	11.3	39.6	1588	140.8	71.7	484	3903		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		131.86	1.9	6.6	227	20.1	12.0	81	651		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
FROM	TO	YEAR	DAY
2014 01	2014 01	2014	31

CENTRIFUGE # 1										CENTRIFUGE # 2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1	254.60	2.0	6.7	1077	24.0	21.6	75	500	1										
2	260.00	2.4	6.5	1052	24.0	21.9	74	300	1										
3	274.88	1.9	6.7	912	24.0	23.7	76	265	1										
4	285.26	1.8	6.5	912	24.0	22.8	79	300	1										
5	280.86	2.2	6.6	912	24.0	21.6	76	260	1										
6	282.97	1.9	6.6	936	24.0	21.0	75	350	1										
7	252.23	1.6	6.5	800	23.0	21.4	77	420	1										
8	264.80	1.4	6.4	828	24.0	22.1	76	260	1										
9	259.00	2.1	6.6	953	24.0	22.0	76	390	1										
10	260.12	1.9	6.6	867	24.0	20.6	77	1940	1										
11	218.88	1.2	6.6	781	21.0	21.3	77	350	1										
12	265.00	2.8	6.4	863	24.0	21.1	76	690	1										
13	248.20	2.4	6.3	774	21.5	20.8	77	420	1										
14	264.80	1.8	6.6	922	24.0	20.8	76	1960	1										
15	276.00	1.7	6.3	813	24.0	20.8	77	285	1										
16	272.00	1.9	6.6	727	24.0	21.7	75	300	1										
17	269.00	1.7	6.6	863	23.5	22.9	75	327	1										
18	292.93	1.7	6.6	993	24.0	20.4	78	330	1										
19	287.07	2.4	6.6	957	24.0	21.2	76	330	1										
20	300.00	1.8	6.7	947	24.0	21.0	74	200	1										
21	219.70	1.7	6.7	756	19.5	21.6	75	280	1										
22	289.30	1.3	6.8	870	24.0	20.9	74	250	1										
23	297.00	1.6	6.7	906	24.0	20.1	75	210	1										
24	284.00	2.2	6.4	954	24.0	20.7	77	455	1										
25	223.50	1.5	6.5	814	20.5	20.2	86	1360	1										
26	285.50	2.3	6.4	954	24.0	20.6	77	300	1										
27	289.00	1.8	6.6	954	24.0	21.0	75	360	1										
28	279.00	1.7	6.5	1035	24.0	21.1	81	360	1										
29	294.00	1.6	6.5	1035	24.0	20.2	78	1030	1										
30	303.00	1.6	6.5	1054	24.0	21.1	82	630	1										
31	183.00	1.9	6.5	673	15.0	21.5	77	345	1										
TOTAL	8315.60	57.8	203.1	27894	720.0	659.7	2379	15757		0.00	0.0	0.0	0	0.0	0.0	0	0		
AVERAGE	268.25	1.9	6.6	900	23.2	21.3	77	508		0.00	0.0	0.0	0	0.0	0.0	0	0		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



## CENTRIFUGE 1 AND 2

BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	PERMIT NUMBER
001	MI00022276

CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	
Day																			
1	303.01	2.0	6.2	1084	24.0	20.6	79	920	1										
2	301.49	2.4	6.2	1119	24.0	20.7	78	480	1										
3	301.50	1.9	6.4	1119	24.0	19.0	78	1220	1										
4	123.55	1.6	6.4	396	8.5	20.4	77	487	1										
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
TOTAL	1029.55	7.9	25.2	3718	80.5	80.7	312	3107		0.00	0.0	0.0	0	0.0	0.0	0	0		
AVERAGE	257.39	2.0	6.3	930	20.1	20.2	78	777		0.00	0.0	0.0	0	0.0	0.0	0	0		

DATE \_\_\_\_\_

**RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP**

## CENTRIFUGE 3 &amp; 4

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	

MONITORING PERIOD:		FROM		TO	
YEAR	MONTH	DAY	YEAR	MONTH	DAY
2014	02	01	2014	02	28

CENTRIFUGE #3																			CENTRIFUGE #4									
	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF										
Day																												
1																												
2																												
3																												
4	106.92	2.6	6.3	457	10.5	19.5	76	427	1																			
5	277.63	2.1	6.4	1142	24.0	20.7	78	275	1																			
6	278.67	1.9	6.3	1140	24.0	21.1	76	400	1																			
7	285.53	2.2	6.6	1147	24.0	22.5	75	513	1																			
8	294.10	2.0	6.7	1142	24.0	22.0	77	250	1																			
9	294.00	2.4	6.5	1140	24.0	20.6	77	295	1																			
10	283.80	2.4	6.5	1101	24.0	22.7	76	450	1																			
11	253.00	2.5	6.3	990	22.0	24.5	76	437	1																			
12	287.00	2.5	6.3	1077	24.0	25.2	77	495	1																			
13	274.00	2.7	6.3	1063	24.0	23.2	78	533	1																			
14	260.65	1.8	6.4	1036	24.0	24.5	73	420	1																			
15	262.85	2.1	6.6	1047	24.0	22.2	75	310	1																			
16	236.50	1.8	6.6	1077	24.0	21.3	74	300	1																			
17	227.00	1.9	6.8	1037	24.0	23.8	74	240	1																			
18	233.80	1.8	6.7	1035	24.0	22.4	76	225	1																			
19	230.00	2.5	6.2	1035	24.0	22.3	77	275	1																			
20	247.00	1.3	6.5	993	24.0	22.1	76	260	1																			
21	286.50	2.2	6.1	976	24.0	25.0	75	385	1																			
22	284.99	1.8	6.3	972	24.0	25.2	78	230	1																			
23	290.51	1.7	6.5	972	24.0	23.0	77	243	1																			
24	294.00	1.6	6.5	960	24.0	23.4	76	230	1																			
25	317.00	1.4	6.5	1044	24.0	23.3	78	223	1																			
26	332.05	2.0	6.2	1018	24.0	22.1	78	325	1																			
27	331.95	2.4	6.2	1035	24.0	21.3	78	470	1																			
28	297.96	1.9	6.4	880	21.5	22.5	74	395	1																			
TOTAL	6767.41	51.5	160.7	25516	582.0	566.4	1905	8606		0.00	0.0	0.0	0	0.0	0.0	0	0											
AVERAGE	270.70	2.1	6.4	1021	23.3	22.7	76	344		0.00	0.0	0.0	0	0.0	0.0	0	0											
7-day avg used dd to loss of sample during analysis																												
PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT																		
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP																												
										DATE																		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLIE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLIE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR <b>2014</b>	MONTH <b>03</b>	DAY <b>01</b>	TO YEAR <b>2014</b> MONTH <b>03</b> DAY <b>31</b>

	CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To		Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF		KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																				
1	303.19	1.7	6.4	992	23.0	22.5	77	480	1											
2	345.85	1.9	6.4	1042	24.0	22.5	76	235	1											
3	348.00	2.0	6.6	1094	24.0	22.7	74	345	1											
4	337.30	1.7	6.5	1054	24.0	23.4	81	268	1											
5	323.70	1.8	6.4	993	24.0	23.7	75	290	1											
6	326.20	1.5	6.4	993	24.0	22.1	74	330	1											
7	325.80	1.7	6.7	1027	24.0	24.3	74	263	1											
8	332.00	1.7	6.6	1035	24.0	25.3	73	260	1											
9	304.00	1.9	6.5	1035	24.0	25.3	74	260	1											
10	328.00	1.9	6.6	1035	24.0	23.0	74	500	1											
11	322.50	1.9	6.6	1061	24.0	23.6	69	332	1											
12	319.50	1.2	6.5	1024	24.0	24.4	69	320	1											
13	304.21	1.1	6.7	1054	24.0	24.9	72	190	1											
14	315.80	1.7	6.6	1043	24.0	24.0	74	300	1											
15	300.70	1.6	6.6	1035	24.0	22.8	75	320	1											
16	307.52	1.9	6.6	1035	24.0	22.3	75	300	1											
17	306.06	1.7	6.8	1035	24.0	23.2	71	248	1											
18	310.42	1.6	6.6	1035	24.0	22.9	73	270	1											
19	286.80	2.1	6.6	964	23.0	22.2	73	315	1											
20	292.35	1.6	6.8	1037	24.0	22.8	74	360	1											
21	239.35	2.3	6.6	863	20.0	22.2	75	260	1											
22	298.50	1.7	6.6	1035	24.0	22.0	76	340	1											
23	319.00	2.4	6.4	1035	24.0	21.7	74	340	1											
24	316.37	1.6	6.8	1035	24.0	21.2	73	280	1											
25	317.63	1.5	6.7	1039	24.0	21.9	75	310	1											
26	306.00	2.8	6.4	1018	23.5	21.3	74	300	1											
27	315.90	1.5	6.7	1111	24.0	21.5	76	360	1											
28	334.10	1.4	6.6	1119	24.0	20.7	77	630	1											
29	341.45	1.6	6.6	1119	24.0	22.5	81	290	1											
30	336.00	1.7	6.6	1145	24.0	21.5	75	530	1											
31	350.00	1.6	6.8	1182	24.0	23.8	72	200	1											
TOTAL	9814.20	54.3	204.3	32324	737.5	708.2	2305	10026			0.00	0.0	0.0	0	0.0	0.0	0	0		
AVERAGE	316.59	1.8	6.6	1043	23.8	22.8	74	323			0.00	0.0	0.0	0	0.0	0.0	0	0		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

MONITORING PERIOD:		FROM	TO	
YEAR	MONTH	DAY	YEAR	MONTH
2014	04	01	2014	04
			DAY	
			30	

DISCHARGE NUMBER <b>001</b>	PERMIT NUMBER <b>MI00022276</b>
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CENTRIFUGE #3												CENTRIFUGE #4											
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Feed Solids	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Feed Solids
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	pH
Day																							
1	325.20	1.2	6.6	1108	22.5	24.1	74	265	1														
2	353.76	1.7	6.5	1182	24.0	24.8	75	285	1														
3	334.04	1.5	6.8	1167	23.5	23.6	74	280	1														
4	323.50	1.6	6.7	1190	24.0	21.9	75	270	1														
5	297.00	1.5	6.6	1167	24.0	21.1	77	250	1														
6	299.50	1.2	6.6	1267	24.0	21.4	74	270	1														
7	291.05	1.7	6.5	1253	24.0	22.2	74	340	1														
8	257.95	1.4	6.6	1021	21.0	21.8	76	440	1														
9	364.00	3.0	6.2	1161	24.0	22.9	75	340	1														
10	388.10	1.5	6.6	1200	24.0	23.8	71	410	1														
11	350.80	2.0	6.4	1200	24.0	23.1	73	550	1														
12	373.60	1.5	6.9	1200	24.0	21.4	75	390	1														
13	364.08	1.6	6.7	1200	24.0	20.4	76	350	1														
14	324.42	1.5	6.8	1175	23.5	22.3	73	295	1														
15	336.00	1.5	6.8	1144	24.0	23.0	75	240	1														
16	338.60	1.5	6.6	1140	24.0	22.8	75	250	1														
17	301.40	1.2	6.6	1100	22.8	22.8	76	260	1														
18	371.10	1.5	6.5	1228	24.0	21.6	75	690	1														
19	375.20	1.3	6.6	1242	24.0	20.6	77	430	1														
20	366.70	1.7	6.5	1242	24.0	20.5	76	520	1														
21	380.00	1.2	6.6	1288	24.0	21.4	74	790	1														
22	355.00	1.5	6.5	1347	24.0	20.9	77	560	1														
23	374.95	1.8	6.4	1347	24.0	22.0	75	1000	1														
24	330.05	1.6	6.5	1164	20.8	23.3	75	450	1														
25	361.00	1.7	6.2	1272	23.0	21.3	76	680	1														
26	330.00	1.6	6.5	1132	22.0	24.0	77	860	1														
27	386.40	1.8	6.5	1312	24.0	23.8	86	660	1														
28	367.60	1.7	6.3	1347	23.0	23.8	76	550	1														
29	288.00	1.6	6.5	1061	19.0	21.3	81	435	1														
30	230.04	1.7	6.4	850	17.0	23.3	78	275	1														
TOTAL	10141.04	47.8	196.5	35707	694.0	671.2	2271	13385		167.60	3.5	13.1	252	19.0	25.1	153	8930						
AVERAGE	338.03	1.6	6.6	1190	23.1	22.4	76	446		167.60	1.8	6.6	252	19.0	12.6	77	4465						

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY / STATE / ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2014	05	01	2014 05 31

CENTRIFUGE # 3																					CENTRIFUGE # 4										
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To													
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF													
Day																															
1										331.40	1.6	6.7	359	24.0	10.9	80	1040	LA													
2										385.10	1.4	6.5	389	24.0	12.2	79	1400	LA													
3										386.40	1.7	6.5	372	24.0	11.1	82	1460	LA													
4										346.50	2.0	6.1	372	24.0	11.2	80	1540	LA													
5										348.25	1.8	6.4	372	24.0	10.2	81	1300	LA													
6										342.75	1.5	6.3	372	24.0	9.9	81	830	LA													
7										333.00	2.0	6.4	372	24.0	11.2	81	1850	LA													
8										325.15	1.9	6.4	372	24.0	11.3	79	1780	LA													
9										280.14	1.8	6.6	372	24.0	11.3	78	1520	LA													
10										291.12	1.6	6.5	372	24.0	10.7	81	1050	LA													
11										279.83	1.7	6.3	372	24.0	10.2	80	1080	LA													
12										268.37	2.0	6.3	372	24.0	12.7	74	760	LA													
13										294.38	2.2	6.3	372	24.0	13.5	83	900	LA													
14										274.71	2.2	6.2	373	24.0	11.8	77	1320	LA													
15										259.94	1.2	6.3	391	24.0	11.3	83	730	LA													
16										280.75	1.2	6.4	365	23.0	11.7	78	560	LA													
17										321.86	1.5	6.3	291	24.0	11.8	79	660	LA													
18										307.39	2.0	6.1	337	24.0	10.4	82	833	LA													
19										316.99	1.7	6.5	304	24.0	11.8	77	590	LA													
20										334.06	1.5	6.4	291	24.0	11.4	80	900	LA													
21										339.00	2.0	6.3	291	24.0	10.6	78	990	LA													
22										328.88	1.6	6.3	291	24.0	9.6	80	910	LA													
23										321.56	1.8	6.2	291	24.0	10.2	84	790	LA													
24										335.90	1.8	6.5	291	24.0	12.0	79	960	LA													
25										335.05	2.1	6.5	291	24.0	11.8	80	940	LA													
26										335.85	2.4	6.6	291	24.0	12.0	75	1120	LA													
27										310.10	1.7	6.4	285	23.5	11.7	75	1550	LA													
28										286.00	2.4	6.4	271	22.0	11.3	77	1560	LA													
29										312.90	2.1	6.7	330	24.0	10.7	81	1160	LA													
30										287.15	2.0	6.7	330	24.0	10.8	79	1030	LA													
31										281.95	1.7	6.7	330	24.0	11.3	78	710	LA													
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	9782.42	56.1	198.8	10484	740.5	348.6	2461	33823														
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0	0	315.56	1.8	6.4	338	23.9	11.2	79	1091														

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
	DATE



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	
CITY OF BATTLE CREEK - WWTP	
PERMITTEES ADDRESS	
2000 WEST RIVER ROAD	
CITY, STATE, ZIP CODE	
BATTLE CREEK, MICHIGAN 49037	

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2014	06	01	2014 06 30

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L		
Day																			
1										252.20	1.8	6.5	330	24.0	9.6	80	630		LA
2										241.80	2.0	6.7	262	19.0	10.5	76	870		LA
3										321.00	4.5	6.1	344	24.0	13.8	69	1920		LA
4										286.15	2.0	6.6	337	24.0	10.8	76	730		LA
5										282.40	1.7	6.6	330	24.0	11.7	79	890		LA
6										267.45	1.9	6.6	327	23.8	11.8	78	870		LA
7										289.70	1.8	6.6	330	24.0	11.0	77	1100		LA
8										278.90	2.3	6.5	330	24.0	12.5	81	920		LA
9										290.60	2.2	6.4	330	24.0	11.5	76	1770		LA
10										265.40	2.2	6.3	330	24.0	10.9	81	1000		LA
11										277.01	1.8	6.4	330	24.0	11.0	80	940		LA
12										283.00	2.2	6.2	330	24.0	12.1	77	1930		LA
13										265.00	1.8	6.4	317	23.0	11.1	79	940		LA
14										265.40	1.9	6.5	330	24.0	10.6	78	620		LA
15										251.60	2.3	6.4	330	24.0	11.2	73	800		LA
16										247.00	2.0	6.3	330	24.0	11.4	76	520		LA
17										261.00	1.8	6.3	324	23.0	10.9	77	890		LA
18										302.70	2.3	6.4	330	24.0	11.1	77	1360		LA
19										276.30	1.4	6.3	330	24.0	11.2	75	1160		LA
20										281.67	2.3	6.3	330	24.0	11.9	76	950		LA
21										262.98	1.7	6.3	330	24.0	10.3	84	810		LA
22										253.35	2.4	6.4	330	24.0	12.8	76	890		LA
23										270.00	2.3	6.3	330	24.0	12.0	76	910		LA
24										302.00	2.8	6.0	330	24.0	13.6	77	1350		LA
25										293.61	2.3	6.4	330	24.0	12.2	78	860		LA
26										264.30	2.1	6.3	330	24.0	13.0	77	1020		LA
27										274.50	1.6	6.4	330	24.0	12.0	80	760		LA
28										267.50	1.8	6.3	330	24.0	11.0	79	640		LA
29										264.50	2.2	6.4	330	24.0	11.7	80	1060		LA
30										271.00	1.9	6.4	330	24.0	10.4	78	490		LA
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		8200.02	63.3	191.6	9831	712.8	345.6	2326	29600		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		273.33	2.1	6.4	328	23.8	11.5	78	987		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2014	07	01	2014 07 31

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	Kgal	Pct	pH			Pct	Pct	mg/L	MHF	Kgal	Pct	pH			Pct	Pct	mg/L	MHF	
Day																			
1										247.10	2.0	6.7	330	24.0	12.3	81	710		LA
2										220.00	1.9	6.5	330	24.0	10.0	82	660		LA
3										226.00	2.1	6.6	330	24.0	13.0	77	560		LA
4										221.50	1.6	6.6	330	24.0	8.0	81	555		LA
5										202.60	1.7	6.7	330	24.0	12.9	77	450		LA
6										181.90	2.0	6.6	303	22.0	11.9	76	405		LA
7										142.50	0.4	6.8	207	15.0	6.3	78	190		LA
8										233.00	1.9	6.5	285	22.0	10.5	76	1080		LA
9										223.00	2.7	6.7	242	23.5	13.3	70	700		LA
10										216.50	2.2	6.4	263	24.0	10.5	77	720		LA
11										222.50	2.2	6.4	285	24.0	7.8	80	660		LA
12										249.42	1.6	5.6	291	24.0	11.5	77	540		LA
13										240.08	2.2	6.4	277	24.0	12.4	79	600		LA
14										269.17	2.2	6.4	291	24.0	11.9	76	690		LA
15										266.33	1.6	6.5	291	24.0	10.9	78	890		LA
16										277.00	2.2	6.5	291	24.0	12.8	77	1050		LA
17										173.50	1.8	6.1	164	13.5	12.7	77	1840		LA
18										254.80	2.5	6.0	291	24.0	9.3	83	890		LA
19										259.08	2.0	6.2	291	24.0	10.4	79	720		LA
20										262.12	2.4	6.2	291	24.0	10.9	79	760		LA
21										271.50	2.1	6.5	291	24.0	11.6	78	880		LA
22										272.11	2.2	6.4	291	24.0	10.8	80	1030		LA
23										270.89	1.7	6.4	291	24.0	11.5	82	860		LA
24										270.50	2.4	6.4	291	24.0	11.5	79	820		LA
25										271.00	2.0	6.5	291	24.0	11.4	85	980		LA
26										266.50	2.0	6.5	291	24.0	9.5	81	920		LA
27										277.18	2.3	6.1	291	24.0	11.1	80	1020		LA
28										273.20	2.3	6.4	291	24.0	12.5	74	1960		LA
29										255.00	2.2	6.4	291	24.0	11.6	82	980		LA
30										265.10	2.7	6.3	291	24.0	9.8	79	1210		LA
31										265.90	1.7	6.6	291	24.0	10.3	82	840		LA
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	7546.98	62.8	198.9	8914	720.0	340.9	2442	26190		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0	0	243.45	2.0	6.4	288	23.2	11.0	79	845		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

## CENTRIFUGE 3 &amp; 4

BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		M100022276	
MONITORING PERIOD:			
YEAR	MONTH	FROM DAY	TO YEAR MONTH DAY
2014	08	01	2014 08 31

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Solids Pct	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Solids Pct	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH					mg/L		KGal	Pct	pH					mg/L		
Day																			
1										242.70	2.3	6.5	291	24.0	11.5	82	760	LA	
2										221.50	1.9	6.6	205	18.0	12.0	84	1480	LA	
3										273.80	2.4	6.7	291	24.0	11.8	79	1480	LA	
4										288.00	2.0	6.7	312	24.0	11.8	78	760	LA	
5										263.00	1.7	6.8	279	23.0	12.5	78	790	LA	
6										260.60	2.7	6.6	291	24.0	11.9	79	2500	LA	
7										272.40	2.0	6.8	291	24.0	11.3	78	820	LA	
8										259.00	2.1	6.6	282	23.2	11.9	81	920	LA	
9										269.55	1.9	6.7	291	24.0	10.4	83	1260	LA	
10										288.45	2.4	6.5	291	24.0	10.4	83	660	LA	
11										260.50	2.1	6.7	291	24.0	10.8	78	540	LA	
12										288.00	2.2	6.6	311	24.0	12.6	79	1230	LA	
13										264.50	2.9	6.5	281	21.5	10.9	79	840	LA	
14										289.00	1.9	6.6	286	24.0	12.8	78	680	LA	
15										276.00	2.5	6.6	291	24.0	11.3	80	515	LA	
16										271.90	1.6	6.6	291	24.0	10.7	80	1110	LA	
17										249.60	2.6	6.4	291	24.0	10.7	85	700	LA	
18										280.50	2.2	6.6	291	24.0	10.8	78	880	LA	
19										264.00	2.1	6.6	291	24.0	12.0	78	820	LA	
20										256.90	3.2	6.4	291	24.0	12.8	80	960	LA	
21										271.10	2.5	6.6	291	24.0	13.2	76	1700	LA	
22										262.00	2.0	6.7	291	24.0	9.4	82	590	LA	
23										266.90	1.9	6.6	291	24.0	11.6	78	1020	LA	
24										213.35	2.5	6.5	230	19.0	10.7	81	740	LA	
25										264.75	2.0	6.5	288	23.5	13.1	77	870	LA	
26										243.00	2.1	6.6	291	24.0	11.8	81	760	LA	
27										259.18	2.5	6.5	291	24.0	12.0	81	600	LA	
28										241.32	1.8	6.6	279	23.0	12.1	80	410	LA	
29										250.30	2.2	6.6	291	24.0	10.1	83	850	LA	
30										222.20	1.7	6.6	266	22.0	10.5	81	730	LA	
31										266.50	2.6	6.4	291	24.0	11.4	80	780	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0.0	0	0	8120.50	66.5	204.3	8819	725.2	356.8	2480	28755		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0.0	0	0	261.95	2.2	6.6	284	23.4	11.5	80	928		
Sample lost during analysis, so value is a 12-day Average.																			
PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT									
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP																			
DATE																			



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	MI00022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR
2014	09	01	2014
			MONTH
			09
			DAY
			30

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1										277.50	2.5	6.4	291	24.0	12.5	78	820	LA	
2										257.51	2.3	6.7	291	24.0	12.9	74	920	LA	
3										261.50	2.4	6.6	291	24.0	12.4	82	630	LA	
4										258.50	1.9	6.9	291	24.0	11.6	75	630	LA	
5										246.10	1.6	6.6	291	24.0	12.5	82	620	LA	
6										236.40	0.1	6.8	291	23.5	11.9	78	550	LA	
7										253.00	2.2	6.5	291	24.0	14.3	78	560	LA	
8										257.02	1.7	6.7	291	23.5	9.1	80	600	LA	
9										249.98	2.0	6.6	291	24.0	13.7	83	830	LA	
10										248.30	1.7	6.6	186	24.0	9.0	83	650	LA	
11										268.20	2.4	6.6	186	24.0	12.5	81	820	LA	
12										270.50	1.9	6.4	186	24.0	89.0	85	720	LA	
13										240.00	1.8	6.5	291	24.0	10.0	86	590	LA	
14										260.60	2.1	6.3	291	24.0	10.7	84	710	LA	
15										257.40	2.0	6.6	291	24.0	11.9	79	800	LA	
16										255.60	2.3	6.3	270	24.0	9.9	82	950	LA	
17										270.40	2.1	6.4	270	24.0	10.8	82	760	LA	
18										252.00	2.2	6.4	270	24.0	13.0	78	990	LA	
19										281.00	1.8	6.5	270	24.0	11.9	78	820	LA	
20										291.70	1.8	6.7	270	24.0	12.3	79	970	LA	
21										293.80	1.8	6.5	270	24.0	13.5	84	900	LA	
22										273.50	2.0	6.4	270	24.0	13.5	76	940	LA	
23										289.00	1.6	6.5	270	24.0	12.1	79	1030	LA	
24										278.12	1.8	6.5	270	24.0	11.2	81	1060	LA	
25										252.56	2.2	6.4	259	23.0	13.3	77	430	LA	
26										265.30	2.0	6.3	270	24.0	12.9	80	1840	LA	
27										247.50	1.8	6.8	239	24.0	10.3	76	950	LA	
28										252.80	1.9	6.4	217	24.0	11.1	80	1050	LA	
29										244.20	1.9	6.7	228	24.0	11.2	75	1030	LA	
30										247.80	1.7	6.6	228	24.0	12.6	82	800	LA	
31																			
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	7837.81	57.5	196.2	7921	718.0	433.6	2397	24970		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0	0	261.26	1.9	6.5	264	23.9	14.5	80	832		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2014	10	01	2014 10 31

CENTRIFUGE # 3											CENTRIFUGE # 4										
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH
Day																					
1										230.20	2.4	6.5	228	24.0	12.5	83	720				
2										241.80	1.9	6.5	228	24.0	12.8	74	1220				
3										268.00	2.0	6.5	337	24.0	14.5	72	1080				
4										241.50	1.4	6.6	372	24.0	8.5	80	510				
5										230.00	1.8	6.5	372	24.0	13.9	79	330				
6										260.50	1.9	6.4	372	24.0	13.2	76	880				
7										263.39	2.0	6.4	372	24.0	13.7	77	1030				
8										266.10	1.8	6.4	291	24.0	12.3	81	960				
9										237.90	2.3	6.5	272	24.0	13.6	76	1260				
10										233.00	1.6	6.3	270	24.0	12.4	82	620				
11										225.50	2.3	6.4	270	24.0	12.6	79	1140				
12										234.00	2.3	6.3	270	24.0	12.0	78	1200				
13										233.50	2.3	6.3	270	24.0	12.3	75	1750				
14										227.00	2.1	6.7	270	24.0	11.4	83	930				
15										234.00	3.0	6.3	270	24.0	11.2	78	1080				
16										212.50	1.9	6.7	270	24.0	12.5	76	870				
17										205.50	2.2	6.4	270	24.0	12.9	79	1370				
18										226.45	2.4	6.5	270	24.0	12.3	78	1260				
19										240.55	1.9	6.5	270	24.0	11.8	76	640				
20										224.00	2.2	6.4	270	24.0	11.3	83	1240				
21										219.00	2.0	6.6	270	24.0	9.0	80	1060				
22										217.40	2.3	6.4	270	24.0	12.0	75	900				
23										209.60	1.7	6.4	270	24.0	12.6	82	960				
24										211.00	2.4	6.5	270	24.0	11.7	78	1100				
25										220.75	1.9	6.6	268	24.0	11.9	79	1020				
26										275.05	2.3	6.4	213	23.5	10.1	80	940				
27										223.20	2.6	6.4	215	20.5	10.6	77	1150				
28										181.00	2.2	6.6	200	17.0	12.4	76	1120				
29										236.65	2.1	6.4	291	24.0	11.9	83	930				
30										222.35	2.2	6.5	291	24.0	13.2	79	530				
31										233.00	2.1	6.5	291	24.0	12.6	77	1080				
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	7184.39	65.5	200.4	8663	733.0	375.7	2431	30880				
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		231.75	2.1	6.5	279	23.6	12.1	78	996				

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2014	11	01	2014 11 30

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L		KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L		
Day																			
1										213.20	2.0	6.6	291	24.0	11.7	77	1050	LA	
2										226.80	2.7	6.5	291	25.0	13.0	75	670	LA	
3										245.00	2.6	6.3	291	24.0	11.9	73	1210	LA	
4										217.10	2.4	6.6	260	22.5	11.3	79	730	LA	
5										238.40	1.9	6.4	279	23.0	11.8	79	1020	LA	
6	7.62	2.0	6.6	29	1.0	23.7	73	330		184.50	2.1	6.4	215	17.8	12.1	78	860	LA	
7	7.51	1.2	6.7	35	1.2	22.6	75	375		220.00	1.5	6.5	275	22.7	12.9	84	860	LA	
8	8.41	2.2	6.3	29	1.0	21.1	77	850		230.00	2.3	6.4	279	23.0	11.6	84	1050	LA	
9										236.00	1.8	6.4	291	24.0	11.3	79	1070	LA	
10	7.34	2.2	6.3	22	0.8	22.0	74	630		225.85	2.2	6.4	279	23.0	12.1	76	1100	LA	
11	6.40	2.7	6.4	29	1.0	23.8	73	420		230.10	2.2	6.4	236	23.0	12.3	76	1030	LA	
12	6.30	2.4	6.3	28	1.0	23.8	74	1400		241.70	2.1	6.3	238	23.0	12.4	78	1480	LA	
13	7.99	2.4	6.4	27	1.0	23.1	72	540		244.12	2.6	6.5	238	23.0	13.1	76	940	LA	
14		2.3	6.4	10	1.0	23.9	73	550		258.00	1.5	6.6	239	23.0	11.6	82	1010	LA	
15										242.90	2.1	6.4	262	24.0	10.5	82	1210	LA	
16										246.10	2.3	6.4	259	24.0	12.4	79	1180	LA	
17	6.61	2.0	6.4	3	1.0	21.9	74	490		230.79	2.5	6.4	239	23.0	10.9	78	1090	LA	
18				3	1.0					228.71	2.0	6.5	233	22.5	10.1	80	1050	LA	
19		1.6	6.4			22.8	75	1040		217.40	1.4	6.6	238	23.0	13.3	81	1120	LA	
20										219.00	1.9	6.2	249	24.0	13.3	79	950	LA	
21										224.70	2.1	6.5	249	24.0	10.4	86	870	LA	
22										202.30	1.8	6.5	249	24.0	10.9	84	840	LA	
23										213.00	1.9	6.2	249	24.0	12.4	82	1030	LA	
24										218.00	1.6	6.6	249	24.0	11.7	80	1140	LA	
25										205.00	2.6	6.6	213	20.5	11.0	79	1460	LA	
26										187.00	2.4	6.6	228	22.0	13.6	79	720	LA	
27										213.80	2.0	6.6	249	24.0	10.4	80	870	LA	
28										209.40	2.4	6.6	249	24.0	10.4	80	740	LA	
29										216.40	2.0	6.6	249	24.0	11.8	79	880	LA	
30										200.40	2.4	6.7	249	24.0	10.5	84	650	LA	
TOTAL	65.32	21.0	64.2	215	10.0	226.7	740	6625		6685.67	63.3	194.3	7615	696.0	352.7	2388	29880		
AVERAGE	7.26	2.1	6.4	22	1.0	22.9	74	663		222.86	2.1	6.5	254	23.2	11.8	80	996		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 1 AND 2

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	M100022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	DAY
2014	12	01	31

CENTRIFUGE # 1										CENTRIFUGE # 2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L		
Day																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18	222.45	2.0	6.3	653	21.0	22.7	76	190	1										
19	284.00	2.1	6.5	747	23.5	22.2	76	345	1										
20	238.64	2.0	6.6	702	20.5	21.4	76	1240	1										
21	268.36	2.6	6.8	828	24.0	21.5	75	1110	1										
22	259.89	2.9	6.6	801	24.0	22.6	72	810	1										
23	271.11	2.3	6.5	814	23.5	22.8	76	1030	1										
24	254.00	2.3	6.3	828	24.0	28.5	69	380	1										
25	226.50	1.7	6.8	630	24.0	24.5	72	250	1										
26	210.50	0.9	6.9	621	24.0	23.2	86	185	1										
27	207.50	1.8	6.9	621	24.0	28.2	72	170	1										
28	206.40	2.2	6.6	621	24.0	28.2	71	230	1										
29	192.30	2.0	6.6	581	24.0	29.4	64	240	1										
30	202.80	3.0	6.6	546	24.0	26.7	69	553	1										
31	216.67	2.4	6.5	552	24.0	26.5	69	620	1										
TOTAL	3261.12	30.2	92.5	9545	328.5	348.4	1023	7353		0.00	0.0	0.0	0	0.0	0.0	0	0		
AVERAGE	232.94	2.2	6.6	682	23.5	24.9	73	525		0.00	0.0	0.0	0	0.0	0.0	0	0		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>	
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>	
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>	

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>M100022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2014	12	01	2014 12 31

CENTRIFUGE #3													CENTRIFUGE #4												
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To							
Units	Kgal	Pct	pH			Pct	Pct	mg/L	MHF	KGal	Pct	pH			Pct	Pct	mg/L	MHF							
Day																									
1										195.00	1.9	6.6	238	23.0	12.2	78	830	LA							
2										219.00	2.2	6.6	236	22.8	12.1	86	1030	LA							
3										236.50	2.0	6.5	249	24.0	11.5	81	790	LA							
4										207.50	1.8	6.5	249	24.0	11.4	81	680	LA							
5	4.67	1.8	6.6	21	0.8	23.0	77	340		215.20	2.0	6.7	241	23.2	11.3	79	910	LA							
6										200.20	2.0	6.6	249	24.0	11.2	86	580	LA							
7										206.00	2.3	6.5	249	24.0	12.8	81	860	LA							
8										214.00	2.2	6.5	249	24.0	12.4	80	820	LA							
9	166.28	2.4	6.5	600	21.0	23.2	75	290	1	24.81	2.3	6.6		10	11.4	82	660	LA							
10	247.10	1.5	6.5	621	23.3	21.9	77	510	1																
11	240.90	1.2	6.4	619	22.9	21.2	77	490	1																
12	253.00	1.9	6.4	621	23.0	23.5	77	355	1																
13	254.60	1.8	6.4	621	24.0	21.7	78	1110	1																
14	275.80	2.4	6.3	715	24.0	20.0	78	2380	1																
15	245.60	2.1	6.4	747	22.8	20.2	76	600	1																
16	279.00	1.9	6.4	731	23.3	19.9	78	385	1																
17	256.80	1.9	6.5	747	23.5	21.0	77	230	1																
18	40.81	1.5	6.5	109	2.8	20.8	76	980	1																
19									1																
20									1																
21									1																
22									1																
23									1																
24									1																
25									1																
26									1																
27									1																
28									1																
29									1																
30									1																
31									1																
TOTAL	2264.56	20.4	70.9	6152	211.4	236.4	846	7670		1718.21	18.7	59.1	1970	191.0	106.3	734	7160								
AVERAGE	205.87	1.9	6.4	559	19.2	21.5	77	697		190.91	2.1	6.6	219	21.2	11.8	82	796								

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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PERMITTEES NAME
CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS
2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE
BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		M100022276	
MONITORING PERIOD:			
FROM		TO	
YEAR	MONTH	DAY	YEAR
2015	01	01	2015
			MONTH
			DAY
			31

	CENTRIFUGE #1											CENTRIFUGE #2										
	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To				
Para- meter																						
Units	Kgal	Pct	pH			Pct	Pct	mg/L	MHF	Kgal	Pct	pH			Pct	Pct	mg/L	MHF				
Day																						
1	241.03	2.0	6.5	558	24.0	26.6	69	320	1													
2	239.10	2.1	6.7	579	24.0	24.3	70	445	1													
3	250.20	2.0	6.5	651	24.0	23.6	72	500	1													
4	251.30	2.0	6.6	663	24.0	23.0	73	880	1													
5	266.70	1.9	6.7	663	24.0	22.2	72	417	1													
6	182.00	1.2	6.7	414	16.0	22.6	74	245	1													
7	286.15	2.0	6.5	663	24.0	22.8	76	400	1													
8	266.85	1.9	6.6	663	23.5	22.0	76	420	1													
9	285.70	1.5	6.6	663	24.0	21.6	77	340	1													
10	255.80	1.6	6.6	635	23.0	22.0	77	260	1													
11	290.20	1.6	6.5	663	24.0	21.9	80	310	1													
12	293.70	1.7	6.4	663	24.0	21.4	74	420	1													
13	295.30	1.6	6.5	725	23.5	20.6	78	605	1													
14	321.00	2.0	6.4	747	24.0	20.6	85	1310	1													
15	318.75	1.3	6.5	747	24.0	20.9	76	290	1													
16	314.25	1.6	6.5	747	24.0	21.1	77	335	1													
17	268.00	1.9	6.4	671	21.5	20.6	77	350	1													
18	318.00	2.1	6.5	821	24.0	20.5	77	300	1													
19	292.00	1.5	6.5	774	24.0	20.4	76	290	1													
20	242.00	1.9	6.5	656	20.8	20.5	80	630	1													
21	294.00	2.2	6.5	787	24.0	19.7	77	573	1													
22	291.00	1.8	6.5	786	23.5	20.1	78	410	1													
23	292.00	1.9	6.4	786	24.0	20.4	78	660	1													
24	285.20	1.9	6.6	786	24.0	19.8	78	1000	1													
25	290.80	2.2	6.4	825	24.0	15.5	77	1520	1													
26	277.01	1.9	6.5	828	24.0	19.9	76	380	1													
27	299.20	1.5	6.6	811	23.5	20.7	77	405	1													
28	312.40	1.5	6.7	828	24.0	20.0	78	315	1													
29	184.00	2.2	6.5	535	15.5	20.1	79	590	1													
30	299.10	1.9	6.5	828	24.0	20.3	81	750	1													
31	296.90	1.8	6.5	828	24.0	20.3	77	520	1													
TOTAL	8599.64	56.2	202.4	21994	718.8	656.0	2372	16190		0.00	0.0	0.0	0	0.0	0.0	0	0					
AVERAGE	277.41	1.8	6.5	709	23.2	21.2	77	522		0.00	0.0	0.0	0	0.0	0.0	0	0					
Sample was lost during analysis so an average of the day before and the day after was used for the cake solids and volities on 1/3/15																						
PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT															DATE							
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP																						

## CENTRIFUGE 1 AND 2

DISCHARGE NUMBER		PERMIT NUMBER	
001		M100022276	
MONITORING PERIOD:			
FROM		TO	
YEAR	MONTH	DAY	
2015	02	01	28

	CENTRIFUGE #1									CENTRIFUGE #2								
Para-meter Units	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF
Day																		
1	282.00	1.9	6.5	828	24.0	19.4	77	545	1									
2	279.00	1.3	6.7	828	24.0	19.2	74	350	1									
3	249.36	2.0	6.7	725	21.0	20.1	75	400	1									
4	255.70	2.2	6.6	715	20.8	21.9	66	475	1									
5	294.50	1.5	6.7	828	24.0	19.7	76	610	1									
6	321.30	2.2	6.6	868	23.6	21.0	75	500	1									
7	308.80	1.8	6.6	870	24.0	21.0	76	300	1									
8	302.20	1.7	6.6	870	24.0	21.0	75	285	1									
9	125.63	1.9	6.6	326	9.0	21.6	74	380	1									
10																		
11																		
12	42.37	2.3	6.3	143	4.8	24.8	72	490	1									
13	300.00	2.0	6.4	787	24.0	22.9	73	1610	1									
14	304.40	1.7	6.4	808	24.0	19.6	76	1030	1									
15	308.81	2.1	6.4	828	24.0	19.1	77	850	1									
16	305.57	1.8	6.4	874	24.0	19.4	78	585	1									
17	302.88	2.2	6.4	891	24.0	19.7	83	400	1									
18	310.15	2.2	6.4	866	24.0	20.4	77	430	1									
19	310.40	2.3	6.5	870	24.0	20.2	80	345	1									
20	264.19	2.4	6.5	665	18.0	19.5	78	320	1									
21	112.15	1.2	6.5	285	7.5	22.7	80	440	1									
22	299.26	2.3	6.6	912	24.0	19.2	80	775	1									
23	302.00	1.8	6.4	884	24.0	18.6	79	1280	1									
24	306.00	2.2	6.4	1093	24.0	21.0	80	293	1									
25	320.00	2.2	6.4	962	24.0	20.3	79	367	1									
26	330.60	2.4	6.4	1077	24.0	19.8	76	240	1									
27	297.40	2.0	6.6	1098	24.0	18.9	79	230	1									
28	298.20	1.8	6.5	1098	24.0	20.6	78	380	1									
AVERAGE	274.34	2.0	6.5	808	21.6	20.4	77	535		0.00	0.0	0.0	0	0.0	0.0	0	0	
TOTAL	7132.87	51.4	169.1	20999	560.7	531.6	1993	13910		0.00	0.0	0.0	0	0.0	0.0	0	0	

RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
DATE



## CENTRIFUGE 3 &amp; 4

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	

MONITORING PERIOD:		FROM		TO	
YEAR	MONTH	DAY	YEAR	MONTH	DAY
2015	02	01	2015	02	28

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	
Day																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9	157.26	1.9	6.6	507	13.0	20.8	75	380	1										
10	308.80	1.8	6.6	870	23.5	20.2	78	467	1										
11	294.20	2.3	6.6	825	24.0	22.4	71	280	1										
12	217.07	2.0	6.4	634	16.2	20.6	74	970	1										
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26	13.11	4.6	6.2	35	1.0	19.9	78	780											
27																			
28																			
TOTAL	990.44	12.6	32.4	2771	77.7	103.9	376	2877		0.00	0.0	0.0	0	0.0	0.0	0	0		
AVERAGE	198.09	2.5	6.5	554	15.5	20.8	75	575		0.00	0.0	0.0	0	0.0	0.0	0	0		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
RICHARD E. BEARDSLEE SUPERINTENDENT WWTP

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DATE

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	MI00022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR
2015	03	01	2015
			MONTH
			DAY
			31

	CENTRIFUGE # 1										CENTRIFUGE # 2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To		
Units	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF		
Day																				
1	305.20	2.0	6.5	1112	24.0	20.3	82	265	1											
2	314.93	1.7	6.5	1136	24.0	19.6	76	320	1											
3	314.07	1.8	6.5	1077	24.0	20.7	79	270	1											
4	329.00	2.0	6.6	1077	24.0	21.0	79	280	1											
5	338.00	1.5	6.4	1077	24.0	23.2	76	360	1											
6	337.00	1.8	6.6	1049	24.0	24.6	77	330	1											
7	358.50	1.6	6.5	1035	24.0	22.7	77	270	1											
8	337.50	1.9	6.6	992	23.0	21.2	77	410	1											
9	123.21	2.0	6.6	323	10.8	21.0	74	190	1											
10	278.79			683	23.5				1											
11	267.00			635	21.0				1											
12	16.33								1											
13																				
14																				
15	47.84	1.7	6.5	142	5.5	19.3	88	110	1											
16	185.83	1.9	6.7	725	24.0	21.7	75	210	1											
17	196.00	1.8	6.5	726	24.0	24.3	79	273	1											
18	205.50	2.1	6.4	687	24.0	25.6	75	290	1											
19	190.50	1.9	6.5	591	24.0	22.5	73	290	1											
20	126.73	1.8	6.6	440	12.0	20.6	77	305	1											
21	95.47	1.7	6.5	412	12.5	21.7	76	260	1											
22	190.90	2.1	6.5	747	24.0	21.3	78	185	1											
23	196.17	1.6	6.6	754	24.0	21.0	77	205	1											
24	194.73	0.9	6.6	705	24.0	19.1	79	235	1											
25	190.50	1.7	6.6	712	24.0	20.3	75	445	1											
26	195.41	1.7	6.4	728	24.0	22.1	77	240	1											
27	185.89	1.2	6.8	731	24.0	20.6	81	185	1											
28	176.45	1.4	6.6	726	24.0	20.9	76	150	1											
29	178.75	1.6	6.6	726	24.0	21.0	77	165	1											
30	194.50	1.5	6.6	755	24.0	20.4	76	167	1											
31	186.50	1.8	6.6	726	24.0	22.1	75	207	1											
TOTAL	6257.20	44.7	170.4	21229	612.3	558.8	2011	6617		0.00	0.0	0.0	0	0.0	0.0	0	0			
AVERAGE	215.77	1.7	6.6	758	21.9	21.5	77	255		0.00	0.0	0.0	0	0.0	0.0	0	0			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>M100022276</b>	
MONITORING PERIOD:			
FROM	TO	FROM	TO
YEAR MONTH DAY <b>2015 03 01</b>	YEAR MONTH DAY <b>2015 03 31</b>		

CENTRIFUGE # 3											CENTRIFUGE # 4										
Para-meter Units	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF			
Day																					
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9	45.19	1.9	6.5	146	6.0	22.0	74	275	1												
10		1.6	6.4			22.7	78	830	1												
11		2.0	6.6			20.3	79	295	1												
12	71.62	1.9	6.1	69	5.5	21.7	76	340	1												
13	314.00	2.1	6.1	949	23.5	22.6	79	990	1												
14	316.47	1.8	6.4	828	23.8	19.5	78	310	1												
15	312.69	1.7	6.7	793	24.0	20.3	82	180	1												
16	186.84	1.8	6.7	725	24.0	22.1	76	165	1												
17	197.00	1.9	6.5	726	24.0	24.6	76	230	1												
18	205.80	2.2	6.5	687	24.0	24.1	75	260	1												
19	191.20	2.2	6.4	591	24.0	22.9	72	400	1												
20	226.63	1.8	6.6	868	21.2	20.1	77	260	1												
21	172.43	1.9	6.4	718	19.5	21.1	79	290	1												
22	191.17	2.0	6.6	843	24.0	21.1	75	210	1												
23	196.63	1.6	6.6	853	22.4	21.2	77	167	1												
24	197.74	1.0	6.6	705	24.0	20.5	78	270	1												
25	186.40	1.8	6.6	712	23.5	20.2	76	1120	1												
26	196.66	1.6	6.6	728	23.5	21.1	76	210	1												
27	186.74	1.2	6.8	731	22.2	20.8	76	160	1												
28	180.95	1.5	6.6	726	24.0	19.8	80	160	1												
29	181.25	1.6	6.6	726	24.0	19.8	74	165	1												
30	193.37	1.3	6.7	743	24.0	19.5	78	193	1												
31	186.63	1.9	6.6	726	24.0	21.7	78	213	1												
TOTAL	4136.41	40.3	150.2	14593	455.1	489.7	1769	7693		0.00	0.0	0.0	0	0.0	0.0	0	0				
AVERAGE	196.97	1.8	6.5	695	21.7	21.3	77	334		0.00	0.0	0.0	0	0.0	0.0	0	0				

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEES NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEES ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>M100022276</b>	
MONITORING PERIOD:			
FROM	TO	YEAR	MONTH
2015	04	01	04
DAY	DAY	DAY	DAY
30	30		

CENTRIFUGE # 1																			CENTRIFUGE # 2									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF										
Day																												
1	149.40	1.8	6.6	534	16.5	22.0	74	180	1																			
2	254.60	1.8	6.4	812	23.0	23.9	75	440	1																			
3	201.14	1.8	6.5	726	24.0	23.8	75	405	1																			
4	222.01	1.8	6.6	726	24.0	24.0	77	230	1																			
5	204.84	2.0	6.5	725	24.0	23.9	80	205	1																			
6	203.02	1.8	6.6	726	24.0	24.0	75	280	1																			
7	208.90	1.7	6.5	726	24.0	23.1	82	350	1																			
8	203.10	1.7	6.6	732	24.0	19.8	75	335	1																			
9	179.78	1.9	6.5	683	17.2	21.4	78	260	1																			
10	193.22	1.7	6.6	730	24.0	21.9	74	210	1																			
11	207.50	1.7	6.4	726	24.0	21.7	79	170	1																			
12	223.63	2.0	6.5	726	24.0	22.2	76	305	1																			
13	206.87	1.5	6.6	769	21.5	22.6	77	230	1																			
14	288.10	1.6	6.6	882	21.0	21.7	78	435	1																			
15	290.40	1.6	6.6	820	15.2	21.6	76	500	1																			
16	344.50	1.7	6.6	1028	24.0	20.1	77	810	1																			
17	238.00	1.6	6.6	752	14.5	20.5	80	435	1																			
18	219.20	1.9	6.1	744	24.0	26.2	76	620	1																			
19	211.74	1.7	6.6	770	24.0	24.4	76	270	1																			
20	207.06	1.6	6.7	747	24.0	23.6	75	287	1																			
21	200.00	1.3	6.7	747	22.2	22.1	74	165	1																			
22	292.20	1.5	6.7	735	24.0	21.0	77	230	1																			
23	341.97	1.2	6.6	882	24.0	20.7	78	340	1																			
24	195.02	1.6	6.5	648	20.5	24.5	74	250	1																			
25																												
26																												
27																												
28	37.97			178	3.5				1																			
29	21.24			76	2.0				1																			
30																												
TOTAL	5545.41	40.5	157.2	18350	537.1	540.7	1838	7942		0.00	0.0	0.0	0	0.0	0.0	0	0	0										
AVERAGE	213.29	1.7	6.6	706	20.7	22.5	77	331		0.00	0.0	0.0	0	0.0	0.0	0	0	0										

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MID0022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
<b>2015</b>	<b>04</b>	<b>01</b>	<b>2015 04 30</b>

CENTRIFUGE # 3																			CENTRIFUGE # 4																		
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF																			
Day																																					
1	119.42	1.8	6.6	435	14.0	21.7	74	180	1																												
2	115.58	1.8	6.4	505	15.0	23.7	76	190	1																												
3	200.64	1.7	6.6	726	24.0	23.4	76	203	1																												
4	223.92	1.7	6.6	726	24.0	22.8	76	213	1																												
5	205.44	1.8	6.6	725	24.0	23.6	84	140	1																												
6	199.00	1.9	6.6	726	24.0	22.1	77	270	1																												
7	207.90	1.6	6.5	726	24.0	22.4	80	340	1																												
8	201.10	1.5	6.6	732	24.0	19.9	78	265	1																												
9	176.20	1.8	6.5	642	19.5	20.5	75	260	1																												
10	188.80	1.8	6.6	726	22.0	20.6	74	165	1																												
11	208.50	1.2	6.5	726	24.0	21.7	76	130	1																												
12	224.28	1.7	6.5	726	24.0	21.4	79	345	1																												
13	208.12	1.7	6.6	769	22.0	22.2	74	200	1																												
14	41.54	1.5	6.7	151	3.0	22.8	81	215	1																												
15																																					
16																																					
17																																					
18	184.66	1.9	6.2	670	22.0	24.1	77	280	1																												
19	210.96	1.6	6.6	770	24.0	23.9	75	260	1																												
20	204.84	1.5	6.6	747	24.0	22.8	74	155	1																												
21	202.50	1.4	6.7	684	18.8	22.1	78	190	1																												
22	33.07	1.4	6.7	106	2.0	22.5	76	150	1																												
23	84.58			238	7.0				1																												
24	26.60	1.7	6.6	326	10.5	25.5	75	193	1	118.08	1.7	6.5	109	10.5	9.8	83	1100	LA																			
25										395.80	1.4	6.7	249	24.0	10.3	82	1160	LA																			
26										383.70	1.7	6.5	331	24.0	11.2	83	2360	LA																			
27										412.85	1.7	6.6	372	24.0	11.9	80	1010	LA																			
28										336.61	1.7	6.6	357	23.0	12.2	86	1170	LA																			
29										376.04	1.7	6.5	357	23.0	10.7	79	940	LA																			
30										411.58	1.4	6.3	372	24.0	12.0	81	1190	LA																			
TOTAL	3467.65	33.0	131.3	12582	385.8	449.7	1535	4344		2434.66	11.3	45.7	2147	152.5	78.1	574	8930																				
AVERAGE	165.13	1.7	6.6	599	18.8	22.5	77	217		347.81	1.6	6.5	307	21.8	11.2	82	1276																				

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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## CENTRIFUGE 3 &amp; 4

DISCHARGE NUMBER		PERMIT NUMBER	
001		M100022276	

MONITORING PERIOD:		FROM		TO	
YEAR	MONTH	DAY	YEAR	MONTH	DAY
2015	05	01	2015	05	31

CENTRIFUGE # 3																			CENTRIFUGE # 4																		
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To																			
Units	KGal	Pct	pH			Pct	Pct	mg/L	MHF	KGal	Pct	pH			Pct	Pct	mg/L	MHF																			
Day																																					
1										422.42	1.5	6.6	372	24.0	11.9		81	1280																			
2										404.30	1.6	6.2	372	24.0	11.5		80	1280																			
3										426.78	1.6	6.6	372	24.0	11.6		80	820																			
4										392.00	1.6	6.6	344	24.0	11.4		78	1040																			
5										375.00	1.0	6.7	330	24.0	11.8		77	1070																			
6										391.10	2.0	6.6	330	24.0	11.9		80	1160																			
7										370.00	1.6	6.7	330	24.0	11.5		80	960																			
8										391.87	1.7	6.7	330	24.0	11.5		79	1570																			
9										385.83	2.1	6.6	330	24.0	12.2		80	2660																			
10										252.53	2.4	6.5	214	17.0	12.0		79	1960																			
11										358.73	2.0	6.6	244	24.0	12.0		78	1090																			
12										371.00	1.6	6.6	221	24.0	10.8		85	1000																			
13										371.40	2.0	6.6	249	24.0	12.8		72	900																			
14										377.60	1.5	6.4	249	24.0	11.7	79	1090	LV																			
15										389.30	2.0	6.4	249	24.0	12.2		80	1630																			
16										358.70	2.2	6.2	249	24.0	11.4		83	1850																			
17										360.00	1.2	6.3	249	24.0	10.7		87	760																			
18										369.00	1.7	6.4	249	24.0	10.8		80	1100																			
19										331.50	1.5	6.6	330	24.0	10.9		82	920																			
20										312.50	3.6	6.4	330	24.0	13.2		80	1000																			
21										325.00	1.9	6.5	330	24.0	12.2		82	830																			
22										318.80	1.5	6.4	330	24.0	10.8		82	930																			
23										320.49	1.6	6.4	330	24.0	13.3		82	1210																			
24										320.70	2.1	6.4	330	24.0	11.2	81	1130	LV																			
25										358.90	1.5	6.6	330	24.0	11.1		80	990																			
26										535.10	1.5	6.4	330	24.0	11.6		83	1230																			
27										338.58	3.0	6.0	330	24.0	12.9		77	2000																			
28										328.42	2.1	6.4	330	24.0	12.9		80	1490																			
29										340.78	2.0	6.4	322	24.0	12.4		79	1160																			
30										306.22	2.1	6.3	291	24.0	11.1		82	940																			
31										275.00	1.4	6.6	291	24.0	10.7		85	630																			
TOTAL	0.00	0.0	0.0	0	0.0	0.0		0	0	11199.55	57.1	200.7	9487	737.0	364.0	2493	37680																				
AVERAGE	0.00	0.0	0.0	0	0.0	0.0		0	0	361.28	1.8	6.5	306	23.8	11.7	80	1215																				
Samples lost during analysis, so 12-day average was used for each value																																					
PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT															SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT				DATE																		
RICHARD E. BEARDSLEE, SUPERINTENDENT WWPP																																					



## CENTRIFUGE 3 &amp; 4

BATTLE CREEK, MICHIGAN 49037

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WMTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEES NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEES ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

MONITORING PERIOD:		FROM		TO	
YEAR	MONTH	DAY	YEAR	MONTH	DAY
2015	07	01	2015	07	31

DISCHARGE NUMBER <b>001</b>	PERMIT NUMBER <b>M100022276</b>
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CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	
Units	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1										268.58	1.8	6.5	291	24.0	12.6	75	770	LA	
2										246.98	2.2	6.2	291	24.0	8.2	81	700	LA	
3										206.50	1.7	6.6	279	23.0	8.4	81	580	LA	
4										184.90	1.9	6.3	291	23.0	6.7	83	470	LA	
5										201.00	2.0	6.4	313	24.0	10.5	83	395	LA	
6										210.65	1.7	6.7	259	23.0	10.4	78	500	LA	
7										208.35	1.5	6.6	270	24.0	10.5	78	550	LA	
8										229.00	1.7	6.5	270	24.0	11.9	79	490	LA	
9										260.90	1.8	6.5	270	24.0	12.6	76	640	LA	
10										264.20	2.0	6.5	279	24.0	9.5	77	740	LA	
11										237.00	1.4	6.6	291	24.0	11.1	80	580	LA	
12										254.30	1.7	6.5	291	24.0	12.1	84	690	LA	
13										255.60	1.9	6.4	291	24.0	11.0	78	890	LA	
14										269.50	2.2	6.4	291	24.0	12.6	77	1230	LA	
15										274.50	2.2	6.5	291	24.0	11.7	77	950	LA	
16										264.23	2.0	6.4	291	24.0	11.9	77	740	LA	
17										244.00	1.5	6.6	291	24.0	13.0	78	670	LA	
18										281.05	1.8	6.3	291	24.0	12.6	79	950	LA	
19										256.95	2.0	6.5	291	24.0	11.9	82	720	LA	
20										258.37	1.9	6.4	291	24.0	12.2	79	940	LA	
21										255.63	1.8	6.6	291	24.0	12.4	79	770	LA	
22										276.80	3.0	6.4	291	24.0	12.2	82	1080	LA	
23										251.40	1.5	6.6	291	24.0	12.2	78	700	LA	
24										279.42	2.2	6.4	291	24.0	13.0	81	1340	LA	
25										244.58	2.0	6.3	291	24.0	12.5	80	620	LA	
26										256.85	2.2	6.4	291	24.0	12.2	78	820	LA	
27										235.15	1.4	6.6	291	24.0	12.6	80	570	LA	
28										247.00	1.6	6.5	291	24.0	12.7	79	680	LA	
29										287.30	2.4	6.4	291	24.0	13.1	74	1200	LA	
30										256.50	2.1	6.4	291	19.0	12.4	77	1680	LA	
31										255.80	1.7	6.3	291	24.0	12.5	80	890	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	7722.79	58.8	200.3	8924	736.0	359.2	2450	24545		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0	0	249.12	1.9	6.5	288	23.7	11.6	79	792		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEES NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEES ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2015	08	01	2015 08 31

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH		Hours	Pct	Pct	mg/L		KGal	Pct	pH		Hours	Pct	Pct	mg/L		
Day																			
1										236.15	1.8	6.3	291	24.0	12.6	82	800	LA	
2										205.75	2.0	6.5	291	23.5	11.8	78	660	LA	
3										235.26	1.8	6.6	291	24.0	14.2	75	730	LA	
4										224.24	1.8	6.6	291	24.0	12.2	78	710	LA	
5										234.00	2.6	6.4	291	24.0	14.2	72	670	LA	
6										219.00	1.9	6.2	236	19.5	11.6	78	570	LA	
7										252.00	1.6	6.4	291	24.0	13.8	78	740	LA	
8										242.58	1.8	6.4	291	24.0	11.8	81	550	LA	
9										225.42	1.5	6.4	291	24.0	10.6	81	450	LA	
10										236.85	1.8	6.4	291	24.0	9.8	82	450	LA	
11										222.15	1.9	6.6	291	24.0	11.4	80	448	LA	
12										251.20	2.2	6.3	291	24.0	12.9	78	570	LA	
13										277.06	1.9	6.4	291	24.0	13.0	80	740	LA	
14										244.74	2.6	6.4	291	24.0	10.6	78	830	LA	
15										222.94	1.7	6.3	260	21.5	11.7	82	480	LA	
16										240.17	2.2	6.2	291	24.0	10.5	82	490	LA	
17										239.90	1.6	6.5	291	24.0	12.2	78	440	LA	
18										232.00	2.0	6.6	291	24.0	12.2	80	505	LA	
19										237.30	2.0	6.5	291	24.0	12.4	83	480	LA	
20										230.70	1.8	6.5	267	22.0	12.4	79	400	LA	
21										264.00	1.7	6.5	291	24.0	11.8	79	540	LA	
22										242.20	2.1	6.4	291	24.0	11.6	83	480	LA	
23										262.40	2.0	6.6	291	24.0	11.3	84	540	LA	
24										229.50	2.2	6.5	291	24.0	11.4	79	460	LA	
25										251.00	1.8	6.7	291	24.0	11.2	80	670	LA	
26										262.30	2.0	6.5	291	24.0	11.2	85	730	LA	
27										256.40	2.2	6.7	291	24.0	11.4	79	800	LA	
28										268.62	1.9	6.6	291	24.0	11.6	81	590	LA	
29										258.78	1.7	6.6	291	24.0	11.7	82	560	LA	
30										274.23	2.2	6.6	291	24.0	11.5	82	490	LA	
31										240.67	2.4	6.5	291	24.0	11.2	79	570	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	7519.51	60.7	200.7	8911	734.5	367.8	2478	18153		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0	0	242.56	2.0	6.5	287	23.7	11.9	80	586		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2015	09	01	2015 09 30

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L		
Day																			
1										251.00	1.9	6.6	291	24.0	11.8	82	650	LA	
2										272.70	2.2	6.4	291	24.0	12.4	79	840	LA	
3										263.98	1.8	6.3	291	24.0	12.1	82	690	LA	
4										254.92	2.2	6.5	291	24.0	12.0	78	580	LA	
5										249.20	1.8	6.4	291	24.0	11.9	80	620	LA	
6										240.70	2.4	6.4	291	24.0	11.8	82	800	LA	
7										198.50	2.4	6.4	291	24.0	11.6	78	1140	LA	
8										195.20	1.9	6.4	291	24.0	13.2	78	580	LA	
9										213.70	2.5	6.4	291	24.0	12.3	81	540	LA	
10										222.10	1.8	6.6	291	24.0	12.1	80	510	LA	
11										235.50	2.1	6.5	291	24.0	11.6	85	650	LA	
12										232.50	1.6	6.7	291	24.0	10.3	82	520	LA	
13										237.60	2.0	6.6	291	24.0	11.7	79	570	LA	
14										230.40	1.9	6.5	291	24.0	11.8	78	1590	LA	
15										234.00	1.8	6.6	291	24.0	11.3	81	830	LA	
16										242.80	2.0	6.6	291	24.0	11.1	81	750	LA	
17										235.20	1.8	6.3	291	24.0	11.1	79	710	LA	
18										240.00	2.1	6.5	291	24.0	11.8	81	560	LA	
19										214.95	1.4	6.5	291	24.0	11.2	82	360	LA	
20										240.90	1.7	6.6	291	24.0	11.9	78	640	LA	
21										225.40	1.7	6.5	291	24.0	11.6	77	460	LA	
22										257.00	2.1	6.6	291	24.0	11.2	81	1080	LA	
23										265.70	2.1	6.6	291	24.0	10.3	85	660	LA	
24										288.12	1.9	6.6	291	24.0	10.3	81	1170	LA	
25										292.38	1.8	6.6	291	24.0	10.9	80	1130	LA	
26										280.00	1.2	6.7	291	24.0	10.6	83	670	LA	
27										244.00	2.3	6.6	291	24.0	11.0	82	640	LA	
28										243.63	2.1	6.7	291	24.0	11.0	79	620	LA	
29										238.37	1.9	6.7	291	24.0	11.4	78	630	LA	
30										271.00	2.1	6.6	291	24.0	11.2	82	1110	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	7311.45	58.5	196.0	8730	720.0	344.5	2414	22300		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0	0	243.72	2.0	6.5	291	24.0	11.5	80	743		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2015	10	01	2015 10 31

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L		KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L		
Day																			
1										266.00	2.0	6.6	291	24.0	11.8	78	960	LA	
2										267.84	2.1	6.6	291	24.0	12.1	80	880	LA	
3										262.06	1.6	6.6	291	24.0	11.8	80	650	LA	
4										249.88	2.2	6.6	291	24.0	11.7	82	1060	LA	
5										244.22	2.3	6.7	291	24.0	11.7	78	540	LA	
6										249.00	2.2	6.6	291	24.0	12.6	80	730	LA	
7										265.20	2.4	6.6	291	24.0	14.4	75	1240	LA	
8										266.80	2.8	6.5	291	24.0	13.5	73	910	LA	
9										235.00	1.8	6.7	291	24.0	10.9	81	507	LA	
10										244.02	1.8	6.6	291	24.0	13.0	81	440	LA	
11										244.98	2.4	6.5	291	24.0	12.5	82	880	LA	
12										245.00	2.0	6.5	291	24.0	12.5	78	610	LA	
13										260.00	1.6	6.6	291	24.0	12.4	79	620	LA	
14										266.70	0.9	6.7	291	24.0	12.5	81	770	LA	
15										249.50	1.4	6.6	291	24.0	13.0	79	520	LA	
16										253.50	1.5	6.6	291	24.0	13.1	80	680	LA	
17										266.00	1.7	6.5	282	23.5	13.0	77	370	LA	
18										287.50	2.1	6.5	291	24.0	13.4	78	550	LA	
19										289.83	1.3	6.7	291	24.0	11.8	78	800	LA	
20										319.17	1.7	6.4	291	24.0	12.1	82	1190	LA	
21										295.00	1.8	6.6	291	24.0	12.0	83	1020	LA	
22										290.70	1.6	6.5	291	24.0	11.8	83	690	LA	
23										266.30	1.3	6.6	291	24.0	12.1	82	610	LA	
24										254.65	1.7	6.6	291	24.0	12.8	79	650	LA	
25										223.35	1.5	6.6	291	24.0	12.5	79	470	LA	
26										250.83	1.4	6.7	291	24.0	12.7	80	610	LA	
27										265.17	2.4	6.4	291	24.0	11.8	81	890	LA	
28										274.00	1.9	6.5	291	24.0	10.6	86	780	LA	
29										292.80	1.9	6.5	291	24.0	12.2	80	1340	LA	
30										281.09	2.4	6.4	291	24.0	13.9	66	1130	LA	
31										258.93	1.6	6.6	291	24.0	10.8	84	500	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	8185.02	57.3	203.7	9012	743.5	383.0	2465	23597		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0	0	264.03	1.8	6.6	291	24.0	12.4	80	761		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2015	11	01	2015 11 30

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L		
Day																			
1										275.40	1.8	6.6	291	24.0	12.0	83	680		LA
2										309.20	1.6	6.7	291	24.0	12.1	80	740		LA
3										286.80	1.5	6.6	291	24.0	11.8	81	730		LA
4										289.00	1.2	6.7	291	24.0	13.1	80	1000		LA
5										280.50	1.5	6.8	291	24.0	12.7	79	490		LA
6										266.30	1.6	6.6	291	24.0	12.5	84	670		LA
7										266.85	1.4	6.5	291	24.0	10.3	81	520		LA
8										283.85	1.9	6.6	291	24.0	12.2	81	575		LA
9										259.67	1.6	6.7	291	24.0	12.6	78	560		LA
10										276.33	1.4	6.6	291	24.0	12.5	82	860		LA
11										294.60	1.9	6.4	279	23.0	13.3	76	970		LA
12										327.40	1.9	6.7	291	24.0	12.2	80	810		LA
13										320.20	1.5	6.5	291	24.0	11.7	80	1150		LA
14										276.20	1.5	6.8	291	24.0	10.6	84	530		LA
15										262.20	0.5	6.7	149	24.0	11.9	83	580		LA
16										258.67	1.9	6.1	85	24.0	7.8	82	1060		LA
17										162.73	1.8	6.5	167	13.2	13.3	81	485		LA
18										271.83	1.4	6.2	291	24.0	13.3	87	810		LA
19										304.67	1.4	6.7	291	24.0	11.7	81	700		LA
20										301.90	1.8	6.6	291	22.8	11.5	81	1000		LA
21										307.05	1.5	6.6	291	24.0	11.5	82	1190		LA
22										278.34	1.4	6.4	291	24.0	9.7	85	660		LA
23										283.67	1.7	6.5	291	24.0	10.5	80	920		LA
24										284.29	1.6	6.6	291	24.0	10.7	82	1240		LA
25										260.50	1.6	6.6	291	24.0	11.2	81	1000		LA
26										233.00	1.5	6.5	291	24.0	10.6	83	530		LA
27										256.70	1.3	6.6	291	24.0	11.0	81	1110		LA
28										255.70	1.8	6.5	291	24.0	11.4	83	1040		LA
29										239.60	2.1	6.3	267	22.0	10.6	78	197		LA
30										276.45	1.6	6.7	291	24.0	10.7	78	670		LA
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		8248.60	47.2	196.9	8222	705.0	347.0	2437	23487		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		274.95	1.6	6.6	274	23.5	11.6	81	783		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>M100022276</b>	
MONITORING PERIOD:			
FROM	TO	YEAR	MONTH
DAY	DAY	2015	12
01	31		

	CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF		
Day																				
1	0.00	0.0	0.0	0	0.0	0.0	0	0	0											
2	0.00	0.0	0.0	0	0.0	0.0	0	0	0											
3	0.00	0.0	0.0	0	0.0	0.0	0	0	0											
4	0.00	0.0	0.0	0	0.0	0.0	0	0	0											
5	0.00	0.0	0.0	0	0.0	0.0	0	0	0											
6	0.00	0.0	0.0	0	0.0	0.0	0	0	0											
7	0.00	0.0	0.0	0	0.0	0.0	0	0	0											
8	0.00	0.0	0.0	0	0.0	0.0	0	0	0											
9	0.00	0.0	0.0	0	0.0	0.0	0	0	0											
10	0.00	0.0	0.0	0	0.0	0.0	0	0	0											
11	40.50	1.8	6.5	190	5.5	26.1	76	575	1											
12	302.70	1.1	6.7	828	24.0	22.2	80	620	1											
13	208.60	1.9	6.3	569	16.5	21.6	78	630	1											
14	287.70	2.0	6.3	828	24.0	22.8	76	570	1											
15	246.50	1.5	6.7	612	19.8	21.4	78	520	1											
16	296.03	2.1	6.4	871	24.0	20.8	79	600	1											
17	304.47	1.7	6.4	870	24.0	21.1	79	670	1											
18	294.80	1.8	6.5	869	24.0	19.8	79	390	1											
19	236.72	1.6	6.4	739	20.5	21.4	78	400	1											
20	308.98	1.8	6.3	883	24.0	21.0	77	660	1											
21	311.50	1.2	6.3	870	24.0	22.5	76	860	1											
22	287.67	1.7	6.3	833	24.0	22.0	77	600	1											
23	286.83	1.4	6.6	828	24.0	23.3	75	370	1											
24	249.47	1.2	6.6	828	24.0	26.4	71	198	1											
25	215.03	1.3	6.7	828	17.8	25.0	75	245	1											
26	119.80	2.1	6.5	373	14.0	25.2	86	190	1											
27	170.78	1.9	6.3	518	18.0	26.7	77	255	1											
28	215.30	2.1	6.3	691	24.0	26.7	73	285	1											
29	148.50	2.3	6.2	456	15.0	28.8	72	550	1											
30	262.20	1.7	6.2	623	24.0	27.2	83	385	1											
31	229.80	1.6	6.4	621	24.0	26.1	75	420	1											
TOTAL	5023.88	35.8	134.9	14728	439.1	498.1	1620	9993		0.00	0.0	0.0	0	0.0	0.0	0	0			
AVERAGE	162.06	1.2	4.4	475	14.2	16.1	52	322		0.00	0.0	0.0	0	0.0	0.0	0	0			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>	PERMIT NUMBER <b>M00022276</b>
MONITORING PERIOD	
YEAR <b>2015</b>	MONTH <b>12</b>
DAY <b>01</b>	DAY <b>2015</b>
MONTH <b>12</b>	DAY <b>31</b>

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed pH	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed pH	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct				Pct	Pct	mg/L		KGal	Pct				Pct	Pct	mg/L		
Day																			
1										260.06	1.6	6.7	291	24.0	11.5	81	790	LA	
2										290.00	1.9	6.2	291	24.0	11.5	84	1060	LA	
3										300.50	1.1	6.5	291	24.0	11.1	81	820	LA	
4										280.90	1.2	6.5	291	24.0	9.4	83	680	LA	
5										286.00	1.6	6.3	291	24.0	12.1	83	760	LA	
6										316.32	2.1	6.4	291	24.0	11.3	82	1050	LA	
7										309.28	1.4	6.4	291	24.0	11.4	81	510	LA	
8										314.00	1.5	6.6	291	23.0	11.5	82	870	LA	
9										314.00	1.5	6.4	291	24.0	11.8	85	1040	LA	
10										309.00	1.4	6.5	291	24.0	12.1	81	770	LA	
11										71.24	2.0	6.6	63	5.2	11.6	80	1100	LA	
12										0.00	0.0	0.0	0	0.0	0.0	0	0		
13										0.00	0.0	0.0	0	0.0	0.0	0	0		
14										0.00	0.0	0.0	0	0.0	0.0	0	0		
15										0.00	0.0	0.0	0	0.0	0.0	0	0		
16										0.00	0.0	0.0	0	0.0	0.0	0	0		
17										0.00	0.0	0.0	0	0.0	0.0	0	0		
18										0.00	0.0	0.0	0	0.0	0.0	0	0		
19										0.00	0.0	0.0	0	0.0	0.0	0	0		
20										0.00	0.0	0.0	0	0.0	0.0	0	0		
21										0.00	0.0	0.0	0	0.0	0.0	0	0		
22										0.00	0.0	0.0	0	0.0	0.0	0	0		
23										0.00	0.0	0.0	0	0.0	0.0	0	0		
24										0.00	0.0	0.0	0	0.0	0.0	0	0		
25										0.00	0.0	0.0	0	0.0	0.0	0	0		
26										0.00	0.0	0.0	0	0.0	0.0	0	0		
27										0.00	0.0	0.0	0	0.0	0.0	0	0		
28										0.00	0.0	0.0	0	0.0	0.0	0	0		
29										0.00	0.0	0.0	0	0.0	0.0	0	0		
30										0.00	0.0	0.0	0	0.0	0.0	0	0		
31										0.00	0.0	0.0	0	0.0	0.0	0	0		
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		3051.30	17.3	71.1	2973	244.2	125.3	903	9450		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		98.43	0.6	2.3	96	7.9	4.0	29	305		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR <b>2016</b>	MONTH <b>01</b>	FROM DAY <b>01</b>	TO DAY <b>31</b>

		CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF			
Day																					
1	239.11	2.0	6.4	862	24.0	25.1	75	290	1												
2	224.39	1.6	6.6	811	23.5	23.4	77	250	1												
3	236.50	1.9	6.3	828	24.0	23.0	77	290	1												
4	263.70	1.7	6.6	828	24.0	22.6	75	280	1												
5	273.80	1.4	6.4	856	24.0	21.5	77	540	1												
6	294.50	1.6	6.4	870	24.0	19.7	79	440	1												
7	327.05	1.4	6.6	883	24.0	21.5	76	400	1												
8	341.25	0.9	6.5	968	24.0	21.4	77	720	1												
9	378.20	0.7	6.5	976	24.0	22.1	77	340	1												
10	373.68	1.6	6.4	1034	24.0	20.7	76	505	1												
11	359.82	1.1	6.4	898	24.0	21.1	76	385	1												
12	371.64	1.4	6.4	891	24.0	21.3	79	353	1												
13	291.36	1.6	6.4	761	20.5	21.3	77	410	1												
14	359.00	1.1	6.6	929	24.0	21.1	78	1490	1												
15	345.10	1.3	6.6	981	24.0	18.3	78	1600	1												
16	327.40	1.5	6.5	1015	24.0	21.8	78	390	1												
17	320.60	1.8	6.3	1035	24.0	20.3	78	1620	1												
18	301.66	1.3	6.8	1035	24.0	20.1	76	810	1												
19	281.67	1.6	6.5	1035	24.0	19.6	79	350	1												
20	249.17	1.8	6.5	850	19.7	21.6	78	385	1												
21	305.50	1.5	6.5	1035	24.0	21.3	78	370	1												
22	345.90	1.6	6.5	954	23.2	21.6	84	390	1												
23	251.40	1.4	6.5	926	24.0	22.1	76	410	1												
24	249.60	1.7	6.6	912	24.0	21.9	79	510	1												
25	239.32	1.8	6.5	912	24.0	21.2	76	390	1												
26	217.15	1.9	6.6	912	24.0	23.0	78	360	1												
27	264.93	1.6	6.4	912	24.0	23.2	75	395	1												
28	253.67	1.4	6.7	912	24.0	22.5	76	420	1												
29	294.93	1.3	6.7	912	24.0	23.4	75	205	1												
30	294.80	1.4	6.4	912	24.0	23.6	73	330	1												
31	323.80	1.5	6.4	912	24.0	22.7	75	385	1												
TOTAL	9200.60	46.4	201.5	28557	734.9	674.0	2388	16013		0.00	0.0	0.0	0	0.0	0.0	0	0				
AVERAGE	296.79	1.5	6.5	921	23.7	21.7	77	517		0.00	0.0	0.0	0	0.0	0.0	0	0				

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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## CENTRIFUGE 1 AND 2

CITY OF BATTLE CREEK - WWTP

2000 WEST RIVER ROAD

CITY, STATE, ZIP CODE

BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		001		PERMIT NUMBER		M100022276	
MONITORING PERIOD:				FROM			
YEAR	MONTH	DAY		YEAR	MONTH	DAY	
2016	02	01		2016	02	29	
				TO			

CENTRIFUGE #1																			CENTRIFUGE #2																		
Para-meter Units	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF																			
Day																																					
1	299.69	1.4	6.6	912	24.0	22.8	71	360	1																												
2	305.71	1.6	6.4	912	24.0	22.3	76	180	1																												
3	265.50	1.8	6.5	912	24.0	22.6	80	380	1																												
4	286.05	1.4	6.7	900	24.0	26.0	68	270	1																												
5	255.40	0.9	6.7	912	24.0	25.6	72	300	1																												
6	247.60	1.5	6.6	875	23.8	23.5	75	290	1																												
7	231.56	1.6	6.7	870	24.0	21.2	78	335	1																												
8	212.84	1.5	6.4	832	22.9	21.8	74	265	1																												
9	228.10	1.9	6.6	870	24.0	22.7	80	325	1																												
10	219.20	1.5	6.3	870	24.0	23.2	84	390	1																												
11	205.70	1.1	6.6	898	24.0	23.3	74	480	1																												
12	199.00	1.6	6.7	870	24.0	21.9	77	330	1																												
13	190.50	1.4	6.5	870	24.0	21.8	78	360	1																												
14	191.10	1.6	6.4	870	24.0	21.8	78	760	1																												
15	198.60	1.7	6.6	936	24.0	22.2	75	530	1																												
16	177.80	1.5	6.6	845	22.2	21.5	80	670	1																												
17	197.56	1.5	6.5	996	24.0	23.4	78	630	1																												
18	214.44	1.4	6.7	1035	24.0	23.3	72	700	1																												
19	200.00	1.8	6.7	989	24.0	22.8	74	660	1																												
20	193.50	1.4	6.8	933	24.0	19.7	78	540	1																												
21	209.39	1.3	6.7	943	24.0	20.2	78	1160	1																												
22	183.11	0.4	6.8	949	24.0	20.9	76	128	1																												
23	178.00	0.9	6.8	933	24.0	21.6	76	300	1																												
24	218.47	1.1	6.6	933	24.0	21.1	78	580	1																												
25	220.13	1.3	6.8	933	24.0	22.0	76	650	1																												
26	245.20	1.0	6.8	933	24.0	20.8	79	550	1																												
27	220.50	1.0	6.8	933	24.0	21.5	78	480	1																												
28	218.56	1.0	6.7	933	24.0	20.5	76	320	1																												
29	219.06	0.9	6.7	933	24.0	22.5	74	355	1																												
TOTAL	6432.27	39.0	192.3	26530	692.9	644.5	2213	13278		0.00	0.0	0.0	0	0.0	0.0	0	0																				
AVERAGE	221.80	1.3	6.6	915	23.9	22.2	76	458		0.00	0.0	0.0	0	0.0	0.0	0	0																				

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DATE

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

CENTRIFUGE 1 AND 2

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI0002276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2016	03	01	31

CENTRIFUGE #1																			CENTRIFUGE #2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF										
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L											
Day																												
1	207.67	1.0	6.7	935	24.0	21.1	77	790	1																			
2	214.40	1.4	6.7	954	24.0	21.3	76	550	1																			
3	228.37	1.3	6.8	1036	24.0	21.3	76	600	1																			
4	220.63	1.2	6.8	1077	24.0	22.1	75	560	1																			
5	190.00	1.2	6.8	993	24.0	21.5	77	305	1																			
6	167.10	1.2	6.7	996	24.0	21.4	76	270	1																			
7	158.90	1.3	6.8	993	24.0	22.6	76	270	1																			
8	136.00	1.5	6.6	918	24.0	23.6	78	305	1																			
9	138.70	1.6	6.6	797	24.0	21.6	81	285	1																			
10	130.30	1.4	6.7	842	24.0	22.7	76	400	1																			
11	142.00	1.7	6.7	926	24.0	22.7	76	420	1																			
12	132.70	1.1	6.6	880	24.0	22.4	77	330	1																			
13	122.40	1.7	6.4	870	24.0	21.3	76	365	1																			
14	106.90	0.7	6.7	719	19.8	22.0	76	600	1																			
15	128.03	1.3	6.7	903	24.0	21.8	78	540	1																			
16	131.92	1.7	6.5	877	24.0	21.7	77	690	1																			
17	137.52	1.8	6.7	858	24.0	28.2	63	525	1																			
18	144.77	1.8	6.4	993	24.0	22.1	76	430	1																			
19	149.91	1.2	6.7	891	24.0	23.3	74	500	1																			
20	144.42	1.4	6.4	994	24.0	19.9	77	1540	1																			
21	7.30	1.4	6.4	50	1.0	21.8	75	930	1																			
22	0.00	0.0	0.0	0	0.0	0.0	0	0																				
23	0.00	0.0	0.0	0	0.0	0.0	0	0																				
24	0.00	0.0	0.0	0	0.0	0.0	0	0																				
25	0.00	0.0	0.0	0	0.0	0.0	0	0																				
26	0.00	0.0	0.0	0	0.0	0.0	0	0																				
27	0.00	0.0	0.0	0	0.0	0.0	0	0																				
28	0.00	0.0	0.0	0	0.0	0.0	0	0																				
29	0.00	0.0	0.0	0	0.0	0.0	0	0																				
30	0.00	0.0	0.0	0	0.0	0.0	0	0																				
31	0.00	0.0	0.0	0	0.0	0.0	0	0																				
TOTAL	3139.94	28.9	139.4	18502	476.8	466.4	1593	11215		0.00	0.0	0.0	0	0.0	0.0	0	0											
AVERAGE	101.29	0.9	4.5	597	15.4	15.0	51	362		0.00	0.0	0.0	0	0.0	0.0	0	0											

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2016	03	01	2016 03 31

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21										213.84	1.4	6.5	193	16.2	7.6	80	940		LA
22										332.00	1.4	6.6	312	24.0	11.4	81	1110		LA
23										375.56	1.8	6.4	328	24.0	11.5	80	1520		LA
24										363.34	1.6	6.6	431	24.0	12.4	81	2160		LA
25										199.74	0.5	6.5	280	12.0	11.7	83	1380		LA
26										405.32	1.5	6.6	540	24.0	11.5	86	1120		LA
27										350.56	1.8	6.6	470	24.0	12.7	79	1750		LA
28										190.22	1.8	6.4	200	14.5	10.9	80	1470		LA
29										301.32	1.8	6.7	352	24.0	12.1	80	1160		LA
30										278.80	1.8	6.5	330	24.0	13.0	76	930		LA
31										321.00	2.1	6.6	464	24.0	12.6	78	1520		LA
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		3331.70	17.5	72.0	3900	234.7	127.4	884	15060		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		302.88	1.6	6.5	365	21.3	11.6	80	1369		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

MONITORING PERIOD:		FROM	TO	
YEAR	MONTH	DAY	YEAR	MONTH
2016	04	01	2016	04
DISCHARGE NUMBER			PERMIT NUMBER	
001			MI00022276	

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate	Output	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate	Output	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	Solids	To MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	Solids	To MHF	
1										204.96	2.4	6.4	254	14.8	13.6	79	1380	LA	
2										307.54	1.8	6.2	294	24.0	12.4	83	1300	LA	
3										284.70	2.0	6.5	207	24.0	11.0	79	1020	LA	
4										278.71	1.6	6.5	207	24.0	11.4	78	1220	LA	
5										282.04	1.8	6.4	248	24.0	12.3	81	950	LA	
6										271.15	1.5	6.4	249	24.0	12.3	79	860	LA	
7										305.42	1.7	6.4	249	24.0	12.8	79	1500	LA	
8										323.18	1.6	6.4	226	24.0	11.4	84	1440	LA	
9										331.10	1.4	6.4	214	24.0	10.7	88	820	LA	
10										310.47	1.0	6.3	249	24.0	11.3	82	960	LA	
11										344.03	1.5	6.5	270	24.0	12.5	80	1280	LA	
12										361.60	1.7	6.2	256	24.0	12.6	83	1120	LA	
13										356.30	1.2	6.4	249	24.0	13.4	88	1220	LA	
14										327.20	1.2	6.4	270	24.0	12.0	83	890	LA	
15										332.70	1.2	6.3	270	24.0	11.5	84	1080	LA	
16										330.20	1.1	6.3	270	24.0	12.9	82	1190	LA	
17										305.46	0.5	6.5	270	24.0	13.0	82	1110	LA	
18										321.02	1.5	6.3	270	24.0	11.6	81	1240	LA	
19										344.12	1.4	6.3	270	24.0	11.7	85	1160	LA	
20										361.10	1.2	6.2	270	24.0	11.7	88	1050	LA	
21										360.90	1.5	6.4	336	24.0	11.8	83	1440	LA	
22										346.08	1.6	6.3	372	24.0	11.9	80	1180	LA	
23										371.91	1.5	6.9	372	24.0	10.8	82	930	LA	
24										356.79	1.5	6.3	372	24.0	11.0	86	740	LA	
25										266.12	0.9	6.8	304	20.0	8.6	83	1130	LA	
26										380.10	1.6	6.2	297	24.0	10.8	89	1800	LA	
27										370.30	1.7	6.2	372	24.0	10.7	83	620	LA	
28										418.30	1.8	6.2	380	24.0	11.1	81	2040	LA	
29										372.45	1.2	6.6	435	24.0	11.2	83	2180	LA	
30										385.05	1.3	6.3	435	24.0	11.9	81	1270	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		9910.00	43.9	191.5	8737	706.8	351.9	2479	36120		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		330.33	1.5	6.4	291	23.6	11.7	83	1204		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEES ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR <b>2016</b>	MONTH <b>05</b>	DAY <b>01</b>	TO YEAR <b>2016</b> MONTH <b>05</b> DAY <b>31</b>

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L		KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L		
Day																			
1										374.10	1.0	6.2	435	24.0	11.9	87	2660		LA
2										385.20	1.2	6.6	435	24.0	11.5	82	1070		LA
3										367.40	1.5	6.4	456	24.0	11.5	84	1340		LA
4										123.86	3.0	6.0	297	24.0	10.6	84	2480		LA
5										146.18	4.7	5.7	346	24.0	10.4	80	6600		LA
6										169.92	5.8	5.8	442	24.0	11.2	79	15600		LA
7										142.30	5.4	5.7	372	24.0	10.5	80	970		LA
8										149.80	5.9	5.8	487	24.0	10.5	82	5650		LA
9										137.75	5.6	5.9	452	24.0	11.0	82	1850		LA
10										133.25	5.3	5.8	452	24.0	11.8	80	3100		LA
11										126.67	6.0	5.7	456	24.0	11.3	86	2450		LA
12										126.33	5.8	5.9	424	24.0	11.4	79	1940		LA
13										130.20	4.9	6.1	411	24.0	10.9	80	2100		LA
14										124.10	4.1	6.2	414	24.0	11.3	80	910		LA
15										119.39	5.3	6.0	381	24.0	11.5	80	1400		LA
16										116.61	5.1	6.0	439	24.0	11.2	81	1310		LA
17										129.43	4.8	6.1	372	24.0	10.2	87	1510		LA
18										127.37	5.4	6.0	372	24.0	10.6	86	1580		LA
19										168.25	4.0	6.2	399	24.0	11.8	79	2860		LA
20										312.55	2.0	6.5	414	24.0	11.2	80	1720		LA
21										307.00	0.8	6.7	414	24.0	11.5	82	2200		LA
22										299.59	2.3	6.4	475	21.0	13.1	79	1980		LA
23										232.91	2.4	6.1	361	16.8	9.0	82	1860		LA
24										322.30	1.5	6.5	414	24.0	10.9	84	2640		LA
25										316.10	2.2	6.4	423	24.0	11.2	83	4700		LA
26										255.56	2.1	6.3	438	24.0	11.7	80	1800		LA
27										145.79	4.3	6.0	456	24.0	11.7	79	2820		LA
28										156.10	3.7	6.0	456	24.0	11.5	80	1700		LA
29										153.60	4.9	5.8	456	24.0	11.9	79	1240		LA
30										127.93	4.0	6.1	456	24.0	11.8	78	1040		LA
31										107.17	4.2	6.0	376	22.0	9.0	83	1000		LA
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		6034.71	119.2	188.9	12981	731.8	345.6	2527	82080		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		194.67	3.8	6.1	419	23.6	11.1	82	2648		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2016	06	01	2016 06 30

CENTRIFUGE #3																			CENTRIFUGE #4																		
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To																			
Units	KGal	Pct	pH			Pct	Pct	mg/L	MHF	KGal	Pct	pH			Pct	Pct	mg/L	MHF																			
Day																																					
1										133.20	5.3	6.0	400	24.0	11.3	71	1500	L																			
2										130.60	4.3	6.1	441	24.0	11.1	74	1060	L																			
3										137.60	4.5	6.2	441	24.0	10.8	78	1360	L																			
4										117.90	3.7	6.2	426	24.0	11.0	78	780	L																			
5										100.00	4.8	6.1	396	24.0	10.7	79	1020	L																			
6										64.64	4.4	6.1	277	15.5	8.8	80	820	L																			
7										136.90	5.4	6.1	318	23.2	10.9	79	1330	L																			
8										132.99	5.2	5.8	351	24.0	11.2	85	1940	L																			
9										121.71	3.8	6.0	351	24.0	11.3	78	1650	L																			
10										117.90	5.1	6.1	351	24.0	11.5	81	1170	L																			
11										131.70	4.2	6.1	351	24.0	11.3	82	1020	L																			
12										123.30	4.4	6.0	351	24.0	10.5	84	1160	L																			
13										98.88	4.7	6.0	351	24.0	10.8	80	880	L																			
14										126.82	4.7	6.0	351	24.0	12.5	80	1880	L																			
15										115.20	4.2	5.7	351	24.0	11.0	84	1760	L																			
16										132.00	4.5	6.0	351	24.0	10.6	78	1440	L																			
17										109.40	4.7	5.7	351	24.0	11.1	79	1350	L																			
18										131.30	4.8	5.8	351	24.0	11.8	79	1860	L																			
19										121.84	5.0	5.7	351	24.0	11.4	80	1760	L																			
20										137.30	4.6	5.6	351	24.0	13.0	76	1780	L																			
21										152.70	5.5	5.7	351	24.0	12.2	80	5000	L																			
22										141.20	5.6	6.0	351	24.0	11.7	78	2633	L																			
23										148.47	5.1	6.0	351	24.0	11.5	82	960	L																			
24										116.53	5.2	6.0	351	24.0	11.5	82	1320	L																			
25										120.80	3.9	6.0	351	24.0	12.0	78	960	L																			
26										94.45	4.7	5.9	351	24.0	12.1	77	1060	L																			
27										96.85	4.6	5.8	351	24.0	9.0	80	920	L																			
28										181.10	3.6	6.0	366	24.0	12.8	77	1560	L																			
29										267.00	2.6	6.2	366	24.0	12.5	79	1060	L																			
30										236.20	1.5	6.7	396	23.2	11.7	77	660	L																			
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		3975.48	134.6	179.6	10877	709.9	339.6	2375	43653																				
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		132.52	4.5	6.0	363	23.7	11.3	79	1455																				

No Cake sample was collected by operations for analysis on 6/4/16, 7 day average used.

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2016	07	01	2016 07 31

CENTRIFUGE #3											CENTRIFUGE #4										
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF		Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF		
Day																					
1											266.80	2.2	6.5	396	24.0	13.2	79	950	L		
2											260.00	1.5	6.7	386	24.0	11.1	77	400	L		
3											249.70	2.4	6.4	375	24.0	12.4	75	600	L		
4											276.45	2.0	6.5	450	24.0	12.4	76	740	L		
5											258.45	1.8	6.3	441	24.0	12.0	79	660	L		
6											268.10	1.4	6.4	441	24.0	11.8	80	490	L		
7											284.70	1.8	6.5	426	24.0	13.2	75	530	L		
8											295.80	2.1	6.4	351	24.0	12.1	79	1180	L		
9											256.80	1.4	6.7	351	24.0	8.9	76	420	L		
10											252.20	1.9	6.2	351	24.0	13.6	82	420	L		
11											273.04	1.7	6.7	351	24.0	12.9	76	850	L		
12											272.00	1.9	6.3	351	24.0	9.0	82	780	L		
13											275.00	1.9	6.4	351	24.0	13.2	75	610	L		
14											269.00	2.0	6.5	351	24.0	14.1	71	1180	L		
15											301.50	2.3	6.2	351	24.0	12.3	75	1230	L		
16											265.30	1.6	6.4	351	24.0	11.4	83	860	L		
17											267.00	2.4	6.3	351	24.0	12.4	78	1230	L		
18											277.80	2.9	6.3	351	24.0	13.3	70	1790	L		
19											242.40	1.9	6.5	351	24.0	10.0	78	760	L		
20											235.40	2.6	6.4	351	24.0	12.6	79	760	L		
21											253.60	2.0	6.4	351	24.0	12.6	77	610	L		
22											256.30	2.0	6.3	351	24.0	12.0	78	780	L		
23											249.20	1.0	6.5	117	24.0	8.3	82	670	L		
24											246.30	2.5	6.1	309	24.0	12.1	79	640	L		
25											242.20	2.4	6.3	309	24.0	12.4	75	340	L		
26											242.00	2.1	6.0	309	24.0	11.6	79	690	L		
27											260.30	1.9	6.3	309	24.0	11.9	80	620	L		
28											280.70	1.5	6.3	309	24.0	10.8	81	520	L		
29											250.90	1.7	6.4	309	24.0	10.8	81	485	L		
30											260.10	1.7	6.4	309	24.0	11.1	83	420	L		
31											259.60	2.2	6.4	292	22.7	11.3	80	610	L		
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0			8146.64	60.7	198.0	10752	742.7	366.8	2420	22825			
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0			262.86	2.0	6.4	347	24.0	11.8	78	736			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI0002276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2016	08	01	2016 08 31

CENTRIFUGE #3											CENTRIFUGE #4										
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To		Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To		
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF		KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF		
Day																					
1											280.60	1.7	6.4	309	24.0	11.6	79	600		LA	
2											240.80	1.8	6.6	309	24.0	10.9	82	445		LA	
3											260.20	2.2	6.2	309	24.0	12.1	83	530		LA	
4											258.60	1.7	6.4	309	24.0	11.8	83	340		LA	
5											253.30	1.8	6.7	309	24.0	12.6	81	350		LA	
6											256.90	1.4	6.7	309	24.0	13.3	79	420		LA	
7											279.00	2.3	6.4	309	24.0	12.6	76	570		LA	
8											271.42	1.7	6.6	309	24.0	10.0	79	495		LA	
9											281.20	1.5	6.6	309	24.0	11.4	82	580		LA	
10											292.58	1.4	6.5	309	24.0	10.4	80	390		LA	
11											241.80	1.3	6.6	309	24.0	12.4	79	390		LA	
12											245.50	1.8	6.4	309	24.0	10.2	76	400		LA	
13											259.50	0.2	6.6	309	24.0	9.3	78	430		LA	
14											273.10	1.6	6.2	309	24.0	11.0	76	520		LA	
15											214.90	1.6	6.4	212	16.5	12.4	72	770		LA	
16											276.00	1.9	6.2	329	24.0	14.2	68	713		LA	
17											333.70	2.0	6.4	417	24.0	11.0	71	610		LA	
18											332.10	1.0	6.7	417	24.0	13.4	69	610		LA	
19											323.10	1.9	6.5	417	24.0	12.4	76	590		LA	
20											328.46	1.4	6.7	417	24.0	11.9	76	460		LA	
21											307.64	1.8	6.4	417	24.0	11.6	80	650		LA	
22											299.80	1.8	6.7	413	23.8	12.0	76	490		LA	
23											300.70	1.8	6.6	409	23.5	11.6	78	650		LA	
24											239.50	2.0	6.6	348	20.0	11.6	81	490		LA	
25											299.20	1.3	6.7	417	24.0	12.0	79	660		LA	
26											230.70	1.7	6.5	348	20.0	12.1	80	645		LA	
27											246.70	1.3	6.7	417	24.0	12.4	79	450		LA	
28											238.40	1.9	6.7	417	24.0	11.8	81	410		LA	
29											245.00	1.4	6.8	417	24.0	13.0	76	310		LA	
30											232.00	1.9	6.7	401	23.0	8.6	82	495		LA	
31											235.00	1.2	6.7	417	24.0	13.9	76	425		LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0.0	0	0		8377.40	50.3	202.9	10956	726.8	365.5	2413	15888			
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0.0	0	0		270.24	1.6	6.5	353	23.4	11.8	78	513			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DATE



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	MI00022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR MONTH DAY
2016	09	01	2016 09 30

CENTRIFUGE #3												CENTRIFUGE #4											
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To					
Units	KGal	Pct	pH			Pct	Pct	mg/L	MHF	KGal	Pct	pH			Pct	Pct	mg/L	MHF					
Day																							
1										237.00	1.5	6.7	417	24.0	13.1	78	280	L					
2										254.00	1.9	6.7	417	24.0	12.2	79	365	L					
3										227.50	1.2	6.8	417	24.0	12.8	79	280	L					
4										245.80	2.2	6.5	417	24.0	12.7	79	390	L					
5										220.70	2.0	6.7	417	24.0	14.0	76	390	L					
6										228.25	1.9	6.6	417	24.0	13.3	79	515	L					
7										224.67	2.4	6.6	417	24.0	14.3	78	520	L					
8										262.58	1.2	6.6	417	24.0	14.3	72	530	L					
9										271.30	2.0	6.4	417	24.0	13.1	75	560	L					
10										254.70	1.1	6.3	417	24.0	12.9	78	535	L					
11										277.24	3.2	6.2	417	24.0	13.1	79	630	L					
12										300.26	1.1	6.5	417	24.0	11.8	80	540	L					
13										305.00	1.8	6.6	417	24.0	11.8	81	690	L					
14										307.00	2.2	6.4	417	24.0	11.6	81	520	L					
15										290.67	1.6	6.6	417	24.0	12.2	81	600	L					
16										297.03	1.8	6.6	417	24.0	12.3	84	780	L					
17										217.15	2.0	6.6	304	17.2	11.8	80	700	L					
18										286.22	2.1	6.6	417	24.0	11.5	84	490	L					
19										297.67	1.9	6.6	417	24.0	12.0	79	1120	L					
20										216.42	1.8	6.5	366	20.0	12.5	77	535	L					
21										232.25	1.8	6.3	359	19.0	12.1	78	1050	L					
22										294.40	1.3	6.4	512	23.5	11.8	80	450	L					
23										161.60	1.4	6.5	394	18.2	12.0	81	340	L					
24										260.30	1.4	6.6	441	24.0	10.4	86	410	L					
25										262.70	2.2	6.7	432	23.5	10.9	78	495	L					
26										283.80	1.6	6.4	441	24.0	10.5	79	410	L					
27										246.20	1.7	6.2	413	22.5	10.4	81	404	L					
28										155.10	1.6	6.3	266	14.5	12.9	86	560	L					
29										233.90	1.9	6.2	441	24.0	10.4	80	430	L					
30										249.80	1.8	6.4	441	24.0	10.1	82	500	L					
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		7601.21	53.6	195.1	12316	686.4	364.8	2390	16019						
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		253.37	1.8	6.5	411	22.9	12.2	80	534						

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	
CITY OF BATTLE CREEK - WWTP	
PERMITTEES ADDRESS	
2000 WEST RIVER ROAD	
CITY, STATE, ZIP CODE	
BATTLE CREEK, MICHIGAN 49037	

MONITORING PERIOD:				FROM				TO			
YEAR	MONTH	DAY		YEAR	MONTH	DAY		YEAR	MONTH	DAY	
2016	10	01		2016	10	31					

DISCHARGE NUMBER	PERMIT NUMBER
001	M000022276

	CENTRIFUGE #3										CENTRIFUGE #4									
	Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	Kgal	Pct	pH				Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L		
Day																				
1											255.00	1.4	6.5	441	24.0	10.3	82	570	L	
2											260.70	1.8	6.5	441	24.0	10.4	84	600	L	
3											258.50	1.8	6.7	441	24.0	9.2	82	440	L	
4											227.00	1.7	6.4	377	20.5	11.6	81	1190	L	
5											281.50	2.2	6.3	441	24.0	10.6	81	1580	L	
6											283.50	1.4	6.6	441	24.0	10.8	80	1430	L	
7											298.70	1.6	6.5	441	24.0	11.2	81	1120	L	
8											247.95	1.4	6.4	441	24.0	11.5	81	790	L	
9											235.05	2.1	6.4	441	24.0	12.8	82	510	L	
10											242.30	2.1	6.4	441	24.0	11.8	80	450	L	
11											251.40	1.6	6.4	441	24.0	10.1	84	680	L	
12											262.60	1.6	6.3	441	24.0	10.0	83	510	L	
13											269.67	1.4	6.6	441	24.0	10.3	82	680	L	
14											285.83	2.4	6.4	441	24.0	10.4	82	610	L	
15											268.30	1.5	6.6	441	24.0	11.0	79	640	L	
16											289.40	1.9	6.4	441	24.0	10.6	82	1140	L	
17											255.80	2.0	6.4	441	24.0	12.1	74	930	L	
18											261.50	2.1	6.6	422	23.0	12.1	80	1120	L	
19											268.67	1.9	6.7	441	24.0	13.6	77	1600	L	
20											186.03	2.3	6.1	321	24.0	10.7	78	500	L	
21											110.80	4.3	6.0	219	24.0	10.9	84	990	L	
22											110.48	4.1	6.3	219	24.0	10.6	81	780	L	
23											111.42	5.5	5.9	219	24.0	10.8	81	1000	L	
24											96.10	4.7	6.2	219	24.0	10.0	83	780	L	
25											101.35	4.2	6.3	219	24.0	10.5	82	750	L	
26	27.84	2.4	6.0	42	1.0	23.9	82	310	LF		137.15	2.3	6.3	161	13.0	10.2	82	1440	L	
27	93.40	1.8	6.6	162	9.0			1680	LF		288.13	1.8	6.5	190	13.0	11.3	79	940	L	
28	294.60	2.2	6.4	375	24.0			1050	LA											
29	289.55	1.9	6.2	375	24.0			690	LA											
30	284.45	3.0	6.4	375	24.0	10.6	82	800	LA											
31	266.34	2.4	6.6	375	24.0	10.7	77	840	LA											
TOTAL	1256.18	13.7	38.2	1704	106.0	45.2	241	5370			6144.83	63.1	172.7	10063	621.5	295.4	2187	23770		
AVERAGE	209.36	2.3	6.4	284	17.7	15.1	80	895			227.59	2.3	6.4	373	23.0	10.9	81	880		
No samples collected.																				

No samples collected!

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	M100022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR MONTH DAY
2016	11	01	2016 11 30

	CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF		
Day																				
1	260.86	2.3	6.6	375	24.0	10.7	82	740	LA											
2	218.84	1.5	6.5	300	19.2	9.8	79	1320	LA	45.00	2.2	6.4	68	4.0	12.4	84	1150	LA		
3										271.20	1.6	6.6	417	24.0	12.2	79	870	LA		
4										253.80	1.9	6.6	401	24.0	11.2	83	660	LA		
5										270.40	2.0	6.5	396	24.0	11.3	81	780	LA		
6										269.10	2.0	6.5	396	24.0	12.2	79	860	LA		
7										261.90	1.7	6.6	396	24.0	12.0	80	830	LA		
8	29.88	2.3	6.5	61	3.0	11.3	84	1660	LA	208.30	2.2	6.7	322	19.5	12.2	80	3180	LA		
9		2.2	6.5	139	8.0	13.1	80	760	LA	279.45	1.5	6.3	239	14.5	10.4	84	880	LA		
10	283.74	1.2	6.5	239	24.0	13.1	76	790	LA											
11	277.40	1.7	6.5	396	24.0	11.8	76	820	LA											
12	270.20	1.5	6.5	396	24.0	12.0	80	580	LA											
13	253.50	1.4	6.5	396	24.0	11.9	79	560	LA											
14	242.00	1.7	6.7	396	24.0	11.4	80	390	LA											
15	264.70	1.1	6.6	396	24.0	11.7	82	660	LA											
16	233.30	1.4	6.5	396	24.0	9.8	81	380	LA											
17	146.30	2.2	6.3	374	24.0	10.2	81	240	LA											
18	57.56	5.7	6.2	121	16.0	6.4	82	980	LA											
19	55.14	5.0	5.9	114	12.5	9.6	81	3560	LA											
20	98.56	5.6	5.8	264	24.0	12.0	80	1420	LA											
21	83.44	5.4	5.8	264	24.0	12.2	76	1290	LA											
22	83.32	6.2	6.1	264	24.0	12.1	77	1090	LA											
23	88.48	4.7	5.7	264	24.0	11.9	79	3340	LA											
24	105.00	5.2	5.6	264	24.0	12.7	76	2180	LA											
25	93.30	4.8	5.8	264	24.0	12.1	76	1380	LA											
26	87.30	4.4	6.1	264	24.0	12.6	72	1020	LA											
27	87.06	5.0	6.8	264	24.0	11.6	81	1000	LA											
28	97.40	6.6	6.0	264	24.0	11.6	80	1500	LA											
29	86.08	5.9	6.2	264	24.0	11.4	80	1440	LA											
30	86.60	4.5	5.6	264	24.0	11.3	81	1840	LA											
TOTAL	3569.96	89.5	155.8	7003	538.7	284.3	1981	30940		1859.15	15.1	52.2	2635	158.0	93.9	650	9210			
AVERAGE	149.58	3.6	6.2	280	21.5	11.4	79	1238		232.39	1.9	6.5	329	19.8	11.7	81	1151			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

## CENTRIFUGE 1 AND 2

BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		M100022276	

MONITORING PERIOD:		FROM		TO	
YEAR	MONTH	DAY	YEAR	MONTH	DAY
2016	12	01	2016	12	31



## CENTRIFUGE 3 &amp; 4

CITY OF BATTLE CREEK - WWTP

2000 WEST RIVER ROAD

CITY, STATE, ZIP CODE

BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		M100022276	
MONITORING PERIOD:			
FROM		TO	
YEAR	MONTH	DAY	PERMIT NUMBER
2016	12	01	2016 12 31

CENTRIFUGE #3										CENTRIFUGE #4										
Para- meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To		
Units	KGal	Pct	pH			Pct	Pct	mg/L	MHF	KGal	Pct	pH			Pct	Pct	mg/L	MHF		
Day																				
1	105.80	4.7	5.7	264	24.0	12.6	78	2160	LA											
2	81.40	5.0	5.4	211	19.0	12.8	73	2400	LA											
3	93.40	4.8	5.4	285	24.0	12.2	80	1440	LA											
4	90.00	6.8	5.3	285	24.0	12.5	78	1240	LA											
5	93.30	4.5	5.5	285	24.0	14.6	78	1140	LA											
6	92.90	5.2	5.7	285	24.0	13.4	77	1400	LA											
7	95.10	4.8	5.5	253	23.0	11.7	82	1600	LA											
8	105.60	4.9	5.5	264	24.0	12.0	84	2100	LA											
9	106.00	4.9	5.7	264	24.0	11.2	82	2120	LA											
10	84.40	4.6	5.7	264	24.0	9.4	86	700	LA											
11	88.90	6.5	5.7	264	24.0	9.7	81	1320	LA											
12	95.10	5.0	6.1	264	24.0	11.2	82	1520	LA											
13	93.90	4.9	6.1	253	23.0	11.5	81	1940	LA											
14	87.40	5.8	5.7	264	24.0	12.2	82	1420	LA											
15	92.20	4.7	5.9	264	24.0	12.4	80	1580	LA											
16	89.10	4.6	5.7	264	24.0	10.7	81	1620	LA											
17	95.32	5.0	5.6	264	24.0	12.2	78	2440	LA											
18	97.98	5.5	5.6	264	24.0	12.9	78	2640	LA											
19	87.20	5.6	5.7	264	24.0	11.4	78	2620	LA											
20	98.80	5.3	5.6	264	24.0	12.3	84	2180	LA											
21	40.75	5.9	5.9	99	9.0	12.1	68	5260	LA											
22																				
23																				
24																				
25																				
26																				
27	36.65	8.1	6.2	257	7.0	15.1	74	4400	LF											
28	147.20	6.6	6.0	879*	24.0	24.3	83	2630	LF											
29	130.43	6.0	6.0	888	21.5	28.8	72	1220	LF											
30	8.08			77	2.0															
31	125.65	5.6	5.6	411	14.0	27.6	75	1130	LF											
TOTAL	2362.56	135.3	142.8	7800	550.5	346.8	1975	50220		0.00	0.0	0.0	0	0.0	0.0	0	0			
AVERAGE	90.87	5.4	5.7	304	21.2	13.9	79	2009		0.00	0.0	0.0	0	0.0	0.0	0	0			
No sample was collected for Feed, Cake or Centrate on 12/30/16																				
PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP										SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT									DATE	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2017	01	01	31

CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L		KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L		
Day																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11										9.21	7.5	5.5	149	3.0	21.4	81	4850	FL	
12																			
13																			
14																			
15																			
16																			
17																			
18										62.13	5.7	5.1	330	12.0	23.6	78	300	LF	
19										89.42	3.4	6.0	1058	24.0	23.6	76	1480	LF	
20										58.18	5.8	5.5	672	15.2	23.3	79	1470	LF	
21										0.00			0	0.0					
22										21.13	5.2	5.3	231	7.0	21.1	77	550	LF	
23										89.25	5.4	5.7	862	23.0	21.8	78	6180	LF	
24										83.82	5.2	5.6	969	24.0	20.9	79	2780	LF	
25										83.40	5.3	5.6	969	24.0	22.0	78	990	LF	
26										142.30	3.3	5.6	969	24.0	20.3	79	790	LF	
27										115.05	1.8	6.5	565	14.0	22.0	80	485	LF	
28										0.00			0	0.0					
29										78.90	5.9	5.8	744	15.0	20.6	78	3480	LF	
30										92.73	4.4	5.7	1144	24.0	20.5	76	730	LF	
31										87.37	5.1	5.9	1128	24.0	22.0	76	840	LF	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		1012.89	64.0	73.8	9790	233.2	283.1	1015	24925		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		67.53	4.9	5.7	653	15.5	21.8	78	1917		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
FROM	TO	YEAR	DAY
2017 01	2017 01	2017	31

CENTRIFUGE #3												CENTRIFUGE #4											
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To					
Units	KGal	Pct	pH			Pct	Pct	mg/L	MHF	KGal	Pct	pH			Pct	Pct	mg/L	MHF					
Day																							
1	0.00			0	0.0																		
2	35.63	3.4	5.7	463	8.5	17.2	76	400	LF														
3	18.32	3.2	5.7	50	1.0	19.6	80	3200	LF														
4	165.91	3.9	5.4	728	22.0	23.8	75	5700	LF														
5	146.05	3.9	5.4	738	19.0	27.3	76	6920	LF														
6	150.12	5.3	5.4	760	19.0	25.2	77	1750	LF														
7	72.34	4.6	5.4	370	8.5	24.3	75	15250	LF														
8	0.00			0	0.0																		
9	24.45	5.4	5.6	168	4.0	21.4	75	18350	LF														
10	139.00	6.0	5.6	1157	24.0	20.3	78	6900	LF														
11	75.76	4.9	5.6	593	12.0	21.1	84	5067	LF														
12	121.34	5.2	5.6	1095	24.0	21.5	79	2360	LF														
13	120.30	5.0	5.4	1146	24.0	20.9	80	3620	LF														
14	60.13	5.1	5.4	597	12.5	24.1	78	860	LF														
15	0.00			0	0.0																		
16	29.57	6.1	5.4	380	8.0	24.6	76	920	LF														
17	78.22	6.2	5.4	814	15.0	22.8	83	2110	LF														
18	94.45	7.3	5.2	991	20.0	23.6	78	5150	LF														
19	105.78	4.1	5.4	970	24.0	23.2	76	4940	LF														
20	60.77	3.6	5.5	537	15.3	21.5	77	2500	LF														
21	0.00			0	0.0																		
22	19.94	4.9	5.4	231	7.0	19.6	76	670	LF														
23	105.20	5.1	5.5	862	23.0	21.1	76	1630	LF														
24	94.50	5.4	5.6	969	24.0	20.6	80	3040	LF														
25	92.50	5.4	5.6	969	24.0	22.0	77	740	LF														
26	145.15	3.9	5.6	969	24.0	22.5	76	1200	LF														
27	113.06	1.8	6.5	565	14.0	23.1	79	540	LF														
28	0.00			0	0.0																		
29	19.59	5.6	5.8	281	6.0	20.8	78	620	LF														
30	89.90	5.5	5.6	1122	24.0	22.2	76	1180	LF														
31	93.20	5.0	6.0	1103	24.0	22.9	79	835	LF														
TOTAL	2271.18	125.8	144.7	18628	430.8	577.2	2020	96652		0.00	0.0	0.0	0	0.0	0.0	0	0	0					
AVERAGE	73.26	4.8	5.6	601	13.9	22.2	78	3717		0.00	0.0	0.0	0	0.0	0.0	0	0	0					
No samples taken on these days.																							
PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT RICHARD E. BEARSLIE, SUPERINTENDENT WWTP												SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT								DATE			

No samples taken on these days.

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



## CENTRIFUGE 1 AND 2

BATTLE CREEK, MICHIGAN 49037

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEES ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>M100022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2017	02	01	28

CENTRIFUGE # 3												CENTRIFUGE # 4											
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Output MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Output MHF	Feed Sludge	Feed Solids	Feed Sludge
Units	KGal	Pct	pH			Pct	Pct	mg/L			KGal	Pct	pH			Pct	Pct	mg/L			KGal	Pct	pH
Day																							
1	119.40	4.8	5.8	1101	24.0	23.1	87	510	LF														
2	88.90	4.8	5.9	1101	24.0	23.3	77	760	LF														
3	42.54	5.0	5.8	619	13.5	22.6	76	987	LF														
4	0.00			0	0.0																		
5	23.36	4.8	5.5	367	8.0	23.5	83	3600	LF														
6	74.30	5.1	5.7	1119	24.0	22.7	75	1460	LF														
7	79.20	5.5	5.6	936	19.0	21.9	79	905	LF														
8	78.40	5.0	5.7	1123	24.0	21.8	83	1030	LF														
9	101.40	5.1	5.9	1050	24.0	23.1	76	660	LF														
10	68.77	3.5	5.6	424	8.3	20.5	82	1200	LF														
11	0.00			0	0.0																		
12	26.80	3.4	5.3	347	6.8	23.2	78	1130	LF														
13	93.19	4.4	5.9	1230	24.0	22.6	76	520	LF														
14	84.01	5.1	5.9	1175	24.0	23.0	77	2340	LF														
15	72.60	4.8	5.5	1184	24.0	19.8	84	3480	LF														
16	55.95	5.0	5.7	771	15.0	17.0	83	3840	LF														
17	44.94	6.4	5.7	308	14.0	15.4	89	1670	LF														
18	0.00			0	0.0																		
19	19.85	4.5	5.9	360	7.0	19.2	81	660	LF														
20	89.40	6.6	5.7	1266	24.0	19.4	78	1540	LF														
21	55.88	5.0	5.8	1365	24.0	19.9	81	450	LF														
22	61.90	5.5	5.5	1365	24.0	19.1	80	4967	LF														
23	71.21	4.6	5.6	1365	24.0	18.4	77	2000	LF														
24	41.62	5.2	5.6	796	14.0	19.6	84	1200	LF														
25	4.33			114	2.0																		
26	72.95	3.3	5.8	1365	24.0	19.8	83	4333	LF														
27	69.90	4.0	5.4	1365	24.0	19.9	76	2140	LF														
28	69.70	4.2	5.5	1365	24.0	21.4	78	1360	LF														
TOTAL	1610.50	115.6	136.3	23561	467.5	500.2	1923	42742			0.00	0.0	0.0	0	0.0	0.0	0	0	0				
AVERAGE	57.52	4.8	5.7	842	16.7	20.8	80	1781			0.00	0.0	0.0	0	0.0	0.0	0	0	0				

No samples taken on these days.

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2017	03	01	2017 03 31

CENTRIFUGE #1										CENTRIFUGE #2											
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To			
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF			
Day																					
1										83.97	3.9	5.3	1365	24.0	20.8	76	2833	LF			
2										79.40	3.6	5.6	1365	24.0	19.7	78	1600	LF			
3										42.35	6.6	5.6	839	14.8	20.2	78	1700	LF			
4										0.00			0	0.0							
5										22.85	4.6	5.6	398	7.0	20.4	78	1460	LF			
6										83.23	4.6	5.8	1365	24.0	20.5	74	655	LF			
7										84.62	4.0	5.6	1365	24.0	19.4	78	970	LF			
8										72.17	4.9	5.6	1209	21.3	20.3	85	1690	LF			
9										71.90	3.8	5.8	1270	22.3	19.8	78	1960	LF			
10										37.99	4.8	6.0	301	10.5	20.0	82	1190	LF			
11										0.00			0	0.0							
12										13.25	4.1	6.4	228	4.0	19.6	79	920	LF			
13	29.44	4.5	6.2	626	11.0	20.6	74	2240	LF												
14	62.55	3.8	6.3	1365	24.0	21.0	76	1210	LF												
15	69.34	4.9	6.0	1341	24.0	19.7	82	1020	LF												
16	63.40	3.9	6.2	1201	21.8	21.9	76	1280	LF												
17	39.00	4.4	6.4	784	13.8	22.0	77	1300	LF												
18	0.00			0	0.0																
19	5.66			165	3.0	21.6	80		LF												
20	23.70	4.4	6.3	399	7.2	21.8	75	1060	LF												
21	67.20	4.3	6.3	1293	23.5	21.4	78	1220	LF												
22	59.64	5.5	6.2	1210	22.0	21.5	75	900	LF												
23																					
24																					
25																					
26																					
27																					
28																					
29																					
30																					
31																					
TOTAL	419.93	35.7	49.9	8384	150.3	191.5	693	10230		591.73	44.9	57.3	9705	175.9	200.7	786	14978				
AVERAGE	41.99	4.5	6.2	838	15.0	21.3	77	1279		49.31	4.5	5.7	809	14.7	20.1	79	1498				
PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										DATE	
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP																					



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLIE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLIE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2017	03	01	2017 03 31

CENTRIFUGE #3										CENTRIFUGE #4											
Para-meter Units	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF			
Day																					
1	83.44	3.9	5.2	1365	24.0	21.2	79	3667	LF												
2	79.60	4.1	5.6	1365	24.0	20.0	76	990	LF												
3	38.48	5.6	5.7	839	14.8	20.0	78	2020	LF												
4	0.00			0	0.0																
5	22.72	4.9	5.5	398	7.0	20.1	76	4060	LF												
6	82.41	4.6	5.8	1365	24.0	20.0	76	770	LF												
7	84.44	4.3	5.6	1365	24.0	19.7	78	4880	LF												
8	70.02	5.4	5.6	1209	21.3	20.4	82	2200	LF												
9	69.70	5.5	5.8	1270	22.3	20.7	72	5060	LF												
10	34.70	5.1	6.0	301	10.5	19.9	78	6700	LF												
11	0.00			0	0.0																
12	27.75	4.4	6.4	455	8.0	21.4	74	3820	LF												
13	81.65	4.9	6.1	1365	24.0	20.7	75	650	LF												
14	59.71	4.8	6.3	1365	24.0	21.1	75	1210	LF												
15	72.65	5.6	6.0	1341	24.0	22.5	80	1320	LF												
16	60.85	5.0	6.2	1201	21.8	21.9	76	6700	LF												
17	34.90	5.9	6.4	784	13.8	22.0	77	960	LF												
18	0.00			0	0.0																
19	38.06	4.8	6.3	798	14.5	21.6	80	750	LF												
20	91.74	4.4	6.3	1320	24.0	21.8	75	4040	LF												
21	66.60	4.3	6.3	1293	23.5	21.4	78	2960	LF												
22	64.95	5.5	6.2	1320	24.0	21.5	75	1280	LF												
23	108.73	5.9	6.1	638	9.5	21.5	77	23300	LF												
24	176.85	4.7	5.9	386	23.5	9.8	82	14100	LA												
25	279.20	1.8	7.0	396	24.0	9.9	82	960	LA												
26	283.40	2.0	6.9	396	24.0	9.9	84	440	LA												
27	305.70	2.1	6.7	396	24.0	10.2	82	1000	LA												
28	303.39	2.6	6.5	396	24.0	10.7	81	2460	LA												
29	323.90	2.4	6.7	431	24.0	10.2	82	2000	LA												
30	329.30	1.9	6.6	483	24.0	10.1	82	780	LA												
31	310.30	1.6	6.7	480	24.0	11.1	75	1280	LA												
TOTAL	3585.14	118.0	172.4	24721	574.5	501.3	2187	100357		0.00	0.0	0.0	0	0.0	0.0	0	0	0			
AVERAGE	115.65	4.2	6.2	797	18.5	17.9	78	3584		0.00	0.0	0.0	0	0.0	0.0	0	0	0			
No samples taken on these days.																					
PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP										SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT										DATE	

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI0002276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2017	04	01	2017 04 30

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter Units	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge Kgal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	
Day																			
1	201.30	1.8	6.7	294	16.0	8.7	82	1480	LA										
2	296.59	2.3	6.7	441	24.0	8.9	83	1480	LA										
3	301.61	0.8	6.7	499	24.0	9.9	80	1580	LA										
4	317.67	1.7	6.7	522	23.8	9.7	83	1470	LA										
5	319.83	2.7	6.8	528	24.0	9.9	81	1060	LA										
6	280.00	1.9	6.5	462	21.0	10.7	78	920	LA										
7	346.30	2.0	6.7	528	24.0	11.4	78	1740	LA										
8	347.40	1.3	6.7	528	24.0	11.5	80	590	LA										
9	346.30	2.3	6.7	528	24.0	11.4	82	1160	LA										
10	349.30	0.9	6.8	528	24.0	11.2	75	540	LA										
11	351.27	1.9	6.8	510	24.0	11.4	82	1420	LA										
12	348.40	2.1	6.7	483	24.0	11.3	73	1280	LA										
13	310.60	0.5	6.8	483	24.0	10.9	76	1370	LA										
14	307.00	1.9	6.8	483	24.0	10.8	83	1260	LA										
15	287.70	1.7	7.0	483	24.0	10.7	80	690	LA										
16	271.55	2.4	7.2	483	24.0	10.4	80	600	LA										
17	268.80	1.2	7.0	483	24.0	9.3	80	670	LA										
18	268.70	1.4	7.2	483	24.0	12.2	67	790	LA										
19	285.40	1.8	7.1	483	24.0	10.9	82	680	LA										
20	233.41	1.0	7.0	378	18.8	11.1	81	650	LA										
21	330.70	2.1	7.0	483	24.0	9.5	82	960	LA										
22	318.04	1.6	7.0	483	24.0	10.3	81	870	LA										
23	291.76	1.6	6.6	468	23.2	10.0	79	750	LA										
24	286.75	0.9	7.1	483	24.0	9.6	82	890	LA										
25	276.04	1.3	6.7	483	24.0	11.4	84	710	LA										
26	298.40	1.7	7.0	483	24.0	10.2	79	790	LA										
27	313.60	1.4	6.9	483	24.0	10.7	80	710	LA										
28	346.30	1.3	7.0	483	24.0	10.3	85	900	LA										
29	337.56	1.5	6.6	483	24.0	10.2	78	710	LA										
30	350.10	1.0	7.0	483	24.0	10.0	78	490	LA										
TOTAL	9188.38	48.0	205.5	14425	702.8	314.5	2394	29210		0.00	0.0	0.0	0	0.0	0.0	0	0	0	
AVERAGE	306.28	1.6	6.9	481	23.4	10.5	80	974		0.00	0.0	0.0	0	0.0	0.0	0	0	0	

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

MONITORING PERIOD:		FROM	TO	
YEAR	MONTH	DAY	YEAR	MONTH
2017	05	01	2017	05
			DAY	
			31	

DISCHARGE NUMBER	PERMIT NUMBER
001	MI00022276

CENTRIFUGE # 3																			CENTRIFUGE # 4																		
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF																			
Day																																					
1	288.20	1.5	6.9	393	19.5	10.0	80	700	LA																												
2	351.50	1.0	7.0	483	24.0	10.3	83	820	LA																												
3	303.10	1.6	7.0	483	24.0	10.3	84	580	LA																												
4	306.90	1.4	6.6	483	24.0	10.9	79	620	LA																												
5	293.57	1.1	7.0	483	24.0	10.8	80	700	LA																												
6	275.03	1.6	6.8	483	24.0	10.9	82	660	LA																												
7	268.20	1.4	7.0	483	24.0	10.0	85	700	LA																												
8	251.36	1.4	6.8	483	24.0	11.1	81	530	LA																												
9	267.50	1.2	6.9	483	24.0	11.4	83	870	LA																												
10	260.30	2.1	6.8	483	24.0	11.2	87	740	LA																												
11	266.10	0.2	6.8	483	24.0	10.6	80	660	LA																												
12	243.40	1.7	6.9	483	24.0	10.7	85	880	LA																												
13	229.90	1.5	6.9	483	24.0	11.8	85	690	LA																												
14	223.70	1.8	6.8	483	24.0	11.6	80	700	LA																												
15	207.10	0.2	6.7	483	24.0	18.0	86	1340	LA																												
16	223.00	2.5	6.6	483	24.0	11.3	80	1300	LA																												
17	223.85	1.6	6.7	473	23.5	11.1	82	660	LA																												
18	241.05	1.6	6.7	483	24.0	11.4	81	590	LA																												
19	247.30	1.4	6.9	483	24.0	10.9	81	630	LA																												
20	256.30	1.7	6.4	483	24.0	11.1	82	750	LA																												
21	249.00	2.6	6.7	423	21.0	11.4	82	630	LA																												
22	283.60	2.3	6.8	483	24.0	11.0	82	720	LA																												
23	307.06	1.6	6.8	483	24.0	10.6	84	840	LA																												
24	290.10	1.1	6.9	483	24.0	11.0	85	800	LA																												
25	274.20	2.1	6.8	483	24.0	11.2	81	590	LA																												
26	296.70	1.8	6.8	483	24.0	11.2	80	710	LA																												
27	264.30	1.4	6.6	483	24.0	11.2	83	520	LA																												
28	271.20	1.7	6.9	483	24.0	11.3	82	620	LA																												
29	274.30	1.7	6.9	449	22.0	11.2	80	710	LA																												
30	286.40	1.4	6.9	476	24.0	10.7	82	710	LA																												
31	282.05	1.4	6.9	469	23.7	10.2	84	670	LA																												
TOTAL	8306.27	47.6	211.2	14758	733.7	346.4	2551	22640		0.00	0.0	0.0	0	0.0	0.0	0	0	0																			
AVERAGE	267.94	1.5	6.8	476	23.7	11.2	82	730		0.00	0.0	0.0	0	0.0	0.0	0	0	0																			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

MONITORING PERIOD:		FROM	TO	
YEAR	MONTH	DAY	YEAR	MONTH
2017	06	01	2017	06
			DAY	
			30	

DISCHARGE NUMBER	PERMIT NUMBER
001	MI00022276

CENTRIFUGE # 3												
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate	Output	Feed Sludge	Feed Solids	Feed Sludge
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	Solids	To MHF	KGal	Pct	pH
Day												
1	282.40	1.4	6.8	12	24.0	9.8	81	640	LA			
2	289.90	1.2	7.0	11	24.0	12.5	80	580	LA			
3	298.40	1.5	6.8	12	24.0	10.8	82	580	LA			
4	310.35	1.5	6.9	11	24.0	12.1	81	550	LA			
5	310.30	1.4	7.0	11	24.0	12.0	79	550	LA			
6	284.51	1.4	6.8	10	22.0	12.0	81	690	LA			
7	283.49	1.8	6.9	11	24.0	12.8	81	590	LA			
8	259.27	1.4	6.7	17	22.0	11.8	81	520	LA			
9	259.71	0.5	6.9	10	23.0	11.1	83	900	LA			
10	269.31	1.5	6.6	11	24.0	11.0	79	880	LA			
11	222.15	2.3	6.7	12	24.0	10.7	78	440	LA			
12	228.80	1.5	6.2	11	24.0	9.0	78	1140	LA			
13	216.90	2.1	6.9	11	23.8	11.9	81	653	LA			
14	202.60	2.1	6.8	13	24.0	11.6	79	610	LA			
15	212.10	1.8	6.7	15	24.0	12.2	80	350	LA			
16	194.90	2.2	6.7	11	24.0	15.1	76	515	LA			
17	182.90	1.3	6.9	12	24.0	14.6	78	357	LA			
18	195.90	1.4	6.8	11	24.0	14.5	75	390	LA			
19	198.50	1.9	6.8	11	24.0	13.9	78	480	LA			
20	190.60	1.9	6.9	13	22.5	14.5	79	470	LA			
21	192.80	2.2	6.9	11	24.0	14.4	79	450	LA			
22	208.60	2.2	6.7	11	24.0	14.4	79	630	LA			
23	226.80	2.3	6.7	12	24.0	14.3	81	640	LA			
24	227.30	1.3	6.7	11	24.0	13.6	78	390	LA			
25	217.70	3.1	6.9	11	24.0	12.8	81	420	LA			
26	195.00	1.8	6.7	11	21.0	12.1	80	460	LA			
27	236.86	2.0	6.7	12	24.0	12.4	80	500	LA			
28	223.80	2.2	6.8	11	24.0	14.7	85	470	LA			
29	225.00	2.0	6.7	12	22.5	14.0	80	400	LA			
30	228.30	1.5	6.8	13	24.0	11.7	84	460	LA			
TOTAL	7075.15	52.7	203.4	347	708.8	378.3	2397	16705		0.00	0.0	0.0
AVERAGE	235.84	1.8	6.8	12	23.6	12.6	80	557		0.00	0.0	0.0
No samples taken on these days.												

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY / STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2017	07	01	31

CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter	Feed Sludge Units	Feed Solids KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF
1																			
2											129.95	2.7	6.8	210	12.5	12.5	79	450	LA
3											76.28	1.7	6.5	161	11.0	9.4	78	370	LA
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
TOTAL	0.00	0.0	0.0	0.0	0	0.0	0.0	0	0	0	206.23	4.4	13.3	371	23.5	21.9	157	820	
AVERAGE	0.00	0.0	0.0	0.0	0	0.0	0.0	0	0		103.12	2.2	6.7	186	11.8	11.0	79	410	

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
FROM	TO	YEAR	MONTH
YEAR <b>2017</b>	MONTH <b>07</b>	DAY <b>01</b>	DAY <b>31</b>

CENTRIFUGE #3												CENTRIFUGE #4											
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To					
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF					
Day																							
1	206.30	1.4	6.9	351	24.0	13.4	77	390	LA														
2	85.29	2.7	6.8	140	9.6	12.5	79	450	LA														
3	88.91	1.7	6.5	190	13.0	9.4	78	480	LA														
4	185.10	2.2	6.7	351	24.0	11.8	78	813	LA														
5	185.90	1.6	6.7	351	24.0	9.8	79	530	LA														
6	203.40	2.0	6.7	351	24.0	10.9	77	440	LA														
7	215.00	1.9	6.7	351	24.0	11.9	79	465	LA														
8	206.30	2.1	6.7	351	24.0	10.6	80	550	LA														
9	213.30	2.1	6.7	351	24.0	12.1	78	640	LA														
10	211.75	1.9	6.6	351	24.0	12.2	78	595	LA														
11	219.05	2.2	6.7	351	24.0	10.7	81	840	LA														
12	225.50	2.2	6.6	351	24.0	8.5	82	1580	LA														
13	234.00	1.6	6.7	351	24.0	9.7	78	880	LA														
14	229.70	1.7	6.8	351	24.0	10.2	81	790	LA														
15	245.70	1.3	6.7	410	24.0	9.6	79	720	LA														
16	205.30	1.6	6.7	351	24.0	5.6	82	515	LA														
17	230.80	1.6	6.8	351	24.0	10.4	82	660	LA														
18	229.80	2.1	6.8	337	23.0	10.8	80	760	LA														
19	249.80	2.8	6.6	351	24.0	10.3	85	600	LA														
20	269.50	2.6	6.6	351	24.0	10.4	79	1200	LA														
21	243.00	2.0	6.6	351	24.0	10.1	83	1190	LA														
22	235.30	2.0	6.6	377	24.0	10.1	82	1130	LA														
23	234.70	0.9	6.7	396	24.0	10.7	79	510	LA														
24	216.75	2.2	6.6	351	24.0	9.2	81	780	LA														
25	206.35	1.7	6.7	351	24.0	9.4	84	820	LA														
26	195.90	1.9	6.7	351	23.5	9.7	84	690	LA														
27	223.60	1.8	6.8	351	24.0	7.6	81	1190	LA														
28	212.40	1.6	6.7	351	24.0	10.7	81	950	LA														
29	215.00	1.7	6.7	351	24.0	9.9	81	360	LA														
30	219.00	2.0	6.6	351	24.0	10.3	84	640	LA														
31	203.80	1.2	6.6	344	23.5	10.3	81	760	LA														
TOTAL	6546.20	58.3	207.3	10618	716.6	318.8	2493	22918		0.00	0.0	0.0	0	0.0	0.0	0	0	0					
AVERAGE	211.17	1.9	6.7	343	23.1	10.3	80	739		0.00	0.0	0.0	0	0.0	0.0	0	0	0					

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

PERMITTEES NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEES ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

CENTRIFUGE 3 & 4

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>M10002276</b>	
MONITORING PERIOD:			
YEAR <b>2017</b>	MONTH <b>08</b>	FROM DAY <b>01</b>	TO DAY <b>31</b>

CENTRIFUGE #3																			CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF										
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L											
Day																												
1	215.70	1.7	6.3	386	23.5	9.8	83	1600	LA																			
2	207.10	2.1	6.3	396	24.0	9.7	81	880	LA																			
3	225.40	1.9	6.4	351	24.0	10.4	80	970	LA																			
4	239.90	2.3	6.4	351	24.0	10.1	78	1070	LA																			
5	197.10	2.0	6.4	351	24.0	11.0	79	580	LA																			
6	222.50	2.4	6.6	351	24.0	10.9	81	820	LA																			
7	204.30	1.8	6.4	351	24.0	8.6	80	700	LA																			
8	202.40	2.2	6.5	351	24.0	9.1	82	800	LA																			
9	197.70	1.7	6.8	351	24.0	9.1	84	730	LA																			
10	221.60	1.9	6.5	351	24.0	7.6	84	800	LA																			
11	214.00	1.6	6.7	351	24.0	8.3	84	620	LA																			
12	218.90	1.7	6.8	351	24.0	11.5	83	480	LA																			
13	207.40	0.2	6.8	351	24.0	10.4	82	600	LA																			
14	211.50	2.0	6.6	351	24.0	9.9	80	530	LA																			
15	240.95	1.8	6.5	351	24.0	9.9	83	760	LA																			
16	220.15	2.4	6.8	351	24.0	10.6	84	650	LA																			
17	218.10	1.8	6.6	351	24.0	10.4	78	520	LA																			
18	217.30	1.8	6.7	351	24.0	10.4	78	640	LA																			
19	204.10	2.0	6.8	351	24.0	11.3	80	560	LA																			
20	206.50	1.6	6.8	339	23.2	10.8	80	384	LA																			
21	216.10	0.1	6.8	351	24.0	10.8	82	420	LA																			
22	193.00	0.9	6.7	351	24.0	10.5	84	670	LA																			
23	217.84	2.2	6.8	351	24.0	10.5	81	680	LA																			
24	196.70	1.8	6.8	351	24.0	10.5	82	360	LA																			
25	204.10	1.2	6.8	351	24.0	10.7	81	550	LA																			
26	227.36	2.1	6.6	351	24.0	11.3	82	470	LA																			
27	212.10	2.3	6.7	351	24.0	11.2	79	810	LA																			
28	213.10	1.7	6.5	351	24.0	11.0	80	700	LA																			
29	216.35	1.6	6.7	351	24.0	10.8	82	570	LA																			
30	203.55	1.4	6.9	351	24.0	1.1	83	680	LA																			
31	216.40	1.9	6.8	351	24.0	9.6	81	660	LA																			
TOTAL	6609.20	54.1	205.8	10949	742.7	307.8	2521	21264		0.00	0.0	0.0	0	0.0	0.0	0	0											
AVERAGE	213.20	1.7	6.6	353	24.0	9.9	81	686		0.00	0.0	0.0	0	0.0	0.0	0	0											
No samples taken on these days																												

No samples taken on these days.

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	M000022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR
2017	09	01	2017
			MONTH
			DAY
			30

CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH		Hours	Pct	Pct	mg/L		
Day																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15										296.75	2.2	6.9	390	24.0	13.5	73	1060	LA	
16										279.30	2.1	6.7	396	24.0	13.0	72	560	LA	
17										222.70	1.9	6.8	370	24.0	12.6	74	660	LA	
18										229.90	1.6	6.7	351	24.0	10.8	82	120	LA	
19										245.30	1.8	6.8	351	24.0	11.4	72	1070	LA	
20										280.90	2.5	6.7	351	24.0	11.6	82	1350	LA	
21										256.90	2.0	6.6	377	23.0	12.2	75	500	LA	
22										249.70	1.7	6.8	351	24.0	11.3	79	710	LA	
23										269.60	1.9	6.8	351	24.0	11.5	76	520	LA	
24										242.70	1.9	6.6	351	24.0	11.2	77	680	LA	
25										236.60	1.9	6.9	351	24.0	11.2	81	670	LA	
26										252.20	1.6	6.7	351	24.0	10.9	77	570	LA	
27										237.20	2.0	6.8	351	24.0	10.4	78	640	LA	
28										252.00	2.2	6.7	351	24.0	11.1	77	650	LA	
29										245.20	1.7	6.9	351	24.0	10.7	77	570	LA	
30										229.30	1.9	6.7	351	24.0	11.0	81	450	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		4026.25	30.9	108.1	5745	383.0	184.4	1233	10780		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		251.64	1.9	6.8	359	23.9	11.5	77	674		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

CENTRIFUGE 3 & 4

DISCHARGE NUMBER	001	PERMIT NUMBER	M10002276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR MONTH DAY
2017	09	01	2017 09 30

CENTRIFUGE # 3											CENTRIFUGE # 4										
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH
Day																					
1	221.00	1.5	6.9	351	24.0	9.8	80	540	LA												
2	207.00	2.0	6.9	351	24.0	11.3	79	430	LA												
3	220.60	1.6	6.9	351	24.0	11.5	79	550	LA												
4	204.00	1.4	6.9	351	24.0	11.4	81	470	LA												
5	195.40	1.4	6.9	348	23.8	11.4	80	370	LA												
6	226.50	1.3	7.0	351	24.0	11.2	79	430	LA												
7	224.40	1.3	7.0	351	24.0	10.8	79	640	LA												
8	217.10	1.4	7.0	351	24.0	10.6	80	380	LA												
9	236.20	1.8	7.1	351	24.0	11.0	82	550	LA												
10	207.80	1.9	6.9	351	24.0	12.1	79	210	LA												
11	227.80	1.8	6.9	351	24.0	12.2	76	750	LA												
12	232.25	2.1	6.9	345	23.5	12.1	80	620	LA												
13	258.35	3.7	6.8	344	23.5	11.2	78	950	LA												
14	143.06	2.6	6.9	154	10.5	10.4	77	1800	LA												
15																					
16																					
17																					
18																					
19																					
20																					
21																					
22																					
23																					
24																					
25																					
26																					
27																					
28																					
29																					
30																					
31																					
TOTAL	3021.46	25.8	6.9	4701	321.3	157.0	1109	8690		0.00	0.0	0.0	0	0.0	0.0	0	0				
AVERAGE	215.82	1.8	6.9	336	22.9	11.2	79	621		0.00	0.0	0.0	0	0.0	0.0	0	0				

No samples taken on these days.

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2017	10	01	2017 10 31

CENTRIFUGE # 1										CENTRIFUGE # 2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1										234.00	1.7	6.9	351	24.0	11.0	80	1610	LA	
2										253.22	1.7	6.9	351	24.0	11.4	75	680	LA	
3										271.42	2.2	6.7	351	24.0	11.1	79	690	LA	
4										271.50	2.2	6.6	351	24.0	11.3	79	850	LA	
5										242.67	2.5	6.8	293	20.0	10.9	80	920	LA	
6										275.34	1.9	6.7	390	24.0	11.6	80	780	LA	
7										264.40	2.0	6.8	396	24.0	11.5	76	650	LA	
8										276.60	9.2	6.8	396	24.0	9.9	77	620	LA	
9										250.88	2.0	6.9	385	24.0	11.0	78	570	LA	
10										256.52	2.1	6.9	351	24.0	10.1	79	790	LA	
11	165.18	2.2	6.7	201	13.8	10.8	79	920	LA	86.00	2.2	6.7	117	8.0	10.8	79	760	LA	
12	111.15	2.1	6.8	172	9.0	12.4	79	1050	LA	123.60	2.1	6.8	172	10.8	12.4	79	1350	LA	
13										294.45	2.2	6.7	371	22.5	9.7	83	580	LA	
14										263.05	1.6	6.8	363	22.0	7.7	80	550	LA	
15										274.60	1.3	6.9	360	23.0	9.2	81	860	LA	
16										287.90	2.4	6.7	392	24.0	9.9	79	940	LA	
17										273.00	1.9	6.9	351	24.0	10.1	76	610	LA	
18										249.65	2.0	6.9	351	24.0	12.5	72	710	LA	
19										295.50	1.8	6.9	351	24.0	12.0	74	480	LA	
20										261.00	1.7	7.0	351	24.0	10.1	77	810	LA	
21										264.00	1.6	6.8	351	24.0	10.1	80	600	LA	
22										240.40	1.9	6.9	351	24.0	10.9	78	200	LA	
23										250.80	1.0	6.8	351	24.0	11.0	78	600	LA	
24										226.40	2.1	6.9	351	24.0	10.7	79	730	LA	
25										265.90	2.4	6.8	351	24.0	11.2	77	730	LA	
26										253.15	2.3	6.8	351	24.0	11.2	78	920	LA	
27										239.55	1.7	6.9	351	24.0	11.2	80	610	LA	
28										252.35	1.5	6.7	351	24.0	11.5	79	570	LA	
29										241.88	1.5	6.9	351	23.5	11.7	77	510	LA	
30										253.07	1.9	6.6	337	23.0	9.3	80	460	LA	
31										259.70	0.2	6.9	348	23.8	9.5	82	480	LA	
TOTAL	276.33	4.3	13.5	373	22.8	23.2	158	1970		7752.50	64.8	211.3	10658	704.6	332.5	2431	22220		
AVERAGE	138.17	2.2	6.8	187	11.4	11.6	79	985		250.08	2.1	6.8	344	22.7	10.7	78	717		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		M00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2017	11	01	2017 11 30

CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	
Units	KGal	Pct	pH							KGal	Pct	pH							
Day																			
1										260.55	1.8	6.8	351	24.0	10.2	82	710	LA	
2										287.04	1.9	6.8	351	24.0	10.5	81	640	LA	
3										271.51	1.9	7.1	351	24.0	11.4	82	720	LA	
4										263.70	1.4	6.8	351	24.0	12.3	81	740	LA	
5										259.00	2.2	6.9	351	24.0	12.4	78	850	LA	
6										241.48	2.2	6.7	351	23.0	11.7	78	530	LA	
7										261.52	1.9	6.7	351	24.0	9.0	79	910	LA	
8										236.40	2.2	6.9	351	24.0	6.8	77	1010	LA	
9										230.55	2.0	6.8	351	24.0	9.0	77	550	LA	
10										255.05	1.9	6.8	351	24.0	9.9	82	1090	LA	
11										245.40	1.4	6.8	351	24.0	11.5	78	810	LA	
12										236.10	1.8	6.8	351	24.0	11.6	82	260	LA	
13										222.55	2.2	6.8	351	24.0	11.6	80	840	LA	
14										260.55	2.4	6.8	351	24.0	11.6	79	980	LA	
15										231.20	2.0	6.7	351	24.0	11.3	86	780	LA	
16										222.95	2.2	6.7	351	24.0	11.4	79	730	LA	
17										239.05	1.1	6.8	351	24.0	11.4	85	940	LA	
18										232.75	2.0	6.6	351	24.0	11.6	81	870	LA	
19										240.40	2.0	6.8	351	24.0	11.5	79	830	LA	
20										211.10	2.1	6.8	351	24.0	11.2	78	500	LA	
21	125.93	1.4	6.9	183	12.5	11.6	82	940	LA	116.97	1.4	6.9	168	11.5	11.6	82	610	LA	
22	245.16	2.5	6.8	351	24.0	8.9	76	720	LA									LA	
23	247.60	1.1	7.0	351	24.0	10.2	84	680	LA									LA	
24	243.30	1.7	6.9	351	24.0	11.6	82	840	LA									LA	
25	217.90	1.7	7.0	351	24.0	11.7	83	690	LA									LA	
26	192.70	1.4	6.9	351	24.0	12.6	79	150	LA									LA	
27	234.67	2.4	6.8	351	24.0	11.5	79	860	LA									LA	
28	233.63	2.1	6.8	351	24.0	10.2	82	930	LA									LA	
29	244.60	2.0	6.8	351	24.0	12.1	79	750	LA									LA	
30	193.50	2.1	63.8	249	17.0	10.9	81	1130	LA									LA	
TOTAL	2178.99	18.4	125.7	3240	221.5	111.3	807	7690		5026.82	40.0	142.8	7188	490.5	229.5	1686	15900		
AVERAGE	217.90	1.8	12.6	324	22.2	11.1	81	769		239.32	1.9	6.8	342	23.4	10.9	80	757		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	M00022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR
2017	12	01	2017
			MONTH
			DAY
			31

	CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To		
Units	Kgal	Pct	pH			Pct	Pct	mg/L	MHF	KGal	Pct	pH			Pct	Pct	mg/L	MHF		
Day																				
1	240.50	1.6	6.8	351	24.0	11.4	82	1070	LA											
2	233.40	1.4	6.7	351	24.0	11.1	83	970	LA											
3	236.80	3.5	6.7	351	24.0	12.0	82	550	LA											
4	251.80	1.9	6.8	351	24.0	11.6	82	880	LA											
5	228.40	1.6	6.8	351	24.0	12.2	81	820	LA											
6	241.30	3.9	6.7	308	24.0	11.5	81	610	LA											
7	214.20	2.0	6.8	264	24.0	11.4	80	1000	LA											
8	227.90	2.0	6.8	264	24.0	11.0	81	1020	LA											
9	170.76	1.7	6.7	187	17.0	11.2	84	830	LA											
10																				
11										52.90	2.8	6.6	642	12.5	19.6	78	480	L		
12										120.97	2.2	6.4	785	15.5	21.2	80	330	L		
13										117.23	4.0	6.6	1181	24.0	21.0	82	1160	L		
14										110.40	4.0	6.6	1145	24.0	22.1	81	880	L		
15										54.74	3.8	6.5	564	12.0	23.7	78	1050	L		
16																				
17										29.65	5.2	6.3	374	7.5	19.8	80	1560	L		
18										128.38	6.3	6.3	1239	24.0	20.4	78	5450	L		
19										112.66	6.5	6.3	1232	23.0	21.4	80	2290	L		
20										108.60	5.7	6.2	1266	24.0	21.1	78	2800	L		
21										120.85	8.8	6.3	1299	24.0	21.9	80	1600	L		
22										64.96	5.3	6.2	744	13.8	23.4	78	1450	L		
23																				
24																				
25										33.60	4.4	5.9	385	7.0	20.0	80	1660	L		
26										114.10	5.7	6.6	1408	24.0	22.4	79	5300	L		
27										92.10	4.7	6.6	1177	20.0	20.3	80	950	L		
28										108.00	4.1	6.0	838	21.0	28.5	77	1100	L		
29										76.18	3.4	5.6	539	13.0	28.7	83	1600	L		
30																				
31																				
TOTAL	2045.06	19.6	60.8	2778	209.0	103.4	736	7750		1445.32	76.9	101.0	14818	289.3	355.5	1272	29660			
AVERAGE	227.23	2.2	6.8	309	23.2	11.5	82	861		90.33	4.8	6.3	926	18.1	22.2	80	1854			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME	CITY OF BATTLLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	MI00022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR
2018	01	01	2018
			MONTH
			DAY
			31

CENTRIFUGE #1												CENTRIFUGE #2											
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours
Day																							
1										35.62	3.2	5.8	337	8.0	27.0	77	1210	LF					
2										125.70	3.9	5.8	1101	24.0	24.6	78	2620	LF					
3										117.60	3.6	5.8	1122	24.0	26.9	77	2625	LF					
4										133.30	4.4	5.9	1146	24.0	25.9	78	2750	LF					
5										133.52	3.6	5.9	1165	24.0	25.7	76	7500	LF					
6										67.58	3.7	5.8	693	14.0	25.1	75	2340	LF					
7										37.62	3.2	5.8	308	7.0	26.1	77	1880	LF					
8										127.05	4.2	5.7	1144	24.0	26.1	75	3120	LF					
9										136.45	3.7	5.7	1188	24.0	29.0	75	3400	LF					
10										138.00	4.1	5.7	1265	24.0	23.9	78	4800	LF					
11										126.60	4.5	5.7	1320	24.0	24.7	77	2980	LF					
12										108.67	3.8	5.6	1127	20.5	24.3	83	2320	LF					
13																							
14																							
15																							
16																							
17	37.60	3.8	5.6	495	9.0	22.6	78	2500	LF														
18	76.95	4.2	5.8	930	18.0	26.1	77	1900	LF														
19	11.11	3.2	5.7	25	0.5	22.9	80	3320	LF														
20																							
21																							
22	97.39	5.8	5.6	910	16.0	24.0	76	2040	LF														
23	95.35	3.9	5.7	1410	24.0	24.7	80	2180	LF														
24	79.11	3.8	5.7	1057	18.0	24.3	78	1580	LF														
25	62.54	3.8	5.7	770	12.5	23.8	77	2060	LF														
26																							
27																							
28																							
29																							
30																							
31	51.92	4.8	5.6	802	13.2	25.7	78	2080	LF														
TOTAL	511.97	33.3	45.4	6399	111.2	194.1	624	17660		1287.71	45.9	69.2	11916	241.5	309.3	926	37545						
AVERAGE	64.00	4.2	5.7	800	13.9	24.3	78	2208		107.31	3.8	5.8	993	20.1	25.8	77	3129						

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR <b>2018</b>	MONTH <b>01</b>	FROM DAY <b>01</b>	TO DAY <b>31</b>

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L		
Day																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15	88.20	3.2	5.7	758	15.0	24.2	76	3400	LF										
16	139.10	3.3	5.5	1233	24.0	23.8	77	5300	LF										
17	114.34	3.8	5.6	1273	24.0	22.6	78	1440	LF										
18	84.51	4.2	5.8	930	18.0	26.1	77	1580	LF										
19	85.69	3.2	5.7	881	17.0	22.9	80	1920	LF										
20	117.10	3.3	5.8	1320	24.0	24.1	77	1360	LF										
21	16.98	3.9	5.2	110	2.0	23.4	78	2120	LF										
22	68.92	5.8	5.6	910	16.0	24.0	76	4100	LF										
23	93.50	3.9	5.7	1410	24.0	24.7	80	1900	LF										
24	76.64	3.8	5.7	1057	18.0	24.3	78	1520	LF										
25	101.36	3.8	5.7	1262	21.0	23.8	77	1360	LF										
26	127.90	3.5	5.6	1410	24.0	23.1	82	5350	LF										
27	78.00	4.6	5.6	895	15.2	23.0	86	5500	LF										
28																			
29	71.14	3.1	5.6	881	15.0	25.4	76	1200	LF										
30	124.60	3.9	5.6	1409	24.0	23.7	76	2250	LF										
31	123.40	4.8	5.6	1410	23.2	25.7	78	2120	LF										
TOTAL	1511.38	62.1	90.0	17149	304.4	384.8	1252	42420		0.00	0.0	0.0	0	0.0	0.0	0	0		
AVERAGE	94.46	3.9	5.6	1072	19.0	24.1	78	2651		0.00	0.0	0.0	0	0.0	0.0	0	0		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	MI00022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR MONTH DAY
2018	02	01	2018 02 28

CENTRIFUGE #1												CENTRIFUGE #2											
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol.	Centrate Solids	Output To					
Units	KGal	Pct	pH		Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH		Hours	Pct	Pct	mg/L	MHF					
Day																							
1										54.05	4.5	5.5	688	12.5	24.9	78	1030	L					
2										95.20	4.2	5.7	1438	24.0	26.9	80	1190	L					
3										53.19	4.3	5.5	686	11.0	24.0	79	1060	L					
4																							
5										67.81	4.0	5.5	949	15.0	26.2	76	2060	L					
6										97.96	4.7	5.6	1355	24.0	24.0	78	2300	L					
7										84.07	4.6	5.7	1119	20.0	23.1	78	1760	L					
8										102.92	4.7	5.7	1344	24.0	24.3	79	2240	L					
9										95.32	4.0	5.7	1378	24.0	24.9	78	3840	L					
10										26.56	4.4	5.7	212	3.5	23.9	77	1900	L					
11																							
12										56.34	3.7	5.7	653	10.0	23.7	78	1460	L					
13										99.72	4.4	5.6	1236	20.0	24.8	78	1280	L					
14										90.67	4.6	5.6	1380	24.0	25.3	78	1310	L					
15										88.90	5.3	5.7	1466	24.0	24.9	79	1270	L					
16										104.22	4.4	5.7	1192	22.0	25.8	77	1260	L					
17										74.48	3.7	5.5	936	15.0	26.2	78	1020	L					
18																							
19										67.34	4.7	5.6	1109	15.0	26.0	78	970	L					
20										104.80	4.2	5.6	1533	24.0	26.3	78	1010	L					
21										79.90	4.7	5.7	1339	21.0	25.6	78	980	L					
22										97.70	5.8	5.8	1427	24.0	27.4	81	1040	L					
23										111.93	3.8	5.6	1315	23.5	27.7	78	840	L					
24																							
25																							
26										134.65	3.0	5.8	784	14.0	28.7	75	800	L					
27										157.62	4.2	5.6	1357	24.0	26.2	78	1020	L					
28										57.10	3.6	5.6	728	13.0	27.4	78	1110	L					
29																							
30																							
31																							
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		2002.45	99.5	129.7	25624	431.5	587.2	1795	32750						
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		87.06	4.3	5.6	1114	18.8	25.5	78	1424						

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

MONITORING PERIOD:		FROM		TO	
YEAR	MONTH	DAY	YEAR	MONTH	DAY
2018	02	01	2018	02	28

DISCHARGE NUMBER <b>001</b>	PERMIT NUMBER <b>MI00022276</b>
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CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate	Output	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate	Output	
Units	KGal	Pct	pH	lbs	Hours	Pct	Solids	mg/L	To MHF	KGal	Pct	pH	lbs	Hours	Pct	Solids	mg/L	To MHF	
Day																			
1	15.56	4.5	5.5	0	5.0	24.9	78	3288	LF										
2	93.00	4.2	5.7	1383	23.0	26.9	80	1280	LF										
3	40.65	4.3	5.5	530	8.5	24.0	79	1320	LF										
4																			
5	60.65	4.0	5.5	917	14.5	25.2	76	2270	LF										
6	102.92	4.7	5.6	1355	24.0	24.0	78	1220	LF										
7	102.84	4.6	5.7	1343	24.0	23.1	78	1900	LF										
8	98.73	4.7	5.7	1344	24.0	24.3	79	1820	LF										
9	96.83	4.0	5.7	1202	21.0	24.9	78	1530	LF										
10																			
11																			
12	96.00	3.7	5.7	653	10.0	23.7	78	1210	LF										
13	58.50	4.4	5.6	1236	13.0	24.8	78	1090	LF										
14	43.12	4.6	5.6	617	10.5	25.3	78	1270	LF										
15	96.20	5.3	5.7	1436	24.0	24.9	79	910	LF										
16	44.74	4.4	5.7	587	10.0	25.8	77	970	LF										
17																			
18																			
19	67.34	4.7	5.6	1109	15.0	26.0	78	960	LF										
20	105.20	4.2	5.6	1533	24.0	26.3	78	1030	LF										
21	105.40	4.7	5.7	1526	24.0	25.6	78	900	LF										
22	97.91	5.8	5.8	1427	24.0	27.4	81	630	LF										
23	104.89	3.8	5.6	1287	23.0	27.7	78	640	LF										
24	77.86	4.0	5.9	728	13.0	28.2	76	1140	LF										
25																			
26	92.74	3.0	5.8	812	14.5	28.7	75	920	LF										
27	78.03	4.2	5.6	1034	18.5	26.2	78	1280	LF										
28	78.20	3.6	5.6	1007	18.0	27.4	78	800	LF										
29																			
30																			
31																			
TOTAL	1757.31	95.4	124.4	23066	385.5	565.3	1716	28378		0.00	0.0	0.0	0	0.0	0.0	0	0		
AVERAGE	79.88	4.3	5.7	1048	17.5	25.7	78	1290		0.00	0.0	0.0	0	0.0	0.0	0	0		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME	
CITY OF BATTLE CREEK - WWTP	
PERMITTEE'S ADDRESS	
2000 WEST RIVER ROAD	
CITY, STATE, ZIP CODE	
BATTLE CREEK, MICHIGAN 49037	

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2018	03	01	2018 03 31

	CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To		
Units	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF		
Day																				
1										94.99	3.8	5.5	1188	21.5	26.2	77	1380	L		
2										111.59	5.3	5.8	1344	24.0	26.3	77	1110	L		
3										78.58	3.7	5.6	839	15.0	26.0	77	1320	L		
4																				
5										89.57	3.5	5.5	840	15.0	25.4	76	1140	L		
6										107.94	3.9	5.6	1476	23.0	23.5	78	1800	L		
7	46.80	3.8	5.7	715	13.0	22.4	79	880	LF	43.91	3.8	5.7	624	10.0	22.4	79	1080	L		
8	29.33	4.7	5.7	385	8.0	24.8	80	860	LF	33.60	4.7	5.7	708	14.0	24.8	80	1390	L		
9										91.95	3.8	5.7	1144	21.5	24.9	77	1070	L		
10																				
11																				
12	43.14	2.9	5.8	968	10.5	24.4	76	620	LF											
13	117.84	3.6	5.6	979	18.0	21.8	78	962	LF											
14	63.68	5.1	5.8	784	14.0	22.2	81	830	LF											
15	133.35	3.9	5.9	1459	24.0	22.7	79	1140	LF											
16	108.10	3.8	5.8	1497	24.0	22.8	78	2900	LF											
17	13.38	3.2	5.8	94	1.5	23.2	78	1480	LF											
18																				
19	53.48	3.4	5.8	763	13.0	21.8	78	1140	LF											
20	95.67	5.0	5.9	1410	24.0	22.0	77	1540	LF											
21	41.00	4.1	6.0	524	9.0	20.7	78	1180	LF											
22	118.48	3.5	6.0	1459	24.0	22.5	78	11800	LF											
23	79.20	3.2	5.8	983	16.0	23.4	79	1760	LF											
24	97.83	3.0	5.7	1285	20.0	23.6	78	3180	LF											
25																				
26	46.89	3.5	5.7	741	12.0	21.8	78	5450	LF											
27	95.68	3.7	5.5	1431	24.0	21.3	77	1140	LF											
28	59.09	3.3	5.7	626	10.5	20.8	75	4400	LF											
29	109.21	3.1	5.7	1474	24.0	22.7	81	2060	LF											
30	110.20	3.9	5.7	1475	24.0	22.8	79	1020	LF											
31	49.03	2.8	5.4	614	9.0	22.7	85	1540	LF											
TOTAL	1511.38	73.5	115.0	19666	322.5	450.4	1572	45882		652.13	32.5	45.1	8163	144.0	199.5	621	10290			
AVERAGE	75.57	3.7	5.8	983	16.1	22.5	79	2294		81.52	4.1	5.6	1020	18.0	24.9	78	1286			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR <b>2018</b>	MONTH <b>03</b>	FROM DAY <b>01</b>	TO YEAR <b>2018</b> MONTH <b>03</b> DAY <b>31</b>

	CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF		
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L			
Day																				
1	100.02	3.8	5.5	1188	21.5	26.2	77	1340	LF											
2	49.61	5.3	5.8	588	10.5	26.3	77	950	LF											
3																				
4																				
5	72.48	3.5	5.5	854	15.0	25.4	76	625	LF											
6	87.02	3.9	5.6	978	16.5	23.5	78	1370	LF											
7	53.58	3.8	5.7	798	13.5	22.4	79	1640	LF											
8	78.72	4.7	5.7	1029	21.0	24.8	80	890	LF											
9	106.10	3.8	5.7	1277	24.0	24.9	77	750	LF											
10	19.63	2.4	5.8	165	3.0	25.3	78	980	LF											
11																				
12	68.97	2.9	5.8	908	15.0	24.4	76	610	LF											
13	134.89	3.6	5.6	1276	24.0	21.8	78	1300	LF											
14	128.55	5.1	5.8	1279	24.0	22.2	81	1670	LF											
15	136.92	3.9	5.9	1459	24.0	22.7	79	1100	LF											
16	111.02	3.8	5.8	1497	24.0	22.8	78	1340	LF											
17	13.57	3.2	5.8	94	1.5	23.2	78	1040	LF											
18																				
19	66.14	3.4	5.8	821	14.0	21.8	78	1030	LF											
20	97.86	5.0	5.9	1410	24.0	22.0	77	1280	LF											
21	54.53	4.1	6.0	634	11.0	20.7	78	1000	LF											
22	115.99	3.5	6.0	1459	24.0	22.5	78	10200	LF											
23	13.75	3.2	5.8	122	2.0	23.4	79	1460	LF											
24																				
25																				
26	68.75	3.5	5.7	805	13.0	21.8	78	1540	LF											
27	98.23	3.7	5.5	1431	24.0	21.3	77	3350	LF											
28	65.71	3.3	5.7	834	14.0	20.8	75	12700	LF											
29	111.47	3.1	5.7	1474	24.0	22.7	81	7100	LF											
30	111.82	3.9	5.7	1475	24.0	22.8	79	1020	LF											
31	49.42	2.8	5.4	614	9.0	22.7	85	2920	LF											
TOTAL	2014.75	93.2	143.2	24469	420.5	578.4	1957	59205		0.00	0.0	0.0	0	0.0	0.0	0	0			
AVERAGE	80.59	3.7	5.7	979	16.8	23.1	78	2368		0.00	0.0	0.0	0	0.0	0.0	0	0			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLIE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLIE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
<b>2018</b>	<b>04</b>	<b>01</b>	<b>2018 04 30</b>

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	
Units	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1																			
2																			
3	124.49	2.8	5.8	299	12.0	13.9	76	20400	LA										
4	215.25	4.4	5.9	782	24.0	14.1	76	24400	LA										
5	146.91	3.7	6.2	880	24.0	11.3	78	8600	LA										
6	114.00	3.4	5.9	881	24.0	10.7	79	1840	LA										
7	117.40	3.5	5.8	880	24.0	14.7	78	5233	LA										
8	117.64	3.2	5.6	882	24.0	14.9	79	3180	LA										
9	123.00	2.4	5.8	882	24.0	15.5	78	1060	LA										
10	114.90	3.5	5.7	881	24.0	15.0	78	3650	LA										
11	143.10	3.2	5.6	882	24.0	15.6	78	4167	LA										
12	198.61	2.9	6.3	960	24.0	12.9	79	3650	LA										
13	293.13	1.4	7.0	1063	24.0	14.7	82	520	LA										
14	346.08	1.0	7.4	1034	23.5	14.6	78	550	LA										
15	345.98	1.5	7.0	1056	24.0	12.3	81	430	LA										
16	377.98	1.6	7.0	850	24.0	11.8	80	600	LA										
17	360.75	1.5	6.8	705	24.0	12.1	80	1140	LA										
18	353.50	1.4	7.1	704	24.0	11.1	80	900	LA										
19	385.19	2.1	6.3	756	24.0	11.1	79	1860	LA										
20	356.95	1.2	6.3	792	24.0	10.7	80	1250	LA										
21	381.05	1.8	6.6	792	24.0	15.2	84	1160	LA										
22	363.43	1.4	6.8	764	24.0	12.8	86	1520	LA										
23	384.37	1.6	6.5	719	24.0	17.2	78	2440	LA										
24	382.05	1.4	6.4	705	24.0	15.0	84	1920	LA										
25	377.65	1.3	6.7	705	24.0	13.0	82	1580	LA										
26	395.45	1.5	6.3	705	24.0	10.6	81	3280	LA										
27	323.73	2.1	5.9	704	23.5	11.9	87	5700	LA										
28	331.92	2.4	6.4	705	24.0	14.8	83	960	LA										
29	341.80	1.5	7.2	747	24.0	7.8	86	1900	LA										
30	356.90	1.4	6.6	750	24.0	8.6	84	1860	LA										
31																			
TOTAL	7873.21	61.1	178.9	22465	659.0	363.9	2254	105750		0.00	0.0	0.0	0	0.0	0.0	0	0		
AVERAGE	281.19	2.2	6.4	802	23.5	13.0	81	3777		0.00	0.0	0.0	0	0.0	0.0	0	0		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2018	05	01	31

CENTRIFUGE # 3												CENTRIFUGE # 4											
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	MHF		Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	MHF		
Units	KGal	Pct	pH			Pct	Pct	mg/L				KGal	Pct	pH			Pct	Pct	mg/L				
Day																							
1	346.40	1.4	6.9	750	24.0	12.1	86	1920	LA														
2	294.70	1.6	6.8	666	21.0	9.2	85	1260	LA														
3	354.20	1.6	6.8	749	24.0	8.7	83	1380	LA														
4	326.91	1.8	7.0	837	24.0	8.9	85	3267	LA														
5	336.41	1.7	6.9	837	24.0	9.2	82	2833	LA														
6	316.35	1.4	7.1	837	24.0	13.5	79	2160	LA														
7	309.88	1.4	6.5	837	24.0	10.1	84	1260	LA														
8	319.64	1.7	6.8	802	23.0	8.6	84	920	LA														
9	302.00	1.5	6.9	778	24.0	9.7	82	700	LA														
10	311.25	2.3	6.8	837	24.0	11.0	82	98	LA														
11	313.45	2.0	6.8	749	24.0	10.8	80	380	LA														
12	317.98	2.1	6.9	850	24.0	10.3	80	1260	LA														
13	301.43	1.7	6.8	850	24.0	10.4	81	740	LA														
14	302.30	2.1	7.0	694	24.0	10.6	84	860	LA														
15	287.60	2.0	6.6	594	24.0	10.2	85	860	LA														
16	338.00	2.0	6.7	618	24.0	10.1	85	780	LA														
17	341.70	1.8	6.6	616	24.0	9.4	80	1020	LA														
18	309.30	2.0	6.9	615	24.0	9.6	82	810	LA														
19	317.45	2.0	6.8	615	24.0	9.9	80	810	LA														
20	294.57	1.6	6.8	615	24.0	9.3	82	700	LA														
21	297.98	1.6	6.7	618	24.0	8.8	80	1040	LA														
22	303.70	1.8	6.8	615	24.0	9.8	80	650	LA														
23	309.67	1.5	7.0	615	24.0	9.8	84	680	LA														
24	320.33	1.5	7.1	615	24.0	9.5	82	710	LA														
25	274.20	1.6	6.9	615	24.0	10.2	79	660	LA														
26	301.90	1.8	6.9	609	24.0	10.0	79	530	LA														
27	265.00	1.2	6.8	573	24.0	9.3	81	530	LA														
28	249.50	2.1	7.0	554	24.0	9.5	84	750	LA														
29	276.03	2.1	6.8	552	24.0	9.8	79	670	LA														
30	260.68	1.9	7.0	549	24.0	10.4	79	690	LA														
31	286.00	2.2	6.7	549	24.0	10.6	77	1020	LA														
TOTAL	9486.51	55.0	212.1	21200	740.0	309.3	2535	31948				0.00	0.0	0.0	0.0	0	0.0	0.0	0	0			
AVERAGE	306.02	1.8	6.8	684	23.9	10.0	82	1031				0.00	0.0	0.0	0.0	0	0.0	0.0	0	0			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME <b>CITY OF BATTLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>MI00022276</b>	
MONITORING PERIOD:			
YEAR <b>2018</b>	MONTH <b>06</b>	DAY <b>01</b>	TO YEAR <b>2018</b> MONTH <b>06</b> DAY <b>30</b>

CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter Units	Feed Sludge Kg/al	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge Kg/al	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	
1																			
2																			
3																			
4																			
5																			
6										158.85	1.8	6.4	222	11.0	10.0	77	660	LA	
7										302.17	1.5	6.6	474	23.5	10.3	84	850	LA	
8										316.37	0.4	6.7	502	24.0	11.8	84	640	LA	
9										343.28	1.5	6.5	543	24.0	10.7	85	560	LA	
10										326.25	1.2	6.6	492	24.0	10.1	80	1200	LA	
11										291.75	1.5	6.7	521	23.5	13.4	80	510	LA	
12										272.25	1.9	6.6	483	24.0	14.2	83	620	LA	
13										310.23	1.4	6.6	484	24.0	13.0	81	700	LA	
14										315.05	1.6	6.5	484	24.0	12.3	80	780	LA	
15										311.16	2.6	6.5	493	21.5	12.6	79	340	LA	
16										364.59	1.7	6.5	537	23.3	12.4	82	780	LA	
17										372.35	2.1	6.7	604	23.5	11.4	81	750	LA	
18										404.40	2.3	6.6	585	24.0	10.1	80	490	LA	
19										352.48	1.6	6.9	483	24.0	15.4	74	490	LA	
20										335.60	1.6	6.7	484	24.0	10.8	78	600	LA	
21										301.28	2.3	6.6	413	20.5	16.6	80	1140	LA	
22										337.22	2.1	6.7	483	24.0	14.0	79	690	LA	
23										293.42	1.5	6.8	473	23.5	12.0	79	890	LA	
24										363.63	0.7	6.8	483	24.0	12.6	80	670	LA	
25										288.86	1.6	6.9	445	24.0	11.4	84	810	LA	
26										293.30	1.9	6.6	417	24.0	11.4	79	600	LA	
27										304.75	2.5	6.7	473	24.0	12.7	78	1060	LA	
28										280.45	2.3	6.5	507	24.0	12.1	77	1040	LA	
29										294.80	2.0	6.0	507	24.0	11.6	78	310	LA	
30										276.70	1.5	6.8	507	24.0	9.9	78	600	LA	
31																			
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	7811.19	43.1	165.5	12099	578.3	302.8	2000	17780		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		312.45	1.7	6.6	484	23.1	12.1	80	711		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	M10002276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR MONTH DAY
2018	06	01	2018 06 30

CENTRIFUGE # 3										CENTRIFUGE # 4										
Para- meter Units Day	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF		
1	258.90	2.4	6.8	550	24.0	10.0	78	1380	LA											
2	261.60	2.1	6.7	549	24.0	9.7	79	700	LA											
3	239.50	1.4	6.9	550	24.0	9.7	78	690	LA											
4	230.70	1.6	6.9	505	24.0	9.5	80	620	LA											
5	252.30	2.0	6.4	483	24.0	8.8	78	800	LA											
6	138.56	1.8	6.4	262	13.0	10.0	77	660	LA											
7																				
8																				
9																				
10																				
11																				
12																				
13																				
14																				
15																				
16																				
17																				
18																				
19																				
20																				
21																				
22																				
23																				
24																				
25																				
26																				
27																				
28																				
29																				
30																				
31																				
TOTAL	1381.56	11.3	40.1	2899	133.0	57.7	470	4850		0.00	0.0	0.0	0	0.0	0.0	0	0	0		
AVERAGE	230.26	1.9	6.7	483	22.2	9.6	78	808		0.00	0.0	0.0	0	0.0	0.0	0	0	0		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 1 AND 2

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	M000022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR
2018	07	01	2018
			MONTH
			DAY
			31

CENTRIFUGE # 1										CENTRIFUGE # 2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1										246.50	1.6	6.7	507	24.0	9.3	78	630	LA	
2										248.75	2.0	6.4	490	24.0	9.2	74	670	LA	
3										205.25	2.0	6.5	484	24.0	9.9	76	460	LA	
4										265.66	2.0	6.6	483	24.0	11.8	76	510	LA	
5										267.34	1.7	6.8	483	24.0	11.6	75	360	LA	
6										244.50	2.0	6.9	425	21.0	11.4	77	420	LA	
7										288.30	2.5	6.8	483	24.0	12.0	76	580	LA	
8										250.70	1.5	6.5	485	24.0	11.0	76	640	LA	
9										232.16	1.4	6.6	453	22.5	10.5	76	590	LA	
10																			
11										55.58	1.5	6.8	96	4.8	10.2	77	1080	LA	
12										300.20	1.5	6.6	483	24.0	11.5	73	1220	LA	
13										304.88	1.2	6.8	484	24.0	10.6	78	720	LA	
14										317.55	1.6	6.9	483	24.0	10.4	71	790	LA	
15										310.45	1.5	6.8	485	24.0	10.4	74	530	LA	
16										310.00	1.1	6.8	465	23.0	9.8	77	540	LA	
17										361.16	0.0	6.8	517	24.0	9.8	72	360	LA	
18										290.84	0.7	6.7	533	24.0	10.1	76	740	LA	
19										316.20	1.4	6.7	528	24.0	8.0	76	720	LA	
20										319.90	1.8	6.6	528	24.0	9.0	76	700	LA	
21										332.60	1.6	6.7	528	24.0	8.8	76	660	LA	
22										345.30	1.4	6.9	528	24.0	9.3	78	700	LA	
23										347.67	1.3	5.8	528	24.0	9.5	75	770	LA	
24										340.83	1.6	6.7	528	24.0	9.1	78	670	LA	
25										295.50	1.7	6.8	511	23.0	9.7	80	520	LA	
26										306.00	1.3	6.8	491	24.0	11.3	77	510	LA	
27										327.87	1.4	6.9	484	24.0	10.7	81	470	LA	
28										363.93	1.3	6.9	483	24.0	10.0	81	510	LA	
29										321.30	1.1	6.9	484	24.0	13.9	78	560	LA	
30										342.00	2.1	6.8	483	24.0	13.2	80	470	LA	
31										369.60	1.2	7.0	483	24.0	14.5	77	810	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	8828.52	45.0	201.5	14426	694.3	316.5	2295	18910		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		294.28	1.5	6.7	481	23.1	10.6	77	630		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	M100022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR MONTH DAY
2018	07	01	2018 07 31

CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1																			
2																			
3																			
4																			
5																			
6																			
7																			
8																			
9	24.90	1.4	6.6	80	1.5	10.5	76	590	C										
10	276.90	1.9	6.7	1194	24.0	26.8	77	315	C										
11	206.43	1.5	6.8	829	16.8	20.2	74	450	C										
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
TOTAL	508.23	4.8	20.1	2103	42.3	57.5	227	1355		0.00	0.0	0.0	0	0.0	0.0	0	0		
AVERAGE	169.41	1.6	6.7	701	14.1	19.2	76	452		0.00	0.0	0.0	0	0.0	0.0	0	0		
C = Composting																			
PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP										SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT									
										DATE									



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	M00022276
MONITORING PERIOD:		TO	
YEAR	MONTH	DAY	YEAR
2018	08	01	2018
			MONTH
			08
			DAY
			31

CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To MHF	
Units	KGal	Pct	pH			Pct	Pct	mg/L		KGal	Pct	pH			Pct	Pct	mg/L		
Day																			
1										363.92	1.3	7.0	483	24.0	12.9	80	490	LA	
2										352.85	1.6	6.9	483	24.0	11.6	81	690	LA	
3										356.12	1.9	7.0	483	24.0	11.6	79	550	LA	
4										357.41	1.5	7.0	476	24.0	11.8	76	560	LA	
5										332.90	1.3	7.1	310	23.0	11.4	79	590	LA	
6										329.43	4.0	6.7	264	24.0	11.2	76	420	LA	
7										360.53	5.6	6.5	403	24.0	10.3	77	860	LA	
8										380.25	2.4	6.6	419	24.0	10.5	76	750	LA	
9										369.75	1.8	6.6	417	24.0	10.0	77	850	LA	
10										352.07	1.7	7.0	413	23.8	9.3	76	770	LA	
11										356.93	1.4	7.0	417	24.0	11.6	71	960	LA	
12										329.05	1.5	6.9	417	24.0	11.0	69	730	LA	
13										364.40	1.2	6.9	417	24.0	9.6	74	440	LA	
14										333.04	1.1	7.1	417	24.0	8.2	78	420	LA	
15										54.54	1.3	6.8	82	3.5	9.4	76	480	LA	
16										161.41	4.1	5.4	75	7.5	9.4	78	3760	LA	
17										359.58	2.0	6.2	219	24.0	9.5	77	1190	LA	
18										376.70	2.5	6.9	219	24.0	10.9	74	1190	LA	
19										361.70	1.6	6.9	219	24.0	10.9	76	1120	LA	
20										357.51	1.5	6.9	219	24.0	11.6	74	690	LA	
21										329.86	1.3	6.9	219	24.0	12.1	76	620	LA	
22										336.00	1.2	6.7	219	24.0	9.8	80	600	LA	
23										328.13	1.2	6.9	220	24.0	9.2	80	620	LA	
24										327.09	1.5	7.0	225	24.0	8.9	78	630	LA	
25										310.86	1.4	6.9	264	24.0	8.8	80	560	LA	
26										291.35	1.5	6.9	264	24.0	9.8	82	510	LA	
27										301.50	1.3	6.9	256	24.0	9.8	81	560	LA	
28										331.55	1.6	6.8	243	24.0	9.2	83	590	LA	
29										328.80	1.4	6.8	235	24.0	8.4	80	720	LA	
30										289.65	1.4	6.8	217	21.5	8.6	83	460	LA	
31										365.06	1.5	6.8	243	24.0	7.1	83	610	LA	
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0	0	10149.94	56.6	210.8	9457	703.3	314.4	2410	23990		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		327.42	1.8	6.8	305	22.7	10.1	78	774		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEE'S NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEE'S ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2018	09	01	2018 09 30

CENTRIFUGE #1										CENTRIFUGE #2									
Para- meter Units Day	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	
1										318.95	1.6	7.0	243	24.0	8.1	78	500		LA
2										292.25	1.2	7.0	243	24.0	8.0	79	470		LA
3										269.75	1.6	6.9	233	24.0	7.3	80	490		LA
4										262.40	1.6	6.8	219	24.0	7.2	82	540		LA
5										247.60	1.6	6.9	243	24.0	7.5	80	560		LA
6										195.84	2.1	6.6	158	15.5	6.6	82	530		LA
7										196.90	1.8	6.9	137	15.0	6.6	78	530		LA
8																			
9																			
10																			
11																			
12																			
13																			
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24										127.36	1.2	7.1	726	11.0	24.4	75	290		C
25										446.17	1.2	7.0	1584	24.0	23.8	77	300		C
26										208.35	1.1	7.0	900	14.0	23.9	78	230		C
27																			
28																			
29																			
30																			
31																			
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		2565.57	15.0	69.2	4686	199.5	123.4	789	4440		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		256.56	1.5	6.9	469	20.0	12.3	79	444		
C = Compost																			

C = Compost

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEE'S NAME <b>CITY OF BATTLLE CREEK - WWTP</b>
PERMITTEE'S ADDRESS <b>2000 WEST RIVER ROAD</b>
CITY, STATE, ZIP CODE <b>BATTLLE CREEK, MICHIGAN 49037</b>

DISCHARGE NUMBER <b>001</b>		PERMIT NUMBER <b>M100022276</b>	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
<b>2018</b>	<b>09</b>	<b>01</b>	<b>2018 09 30</b>

		CENTRIFUGE # 3										CENTRIFUGE # 4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To		Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To		
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF		KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF		
Day																					
1																					
2																					
3																					
4																					
5																					
6																					
7	116.40	1.8	6.9	82	9.0	6.6	78	630	LA												
8	303.70	1.5	6.9	215	23.5	8.5	78	650	LA												
9	329.32	1.2	7.0	227	24.0	9.2	80	660	LA												
10	335.63	1.3	7.0	242	24.0	10.5	82	400	LA												
11	293.95	1.8	7.0	264	24.0	9.6	82	490	LA												
12	328.93	1.4	7.0	264	24.0	10.4	80	400	LA												
13	269.47	1.4	6.9	192	19.0	11.9	82	400	LA												
14	331.90	1.2	7.0	243	24.0	8.9	79	540	LA												
15	312.35	1.4	6.9	264	24.0	8.9	80	470	LA												
16	278.95	1.1	6.9	264	24.0	11.5	84	430	LA												
17	316.80	1.1	7.1	264	24.0	9.0	79	450	LA												
18	334.75	1.6	7.0	264	24.0	6.6	82	460	LA												
19	351.25	1.6	7.0	264	24.0	7.2	81	530	LA												
20	319.34	1.4	6.9	231	21.0	7.3	78	720	LA												
21	362.69	1.4	7.0	264	24.0	6.2	79	670	LA												
22	395.84	1.2	7.1	264	24.0	10.7	78	540	LA												
23	425.28	0.6	7.0	264	24.0	11.3	81	460	LA												
24	184.01	1.2	7.1	142	15.0	10.9	76	510	LA												
25																					
26	140.67	1.1	7.0	110	10.0	10.1	74	520	LA												
27	371.70	1.1	7.0	285	24.0	10.4	80	460	LA												
28	376.16	1.1	6.9	287	24.0	10.6	81	520	LA												
29	377.08	1.2	7.0	285	24.0	12.2	84	550	LA												
30	383.25	1.1	7.0	285	24.0	10.6	84	270	LA												
31																					
TOTAL	7239.42	29.8	160.6	5466	505.5	219.1	1842	11730			0.00	0.0	0.0	0	0.0	0.0	0	0			
AVERAGE	314.76	1.3	7.0	238	22.0	9.5	80	510			0.00	0.0	0.0	0	0.0	0.0	0	0			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <b>RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP</b>	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
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MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	M00022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR
2018	10	01	2018
			MONTH
			DAY
			31

CENTRIFUGE # 3											CENTRIFUGE # 4										
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge
Units	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	KGal	Pct	pH
Day																					
1	386.03	1.1	7.1	267	24.0	10.4	78	600	LA												
2	362.01	0.9	6.9	331	22.0	9.8	82	540	LA												
3	210.01	0.8	7.0	136	11.0	8.1	82	490	LA	200.30	0.8	7.0	226	13.0	8.1	82	510				
4										267.80	1.2	6.6	279	17.5	5.5	80	800				
5										341.12	1.0	7.1	450	24.0	10.3	80	330				
6										318.95	0.4	7.1	278	22.0	15.1	79	500				
7										380.20	1.2	7.0	285	24.0	13.7	80	480				
8										349.04	1.0	7.0	285	24.0	11.6	82	530				
9										372.14	1.1	7.0	277	23.0	13.5	78	690				
10										386.02	1.5	7.1	234	24.0	13.1	81	670				
11										365.16	1.0	6.9	219	24.0	10.7	77	500				
12										337.24	1.2	7.1	219	24.0	11.3	77	470				
13										305.60	1.2	6.8	249	23.5	12.4	78	400				
14										292.09	1.0	7.0	219	24.0	14.0	74	410				
15										337.81	1.2	6.9	249	24.0	13.9	78	500				
16										322.10	1.0	6.8	218	22.0	14.0	79	410				
17										392.60	0.8	6.9	191	24.0	12.8	77	450				
18										402.19	1.0	7.0	176	24.0	11.2	78	620				
19										410.91	0.7	7.0	176	24.0	9.0	81	490				
20										386.20	1.0	7.1	194	24.0	12.6	84	570				
21										384.17	0.6	7.1	177	24.0	12.7	79	450				
22										364.85	0.7	7.0	177	24.0	12.4	78	490				
23										399.10	1.2	6.8	176	24.0	12.1	84	650				
24										414.25	1.0	7.1	177	24.0	11.7	83	730				
25										402.50	0.7	7.1	204	24.0	11.2	81	600				
26										386.08	0.9	6.9	205	24.0	10.3	82	470				
27										385.90	1.4	7.1	212	24.0	12.3	83	570				
28										405.35	0.8	7.1	219	24.0	11.9	83	500				
29										370.65	0.8	7.0	219	24.0	10.8	82	530				
30										400.90	1.0	7.0	219	24.0	10.0	84	550				
31										425.25	0.6	7.1	198	24.0	10.9	82	590				
TOTAL	958.05	2.8	21.0	734	57.0	28.3	242	1630		10515.47	28.0	202.7	6607	673.0	339.1	2326	15460				
AVERAGE	319.35	0.9	7.0	245	19.0	9.4	81	543		362.60	1.0	7.0	228	23.2	11.7	80	533				

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 1 AND 2

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER		PERMIT NUMBER	
001		MI00022276	
MONITORING PERIOD:			
YEAR	MONTH	DAY	TO
2018	11	01	2018 11 30

CENTRIFUGE #1										CENTRIFUGE #2									
Para-meter Units	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	Feed Sludge KGal	Feed Solids Pct	Feed Sludge pH	Polymer lbs	Operation Hours	Cake Solids Pct	Cake Vol. Solids Pct	Centrate Solids mg/L	Output To MHF	
1																			
2																			
3																			
4																			
5																			
6										144.99	0.6	7.1	110	12.0	8.1	84	360	LA	
7										293.81	0.7	7.0	177	24.0	7.9	84	290	LA	
8										292.20	0.7	7.1	221	24.0	8.2	80	220	LA	
9										280.40	0.6	7.0	264	24.0	13.8	81	210	LA	
10										256.30	0.6	7.0	240	23.0	13.4	82	90	LA	
11										284.39	0.8	7.1	243	24.0	12.6	79	240	LA	
12										303.35	0.8	7.0	235	24.0	14.0	80	250	LA	
13										141.42	0.6	7.0	110	12.0	15.2	81	240	LA	
14																			
15																			
16																			
17																			
18																			
19																			
20																			
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
TOTAL	0.00	0.0	0.0	0	0.0	0.0	0	0		1996.86	5.4	56.3	1600	167.0	93.2	651	1900		
AVERAGE	0.00	0.0	0.0	0	0.0	0.0	0	0		249.61	0.7	7.0	200	20.9	11.7	81	238		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
**DAILY DISCHARGE MONITORING REPORT**

CENTRIFUGE 3 & 4

PERMITTEES NAME	
CITY OF BATTLE CREEK - WWTP	
PERMITTEES ADDRESS	
2000 WEST RIVER ROAD	
CITY, STATE, ZIP CODE	
BATTLE CREEK, MICHIGAN 49037	

DISCHARGE NUMBER				PERMIT NUMBER			
001				MI00022276			
MONITORING PERIOD:							
YEAR	MONTH	DAY	FROM	YEAR	MONTH	DAY	TO
2018	11	01		2018	11	30	

CENTRIFUGE #3											CENTRIFUGE #4										
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To		Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To		
Units	KGai	Pct	pH			Pct	Pct	mg/L	MHF		KGai	Pct	pH			Pct	Pct	mg/L	MHF		
Day																					
1											420.46	0.9	7.0	205	24.0	12.1	84	660	LA		
2											419.89	0.8	7.1	175	24.0	11.9	80	580	LA		
3											446.60	0.7	6.9	153	24.0	9.1	84	630	LA		
4											498.67	0.8	7.2	153	24.0	12.1	79	530	LA		
5											488.83	1.0	7.2	183	24.0	11.0	82	630	LA		
6											428.86	0.6	7.1	161	24.0	8.1	84	460	LA		
7											284.75	0.7	7.0	132	24.0	7.9	84	330	LA		
8											302.40	0.7	7.1	146	24.0	8.2	80	300	LA		
9											318.40	0.6	7.0	153	24.0	13.8	81	290	LA		
10											284.60	0.6	7.0	150	23.5	13.4	82	170	LA		
11											283.10	0.8	7.1	153	24.0	12.6	79	340	LA		
12											294.38	0.8	7.0	146	24.0	14.0	80	280	LA		
13	57.14	0.6	7.0	64	6.5	15.2	81	270	LA		268.09	0.6	7.0	132	24.0	15.2	81	340	LA		
14											204.50	1.2	6.8	146	24.0	14.3	82	540	LA		
15											189.82	1.5	6.7	153	24.0	13.7	78	550	LA		
16											199.35	1.1	6.9	153	24.0	13.0	82	690	LA		
17											229.25	2.1	6.8	153	24.0	13.1	80	890	LA		
18											226.31	1.9	6.9	153	24.0	13.8	79	580	LA		
19											219.19	0.9	7.1	153	24.0	13.0	76	510	LA		
20											246.11	1.8	6.7	153	24.0	12.8	80	1180	LA		
21											264.89	2.0	6.7	176	24.0	11.6	83	1050	LA		
22											282.18	1.7	6.6	198	24.0	11.0	77	1120	LA		
23											272.83	1.5	6.9	230	24.0	11.6	78	850	LA		
24											301.25	1.2	6.9	205	24.0	12.0	80	750	LA		
25											307.30	1.2	6.9	212	24.0	10.8	83	610	LA		
26											298.77	1.3	7.0	219	24.0	9.5	80	690	LA		
27											260.68	1.3	7.0	219	24.0	9.0	83	600	LA		
28											257.20	1.5	6.9	219	24.0	9.7	81	760	LA		
29											234.93	1.5	6.8	219	24.0	9.7	83	680	LA		
30											229.67	1.8	6.8	219	24.0	10.0	81	770	LA		
31																					
TOTAL	57.14	0.6	7.0	64	6.5	15.2	81	270			8963.26	35.1	208.1	5222	719.5	348.0	2426	18360			
AVERAGE	57.14	0.6	7.0	64	6.5	15.2	81	270			298.78	1.2	6.9	174	24.0	11.6	81	612			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

DATE



MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 1 AND 2

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	M100022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR MONTH DAY
2018	12	01	2018 12 31

CENTRIFUGE #1											CENTRIFUGE #2										
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To		Feed Sludge	Feed Solids	Feed Sludge	Polymer lbs	Operation Hours	Cake Solids	Cake Vol. Solids	Centrate Solids	Output To		
Units	KGal	Pct	pH			Pct	Pct	mg/L	MHF		KGal	Pct	pH			Pct	Pct	mg/L	MHF		
Day																					
1																					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					
13																					
14																					
15																					
16																					
17																					
18																					
19																					
20	55.52	1.9	6.8	514	8.0	25.5	76	590	LF												
21	209.70	2.2	6.6	1341	24.0	29.5	75	370	LF												
22											64.54	2.5	6.1	326	8.0	28.5	79	240	LF		
23											161.40	2.2	6.5	872	22.0	27.8	77	230	LF		
24											182.90	1.4	6.8	1014	24.0	26.7	74	170	LF		
25											204.00	2.0	6.9	1014	24.0	25.2	75	200	LF		
26											298.39	1.7	6.8	1173	24.0	23.5	76	290	LF		
27											318.90	2.0	7.0	1480	24.0	25.0	75	500	LF		
28											209.85	1.6	6.8	1511	24.0	26.5	74	370	LF		
29											219.15	1.1	6.8	1208	24.0	26.1	74	210	LF		
30											187.22	1.5	6.8	1212	24.0	26.0	76	280	LF		
31											186.78	1.4	6.7	1212	24.0	26.0	74	350	LF		
TOTAL	265.22	4.1	13.4	1855	32.0	55.0	151	960			2032.13	17.4	67.2	11022	222.0	261.3	754	2840			
AVERAGE	132.61	2.1	6.7	928	16.0	27.5	76	480			203.21	1.7	6.7	1102	22.2	26.1	75	284			

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		

MICHIGAN DEPARTMENT OF ENVIRONMENTAL QUALITY  
SURFACE WATER QUALITY DIVISION  
DAILY DISCHARGE MONITORING REPORT

CENTRIFUGE 3 & 4

PERMITTEES NAME	CITY OF BATTLE CREEK - WWTP
PERMITTEES ADDRESS	2000 WEST RIVER ROAD
CITY, STATE, ZIP CODE	BATTLE CREEK, MICHIGAN 49037

DISCHARGE NUMBER	001	PERMIT NUMBER	MI00022276
MONITORING PERIOD:		FROM	TO
YEAR	MONTH	DAY	YEAR
2018	12	01	2018
			MONTH
			DAY
			31

CENTRIFUGE #3										CENTRIFUGE #4									
Para-meter	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	Feed Sludge	Feed Solids	Feed Sludge	Polymer	Operation	Cake Solids	Cake Vol.	Centrate Solids	Output To	
Units	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	Kgal	Pct	pH	lbs	Hours	Pct	Pct	mg/L	MHF	
Day																			
1										240.21	1.5	6.8	219	24.0	10.2	82	840	L	
2										254.28	1.7	6.9	219	24.0	9.8	81	1200	L	
3										239.72	1.7	7.0	219	24.0	8.2	82	1090	L	
4	52.95	1.2	6.6	83	2.0	18.7	80	2900	LF	98.45	1.2	6.6	73	8.0	7.6	84	1780	L	
5	300.01	1.7	6.9	1212	24.0	24.4	79	870	LF										
6	268.60	1.5	6.9	1320	24.0	26.1	77	220	LF										
7	242.38	1.9	6.9	1254	24.0	24.2	81	240	LF										
8	180.53	1.4	6.8	1155	24.0	25.8	77	210	LF										
9	138.64	1.7	6.7	990	24.0	23.2	77	170	LF										
10	236.75	1.9	6.5	1214	24.0	27.7	73	230	LF										
11	170.36	1.8	6.8	807	14.0	23.9	78	280	LF										
12	176.48	2.6	6.6	775	13.0	24.0	75	370	LF										
13	245.25	2.1	6.8	1504	24.0	24.6	76	310	LF										
14	195.25	2.0	6.7	1365	24.0	25.4	75	280	LF										
15	130.80	2.2	6.8	1173	24.0	27.9	75	160	LF										
16	137.08	2.0	6.8	1101	24.0	28.9	74	150	LF										
17	157.42	2.2	6.6	1018	17.8	28.9	74	190	LF										
18	287.65	2.7	6.4	1390	24.0	24.0	78	400	LF										
19	233.75	2.2	6.8	1476	24.0	25.5	76	260	LF										
20	177.86	1.9	6.8	1087	17.5	25.5	76	260	LF										
21																			
22																			
23																			
24																			
25																			
26																			
27																			
28																			
29																			
30																			
31																			
TOTAL	3331.76	33.0	114.4	18924	352.3	428.7	1301	7500		832.66	6.1	27.3	730	80.0	35.8	329	4910		
AVERAGE	195.99	1.9	6.7	1113	20.7	25.2	77	441		208.17	1.5	6.8	183	20.0	9.0	82	1228		

PRINTED NAME AND TITLE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	DATE
RICHARD E. BEARDSLEE, SUPERINTENDENT WWTP		