

**Macomb County Health Department
Environmental Health Services Division
Retention Basin/Combined Sewer/Sanitary Sewer Overflows
For the dates : 01/01/2011 through 12/31/2011**

Start	Start Time	End	End Time	Hours	Receiving Water	Volume (Gallons)	Meets NPDES	Precip Type
ALMONT WWTP								
05/19/2011	06:00 AM				N. Branch Clinton River		N	0.95 SSO
05/27/2011	03:00 AM	05/29/2011	01:00 PM	54.00	N. Branch Clinton River	2,000,000	N	SSO
Sub Totals for Almont Wwtp				54.00		2,000,000		
CENTERLINE								
05/25/2011	04:51 PM	05/27/2011	12:00 PM	43.00	Lorraine Drain	8,240,000	N	4.24 SSO
10/19/2011	10:30 PM	10/20/2011	08:30 AM	10.00	Lorraine Drain	2,050,000	N	2.15 SSO
11/29/2011	09:15 AM	11/30/2011	09:00 AM	23.45	Lorraine Drain	13,330,000	N	3 SSO
Sub Totals for Centerline				76.45		23,620,000		
CHAPATON RTB								
02/28/2011	09:30 AM	02/28/2011	09:15 PM	11.75	Lake St. Clair	8,600,000	Y	0.73 CSO-T
03/05/2011	05:30 AM	03/07/2011	03:11 AM	45.68	Lake St. Clair	41,360,000	Y	1.25 CSO-T
03/09/2011	07:40 PM	03/10/2011	11:50 AM	16.20	Lake St. Clair	11,390,000	Y	0.86 CSO-T
03/11/2011	08:00 PM	03/11/2011	10:05 PM	2.10	Lake St. Clair	4,250,000	Y	CSO-T
03/23/2011	08:00 AM	03/23/2011	02:05 PM	6.10	Lake St. Clair	3,420,000	Y	0.74 CSO-T
04/20/2011	04:00 AM	04/20/2011	12:07 PM	8.10	Lake St. Clair	4,870,000	Y	0.99 CSO-T
04/23/2011	04:30 AM	04/23/2011	06:00 PM	13.50	Lake St. Clair	33,000,000	Y	1.22 CSO-T
04/27/2011	11:20 AM	04/28/2011	05:20 PM	18.75	Lake St. Clair	15,370,000	Y	1.04 CSO-T
05/15/2011	02:30 PM	05/16/2011	01:00 PM	22.50	Lake St. Clair	19,080,000	Y	2.01 CSO-T
05/25/2011	11:35 AM	05/27/2011	03:38 AM	32.60	Lake St. Clair	307,900,000	Y	3.25 CSO-T
07/28/2011	07:00 AM	07/29/2011	02:20 PM	15.42	Lake St. Clair	44,410,000	Y	2.86 CSO-T
08/09/2011	06:45 PM	08/10/2011	02:00 AM	5.25	Lake St. Clair	15,680,000	Y	2.02 CSO-T
09/10/2011	05:00 AM	09/10/2011	02:00 PM	9.00	Lake St. Clair	49,990,000	Y	2.66 CSO-T
10/19/2011	07:40 PM	10/20/2011	08:50 PM	25.17	Lake St. Clair	70,880,000	Y	2.76 CSO-T
11/23/2011	01:40 AM	11/23/2011	11:27 AM	9.78	Lake St. Clair	12,260,000	Y	1.38 CSO-T
11/29/2011	02:10 AM	11/30/2011	10:20 AM	32.17	Lake St. Clair	158,950,000	Y	2.77 CSO-T
Sub Totals for Chapaton Rtb				274.07		801,410,000		
CLINTON - BEACONSFIELD								
05/25/2011	09:46 PM	05/25/2011	10:17 PM	0.50	Roseclihar Drain	35,321	N	SSO
05/25/2011	10:44 PM	05/25/2011	11:16 PM	0.50	Roseclihar Drain	35,321	N	SSO
05/25/2011	08:54 PM	05/25/2011	09:25 PM	0.50	Roseclihar Drain	35,321	N	SSO
05/25/2011	08:08 PM	05/25/2011	08:41 PM	0.50	Roseclihar Drain	35,321	N	SSO
05/25/2011	07:28 PM	05/25/2011	07:58 PM	0.50	Roseclihar Drain	35,321	N	SSO
05/25/2011	06:45 PM	05/25/2011	07:18 PM	0.50	Roseclihar Drain	35,321	N	SSO

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05/25/2011	06:05 PM	05/25/2011	06:33 PM	0.50	Roseclinha Drain	35,321	N	SSO
05/25/2011	04:33 PM	05/25/2011	05:01 PM	0.50	Roseclinha Drain	35,321	N	1.62 SSO
05/25/2011	05:21 PM	05/25/2011	05:51 PM	0.50	Roseclinha Drain	35,321	N	SSO
05/26/2011	00:44 AM	05/26/2011	01:21 AM	0.60	Roseclinha Drain	42,385	N	SSO
10/19/2011	09:42 PM	10/19/2011	11:16 PM	1.02	Roseclinha Drain	63,000	N	2.28 SSO
11/29/2011	06:33 AM	11/29/2011	10:30 PM	7.70	Roseclinha Drain	340,000	N	3.02 SSO
Sub Totals for Clinton - Beaconsfield				13.82		763,274		

CLINTON - GOLDEN

03/05/2011	09:05 AM	03/05/2011	09:35 AM	0.50	Clinton River	132,022	N	0.60 SSO
05/25/2011	11:14 PM	05/25/2011	11:44 PM	0.50	Clinton River		N	SSO
05/25/2011	10:36 PM	05/25/2011	11:04 PM	0.50	Clinton River		N	SSO
05/25/2011	04:21 PM	05/25/2011	10:31 PM	4.20	Clinton River		N	1.62 SSO
05/25/2011	11:58 PM	05/26/2011	00:29 AM	0.50	Clinton River		N	SSO
05/26/2011	00:59 AM	05/26/2011	01:29 AM	0.50	Clinton River		N	SSO
06/21/2011	11:04 PM	06/22/2011	00:35 AM	1.50	Clinton River	170,000	N	1.30 SSO
10/19/2011	09:10 PM	10/20/2011	00:19 AM	2.28	Clinton River		N	SSO
10/20/2011	00:40 AM	10/20/2011	01:10 AM	0.50	Clinton River	27,000	N	2.28 SSO
11/29/2011	05:46 AM	11/30/2011	00:19 AM	12.10	Clinton River	108,000	N	3.02 SSO
Sub Totals for Clinton - Golden				23.08		437,022		

CLINTON - KING DRAIN

05/15/2011	01:55 PM	05/15/2011	04:35 PM	1.00	Clinton River	37,774	N	1.48 SSO
05/25/2011	07:31 PM	05/25/2011	08:02 PM	0.50	Clinton River	22,833	N	SSO
05/25/2011	05:55 PM	05/25/2011	06:50 PM	0.90	Clinton River	41,098	N	1.62 SSO
11/29/2011	11:44 AM	11/29/2011	10:26 PM	6.80	Clinton River	277,000	N	3.02 SSO
Sub Totals for Clinton - King Drain				9.20		378,705		

CLINTON - LITTLE MACK

05/25/2011	06:21 PM	05/25/2011	06:58 PM	0.60	Lake St. Clair	12,705	N	SSO
05/25/2011	05:33 PM	05/25/2011	05:57 PM	0.40	Lake St. Clair	8,470	N	1.62 SSO
05/25/2011	07:06 PM	05/25/2011	07:32 PM	0.40	Lake St. Clair	8,471	N	SSO
05/25/2011	07:49 PM	05/25/2011	08:20 PM	0.60	Lake St. Clair	12,706	N	SSO
11/29/2011	12:30 PM	11/29/2011	10:00 PM	9.50	Lake St. Clair	237,000	N	3.02 SSO
Sub Totals for Clinton - Little Mack				11.50		279,352		

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CLINTON - MULBERRY

05/25/2011	08:56 PM	05/25/2011	09:23 PM	0.50	Clinton River	22	N	1.62 SSO
Sub Totals for Clinton - Mulberry				0.50		22		

CLINTON - N.NUNNELEY

05/25/2011	07:16 PM	05/26/2011	02:07 AM	6.90	Roseclinha Drain	181,876	N	1.62 SSO
11/29/2011	09:07 AM	11/29/2011	10:44 PM	12.30	Roseclinha Drain	302,000	N	3.02 SSO
Sub Totals for Clinton - N.Nunneley				19.20		483,876		

CLINTON - RUTHERFORD

05/25/2011	04:48 PM	05/25/2011	05:18 PM	0.50	Roseclinha Drain	10,023	N	1.62 SSO
05/25/2011	06:30 PM	05/25/2011	07:01 PM	0.50	Roseclinha Drain	10,023	N	SSO
05/25/2011	07:17 PM	05/25/2011	07:47 PM	0.50	Roseclinha Drain	10,023	N	SSO
05/25/2011	08:21 PM	05/25/2011	08:53 PM	0.50	Roseclinha Drain	10,023	N	SSO
05/25/2011	09:44 PM	05/25/2011	10:13 PM	0.50	Roseclinha Drain	10,024	N	SSO
05/25/2011	05:36 PM	05/25/2011	06:07 PM	0.50	Roseclinha Drain	10,023	N	SSO
10/19/2011	10:35 PM	10/19/2011	11:05 PM	0.50	Roseclinha Drain	12,000	N	2.28 SSO
11/29/2011	07:28 AM	11/29/2011	08:43 PM	6.00	Roseclinha Drain	18,000	N	3.02 SSO
Sub Totals for Clinton - Rutherford				9.50		90,139		

FRASER

02/27/2011	12:45 PM	02/27/2011	01:45 AM	1.00	Sweeney Drain	40,731	N	0.57 SSO
03/05/2011	02:30 AM	03/05/2011	08:45 AM	6.25	Sweeney Drain	409,334	N	0.92 SSO
03/09/2011	10:30 AM	03/09/2011	03:15 PM	4.75	Sweeney Drain	256,844	N	0.67 SSO
03/20/2011	10:30 PM	03/20/2011	11:15 PM	0.75	Sweeney Drain	40,395	N	0.76 SSO
03/22/2011	11:00 PM	03/22/2011	11:45 PM	0.75	Sweeney Drain	30,296	N	0.68 SSO
04/22/2011	11:00 PM	04/23/2011	01:45 AM	2.75	Sweeney Drain	67,699	N	0.84 SSO
04/28/2011	07:00 AM	04/28/2011	08:00 AM	100.00	Sweeney Drain	61,265	N	0.66 SSO
05/15/2011	09:00 AM	05/15/2011	12:00 PM	3.00	Sweeney Drain	183,796	N	1.08 SSO
05/25/2011	10:15 AM	05/25/2011	10:15 AM	12.00	Sweeney Drain	767,165	N	2.66 SSO
Sub Totals for Fraser				131.25		1,857,525		

MARTIN RTB

02/28/2011	09:00 AM	02/28/2011	10:16 PM	13.30	Lake St. Clair	21,590,000	Y	0.73 CSO-T
03/05/2011	05:15 AM	03/06/2011	01:56 AM	20.68	Lake St. Clair	58,760,000	Y	1.23 CSO-T
03/09/2011	05:32 PM	03/11/2011	00:50 AM	26.10	Lake St. Clair	39,320,000	Y	0.86 CSO-T
03/21/2011	04:44 AM	03/21/2011	05:45 PM	13.01	Lake St. Clair	18,440,000	Y	0.93 CSO-T

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03/23/2011	04:20 AM	03/23/2011	11:28 PM	17.30	Lake St. Clair	29,760,000	Y	0.75 CSO-T
04/06/2011	10:07 PM	04/07/2011	02:49 AM	4.02	Lake St. Clair	6,540,000	Y	0.76 CSO-T
04/20/2011	04:20 AM	04/20/2011	03:37 PM	11.30	Lake St. Clair	20,650,000	Y	0.92 CSO-T
04/23/2011	05:15 AM	04/23/2011	07:30 PM	14.25	Lake St. Clair	35,930,000	Y	0.96 CSO-T
04/27/2011	12:00 PM	04/28/2011	08:35 PM	28.22	Lake St. Clair	41,070,000	Y	1.05 CSO-T
05/15/2011	03:10 PM	05/16/2011	05:05 PM	25.90	Lake St. Clair	55,880,000	Y	1.82 CSO-T
05/25/2011	12:40 PM	05/27/2011	01:20 PM	46.20	Lake St. Clair	175,400,000	Y	2.97 CSO-T
07/28/2011	07:20 AM	07/28/2011	03:10 PM	7.80	Lake St. Clair	25,790,000	Y	2.77 CSO-T
09/10/2011	06:40 AM	09/10/2011	04:18 PM	9.60	Lake St. Clair	33,340,000	Y	1.72 CSO-T
10/19/2011	07:05 PM	10/20/2011	11:26 PM	27.40	Lake St. Clair	89,870,000	Y	2.60 CSO-T
11/23/2011	02:00 AM	11/23/2011	08:37 AM	6.60	Lake St. Clair	11,430,000	Y	1.21 CSO-T
11/27/2011	08:00 PM	11/28/2011	05:33 AM	9.50	Lake St. Clair	14,910,000	Y	1.03 CSO-T
11/29/2011	02:45 AM	11/30/2011	08:20 PM	38.40	Lake St. Clair	183,730,000	Y	2.87 CSO-T
Sub Totals for Martin Rtb				319.58		862,410,000		

MILK RIVER RTB

02/28/2011	04:30 AM	02/28/2011	04:09 PM	4.00	Lake St. Clair	21,258,627	Y	0.37 CSO-T
06/21/2011	10:38 PM	06/22/2011	11:50 PM	1.20	Lake St. Clair	2,223,305	Y	0.51 CSO-T
11/28/2011	11:48 PM	11/30/2011	09:20 AM	27.41	Lake St. Clair	244,186,808	Y	2.95 CSO-T
12/05/2011	02:50 AM	12/05/2011	09:07 PM	2.26	Lake St. Clair	21,793,570	Y	0.42 CSO-T
12/06/2011	03:39 PM	12/06/2011	04:18 PM	0.65	Lake St. Clair	7,176,000	Y	0 CSO-T
12/15/2011	05:00 PM	12/15/2011	05:18 PM	0.18	Lake St. Clair	2,223,000	Y	0.77 CSO-T
Sub Totals for Milk River Rtb				35.70		298,861,310		

MT. CLEMENS RTB

03/25/2011	10:00 AM	03/25/2011	09:45 PM	11.75	Clinton River	2,336,000	Y	0.53 CSO-T
05/25/2011	05:40 PM	05/29/2011	08:00 AM	79.90	Clinton River	34,500,000	Y	CSO-T
11/29/2011	07:05 PM	12/02/2011	01:00 PM	65.55	Clinton River	30,836,000	Y	4.55 CSO-T
12/05/2011	05:15 PM	12/07/2011	11:00 AM	41.45	Clinton River	5,518,000	Y	5.35 CSO-T
Sub Totals for Mt. Clemens Rtb				198.65		73,190,000		

SOCSDS RTB

03/05/2011	04:25 AM	03/05/2011	11:20 PM	19.00	Red Run Drain	213,300,000	Y	1.14 CSO-T
03/09/2011	06:30 PM	03/10/2011	02:30 AM	4.00	Red Run Drain	28,400,000	Y	0.80 CSO-T
03/21/2011	04:00 AM	03/21/2011	10:45 PM	18.75	Red Run Drain	22,500,000	Y	0.90 CSO-T
03/23/2011	08:00 AM	03/23/2011	04:35 PM	8.60	Red Run Drain	35,500,000	Y	0.70 CSO-T
04/23/2011	05:00 AM	04/23/2011	02:30 PM	9.50	Red Run Drain	48,800,000	Y	1 CSO-T
04/28/2011	03:52 AM	04/29/2011	01:20 AM	21.50	Red Run Drain	278,800,000	Y	2.40 CSO-T
05/15/2011	02:10 PM	06/16/2011	02:20 AM	12.20	Red Run Drain	86,500,000	Y	1.20 CSO-T

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05/25/2011	12:10 PM	05/27/2011	06:03 PM	53.90	Red Run Drain	1,304,200,000	Y	3.78 CSO-T
07/28/2011	04:30 AM	07/26/2011	09:45 AM	11.60	Red Run Drain	203,000,000	Y	3.24 CSO-T
09/10/2011	06:30 AM	09/10/2011	02:24 PM	7.90	Red Run Drain	159,900,000	Y	2.10 CSO-T
09/11/2011	09:25 PM	09/11/2011	10:25 PM	1.00	Red Run Drain	1,600,000	Y	0.10 CSO-T
09/26/2011	12:24 PM	09/02/2011	04:15 PM	3.80	Red Run Drain	22,700,000	Y	1.10 CSO-T
10/19/2011	09:00 PM	10/20/2011	08:15 PM	20.55	Red Run Drain	214,900,000	Y	2.35 CSO-T
11/23/2011	01:40 AM	11/23/2011	06:00 AM	4.20	Red Run Drain	28,200,000	Y	1.10 CSO-T
11/29/2011	01:05 AM	11/30/2011	05:00 PM	39.55	Red Run Drain	591,600,000	Y	3.50 CSO-T
Sub Totals for Socds Rtb				236.05		3,239,900,000		

WARREN

03/05/2011	06:45 PM	03/07/2011	07:00 AM	36.45	Red Run Drain	23,000,000	N	1.47 Basin
03/09/2011	06:10 PM	03/12/2011	05:30 AM	58.20	Red Run Drain	34,000,000	N	1.02 Basin
04/27/2011	08:30 PM	04/30/2011	05:09 AM	35.60	Red Run Drain	67,530,000	N	2.54 Basin
05/26/2011	00:24 AM	05/30/2011	02:20 AM	97.90	Red Run Drain	126,120,000	N	4.04 Basin
10/20/2011	07:50 AM	10/21/2011	08:20 PM	36.30	Red Run Drain	38,100,000	N	2.90 Basin
11/29/2011	10:37 AM	12/02/2011	04:25 AM	53.48	Red Run Drain	149,900,000	N	3.70 Basin
12/06/2011	05:20 PM	12/07/2011	05:22 AM	12.05	Red Run Drain	4,300,000	N	0.95 SSO-T
Sub Totals for Warren				329.98		442,950,000		

Total all locations	1742.53	5,748,631,225
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