

## Constructed Sanitary Sewer Overflow Locations

District Site Number	WPDES Permit ID number	Location	Pump or Gravity	Current SCADA	Current Portable	Proposed SCADA	Notes
BS0101	220	S Howell Ave at E Grange Ave (ext'd)	Gravity	No	Yes	Yes	Installed portable on 3/15/06
BS0302	233	W Fisher Pkwy at N 106th St	Gravity	Yes			
BS0303	247	W Oklahoma Ave, 100 feet w/o S 74th St	Pump	Yes			
BS0304	242	S 79th St (ext'd) & W Dickenson St (ext'd)	Gravity	No	Yes	Yes	
BS0401	235	N Honey Creek Pkwy & W Wisconsin Ave	Pump	Yes			
BS0402	237	N Menomonee River Pkwy, 300 feet e/o N 68th St	Gravity	No	No	Yes	
BS0403	234	N Honey Creek Pkwy & W Portland Ave	Gravity	No	Yes	Yes	
BS0404	263	W Green Tree Rd & Milwaukee River	Gravity	Yes			
BS0501	230	N Richards St & E Congress St	Gravity	Yes			
BS0503	226	W Roosevelt Dr & N 35th St	Pump	Yes			
BS0504	214	W Hampton Ave & N Lydell Ave	Gravity	No	No	No	Manually activated gate
BS0505	223	W Villard Ave & N 27th St	Pump	Yes			
BS0506	231	N Range Line Rd & Milwaukee River (east side)	Pump	Yes			
BS0507	229	N 46th St & W State St	Gravity	Yes			
BS0508	213	W Hampton Ave at N Green Bay Rd (east side)	Gravity	No	Yes	No	Site to be changed to conveyance facility
BS0509	212	W Hampton Ave & N Green Bay Rd (west side)	Gravity	No	Yes	No	Site to be abandoned
BS0510	208	N 31st St (ext'd) & Lincoln Creek (north side)	Gravity	No	No	Yes	Site was abandoned in 2005 with construction of N 31 <sup>st</sup> St Relief MIS
BS0511	207	N 31st St & W Fairmont Ave	Gravity	No	No	Yes	Site to be abandoned when

**Constructed Sanitary Sewer Overflow Locations**

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							ownership of the sewer is conveyed to the City of Milw
BS0512	244	N Lydell Ave & W Lancaster Ave	Gravity	No	No	No	Manually activated gate
BS0513	245	N Lydell Ave & W Montclair Ave	Gravity	Yes	Yes	No	MS0508, and portable meter in overflow pipe
BS0514	209	N 27th St & W Silver Spring Dr	Gravity	No	Yes	No	DISTRICT expects to turn this over to the City of Milwaukee
BS0515	N/A	200 E River Woods Parkway. [Manhole 02140 – s/o E Hampton Rd & N Lydell Ave, s/o Milwaukee River (formerly Pillsbury Silos)]	Gravity	No	No	Yes	Manholes modified as part of Northeast Side Flow Control Gates, rim elevation unknown
BS0516	N/A	4700 N Estabrook Parkway. [Manhole 02141 – s/o E Hampton Rd & N Lydell Ave, n/o Milwaukee River (formerly Pillsbury Silos)]	Gravity	No	No	Yes	Manholes modified as part of Northeast Side Flow Control Gates, rim elevation unknown
BS0601	225	S 35th St & W Manitoba St	Pump	Yes			
BS0602	232	S Kinnickinnic Ave & E St Francis Ave	Gravity	Yes			
BS0603	243	W Lincoln Ave, 565 feet w/o S 43rd St	Gravity	No	Yes	No	Site to be checked whether it can be abandoned
BS0604	221	S 1st St & W Layton Ave	Gravity	No	Yes	No	Planning to abandon
BS0701	250	S Water St & E Bruce St	Gravity	Yes	No		
DC0103	260	S 6th St & W Oklahoma Ave	Gravity	Yes			
DC0402	262	N 59th St & W Trenton Pl	Gravity	Yes			
MS0409	206	RR Tracks 500' s/o Milwaukee/Ozaukee County border and 200' w/o	Gravity	Yes			Level sensor in MS0409, which has a gravity overflow pipe

**Constructed Sanitary Sewer Overflow Locations**

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		Waverly Rd					
PS0402	264	Ravine Lift Station	Gravity	Yes			
N/A	248	At treatment facility - southeast cooling water discharge	Gravity	No	No	No	Outfall is sampled monthly
N/A	249	At treatment facility - north cooling water discharge	Gravity	No	No	No	Outfall is sampled monthly
N/A	205	W Roosevelt Dr & W Scranton Pl	Gravity	No	No	No	Abandoned 42 inch bypass pipe

### Constructed Combined Sewer Overflow Locations

Receiving water (of combined sewer overflow)	Combined Sewer Outfall Number	Diversion Structure Number	ISS Drop Shaft	Intercepting Structure Number	IS upstream of DS	Location	Notes
Burnham Canal	189	189	CT07	400	Yes	S 9th St	
Burnham Canal	190	190	CT07	400A	Yes	S 9th St	
Burnham Canal	191	191	CT07	399	Yes	S 11th St	
Burnham Canal	193	193	CT07	398	Yes	S 13th St	
Burnham Canal	194	194	CT07	396	Yes	S Muskego Ave	
Kinnickinnic River	019	85046	None	None	N/A	S 1st St at the Kinnickinnic River	MIS Overflow
Kinnickinnic River	148	148	CT08	369	Yes	E National Ave	
Kinnickinnic River	149	149	CT08	368A	Yes	S of E Walker St	
Kinnickinnic River	150	150	CT08	367	Yes	S of E Washington St	
Kinnickinnic River	151	151	CT08	346	Yes	E Greenfield Ave	
Kinnickinnic River	152	152	KK03	342	Same structure	S Kinnickinnic Ave	
Kinnickinnic River	153	153	KK03	339	Yes	S Kinnickinnic Ave	
Kinnickinnic River	154	154	KK03	341	Yes	S 1st St	
Kinnickinnic River	155	155	KK03	340	Yes	S 1st St	
Kinnickinnic River	156	156	KK03	345A	Yes	S 2nd St	
Kinnickinnic River	157	157	KK03	345/345A	Yes	W Rogers St	
Kinnickinnic River	158	158/159	KK03	343 & 344A	Yes	W Becher St	
Kinnickinnic River	159	158/159	KK03	343 & 344A	Yes	W Becher St	
Kinnickinnic River	160	160	KK04	None	Yes	E Lincoln Ave	
Kinnickinnic River	161	161	KK04	330	Same structure	W Lincoln Ave	
Kinnickinnic River	162	162	KK04	331	Same structure	W Lincoln Ave	
Kinnickinnic River	163	163	KK02	328	Yes	S Chase Ave	
Kinnickinnic River	164	164	KK02	327	Yes	S Chase Ave	
Kinnickinnic River	165	165	KK01	325	Same structure	W Cleveland Ave	
Kinnickinnic River	166	166	KK01	325	Same structure	W Cleveland Ave	

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Receiving water (of combined sewer overflow)	Combined Sewer Outfall Number	Diversion Structure Number	ISS Drop Shaft	Intercepting Structure Number	IS upstream of DS	Location	Notes
Kinnickinnic River	166A	KK1JC01	KK01	None	N/A	S 6th St at W Cleveland Ave	KK1 Junction Chamber
Kinnickinnic River	167	167	KK01	City Manhole	Yes	S 8th St	
Kinnickinnic River	168	168	KK01	City Manhole	Yes	S 14th St	
Kinnickinnic River	169	169	KK01	City Manhole	Yes	S 27th St	
Lake Michigan	195	195	LMN	338	Same structure	E Bay St	
Lake Michigan	196	196	LMS	335, 336 & 337	Yes	E Russell Ave	
Lincoln Creek	145	145	NS12	500	Yes	N 35th St & W Congress St	
Lincoln Creek	197	BS0502	None	None	N/A	Hampton Ave at 32nd St	
Menomonee River	010	85047	None	None	N/A	W Canal St at 8th St	MIS Overflow
Menomonee River	170	170	CT08	404	Yes	S 2nd St	
Menomonee River	171	171	CT07	390	Same structure	N Ember La	
Menomonee River	172	172	CT07	197B & 197C	Yes	N Ember La	
Menomonee River	173	173/174	CT07	388	Yes	N 15th St	
Menomonee River	174	173/174	CT07	388	Yes	N 15th St	
Menomonee River	174A	174	CT07	384B	Yes	N 16th St & Pittsburg St	Abandoned
Menomonee River	175	175	CT07	387	Yes	N 17th St	
Menomonee River	176	176	CT5/6	380	Yes	N 25th St	
Menomonee River	177	177	CT5/6	380	Yes	N 26th St	
Menomonee River	177A	CT5/6	CT5/6	None	N/A	123 N 25th St (CT5,6)	
Menomonee River	178	178	CT5/6	358 & 359A	Yes	S 27th St	
Menomonee River	179	179	CT5/6	359A	Yes	S 27th St	178 and 179 are one outfall
Menomonee River	180	180	CT5/6	381 & 357	No	S 35th St	
Menomonee River	181	181	CT3/4	377	Same structure	W Wisconsin Ave	
Menomonee River	182	182	CT3/4	193A, 372 & 372A	Yes	N 43rd St	
Menomonee River	182A	C182A01	CT3/4	None	Yes	4251 W State St (CT3,4)	54" flow balance

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							overflow
Menomonee River	183	183	CT3/4	183	Yes	N 45th St	IS183 goes to City sanitary
Menomonee River	184	DG08-03	CT02	188	Yes	N Hawley Rd	
Menomonee River	185	185	CT07	386	Yes	N 9th St (Ext'd)	
Milwaukee River	015	85043	None	None	N/A	N Marshall St at the Milwaukee River	MIS Overflow
Milwaukee River	016	85042	None	None	N/A	W Vliet St ext'd, east of N 3rd St	MIS Overflow
Milwaukee River	017	105/017	NS08	None	N/A	N Van Buren St at E Brady St	MIS Overflow
Milwaukee River	018	BS0701	None	None	N/A	S Water St at E Bruce St	Duplicate of 143
Milwaukee River	051	51	NS07	208	Yes	Point 300' west of N Humboldt Ave & N Weil ext'd	
Milwaukee River	089	NS11JC01	NS11	134	Yes	E Capitol Dr	
Milwaukee River	090	90	NS04	135A	Yes	E Keefe Ave	
Milwaukee River	091	91	NS04	73 & 74A	Yes	E Edgewood Ave	
Milwaukee River	092	92	NS05	135	Yes	E Auer Ave	
Milwaukee River	094	94	NS05	Unknown	Yes	E Burleigh St	
Milwaukee River	096	NS5A02	NS05	None	Yes	E Locust St	
Milwaukee River	097	97	NS06	136	Yes	E Park Pl	
Milwaukee River	098	98	NS06	228	Yes	E Bradford Ave	
Milwaukee River	099	99	NS07	141 & 228A	Yes	E Boylston St	
Milwaukee River	101	101	NS07	230	Yes	N Pulaski St	
Milwaukee River	102	102	NS07	207	Yes	N Humboldt Ave	
Milwaukee River	103	103	NS07	231	Yes	N Marshall St	
Milwaukee River	103A	NS7	NS07	None	N/A	1944 N Commerce St	NS07 Junction Chamber
Milwaukee River	104	104	NS07	199/200A	Yes	N Holton St	
Milwaukee River	105	105/017	NS08	232	No	E Brady St	

### Constructed Combined Sewer Overflow Locations

Receiving water (of combined sewer overflow)	Combined Sewer Outfall Number	Diversion Structure Number	ISS Drop Shaft	Intercepting Structure Number	IS upstream of DS	Location	Notes
Milwaukee River	106	106	NS08	209	Yes	N of E Pleasant St	
Milwaukee River	107	107	NS08	210	Yes	E Walnut St	
Milwaukee River	108	108	NS08	233	Yes	E Pleasant St	
Milwaukee River	108A	NS8B01	NS08	None	N/A	E Pleasant St at N Water St	96" flow balance overflow
Milwaukee River	109	109	NS08	211	Same structure	N of W Cherry St	
Milwaukee River	110	110	NS08	201 & 201A	Yes	W Cherry St	
Milwaukee River	110A	110A	NS08	212	Same structure	W Cherry St	Seems to be a duplicate of 110
Milwaukee River	111	111	NS08	234	Yes	E Lyon St	
Milwaukee River	112	112	NS09	235	Same structure	E Ogden Ave	
Milwaukee River	113	113	NS09	213	Yes	W McKinley Ave	
Milwaukee River	113A	113A	NS09	214A	Yes	W Juneau Ave (Park West Freeway)	
Milwaukee River	114	114	NS09	215	No	W Juneau Ave	
Milwaukee River	115	115	NS09	216	No	W Highland Ave	
Milwaukee River	116	116	NS09	237	No	E Highland Ave	
Milwaukee River	117	117	NS09	217	No	W State St	
Milwaukee River	118	118	NS09	238A	No	E State St	
Milwaukee River	119	119	NS09	218	Yes	W Kilbourn Ave	
Milwaukee River	120	120N/120S	NS09	239, 239A & 239B	No, Same, Same	E Kilbourn Ave	
Milwaukee River	121	121	NS09	219 & 219A	Yes	N of W Wells St	
Milwaukee River	122	122	NS09	220	No	W Wells St	
Milwaukee River	123	123	NS09	240	No	E Wells St	
Milwaukee River	124	124	NS09	221	Yes	N of W Wisconsin Ave	
Milwaukee River	125	125	NS09	222	No	W Wisconsin Ave	
Milwaukee River	126	126	NS10	241	Same structure	E Wisconsin Ave	

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Receiving water (of combined sewer overflow)	Combined Sewer Outfall Number	Diversion Structure Number	ISS Drop Shaft	Intercepting Structure Number	IS upstream of DS	Location	Notes
Milwaukee River	127	127	NS10	223	No	W Michigan St	
Milwaukee River	128	128	NS10	242	No	E Michigan St	
Milwaukee River	129	129	NS10	224	Yes	N of W Clybourn St	
Milwaukee River	130	130	NS10	225	Yes	W Clybourn St	
Milwaukee River	131	131	NS10	243	No	E Clybourn St	
Milwaukee River	133	NS10F05	NS10	227	Yes	W St. Paul Ave	
Milwaukee River	134	134	NS10	244	No	E St. Paul Ave	
Milwaukee River	135	135	NS10	245	Yes	E Buffalo St	
Milwaukee River	136	136	NS10	246	Same structure	E Chicago St	
Milwaukee River	137	137	CT08	405	Same structure	S 1st Pl	
Milwaukee River	139	139	CT08	406	Yes	E Pittsburgh Ave	
Milwaukee River	140	140	NS10	247	Yes	N Broadway	
Milwaukee River	141	141	CT08	403 & 403A	Yes	E Florida St	
Milwaukee River	142	142	NS10	248A	Yes	E Polk St	
Milwaukee River	143	143	CT08	370	Same structure	E Bruce St	
Milwaukee River	144	144	NS08	234A	Yes	E Lyon St	
Milwaukee River	146	146	NS07	142A	Yes	N Arlington Pl	
Milwaukee River	147	147	NS09	236	No	E Juneau Ave	
South Menomonee Canal	061	EWWE	None	None	N/A	Emergency Wastewater Exit Facility (EWWE)	Emergency Wastewater Exit
South Menomonee Canal	187	187	CT08	401 & 402	Yes	S 4th St	
South Menomonee Canal	188	188	CT08	384	Yes	S 6th St	

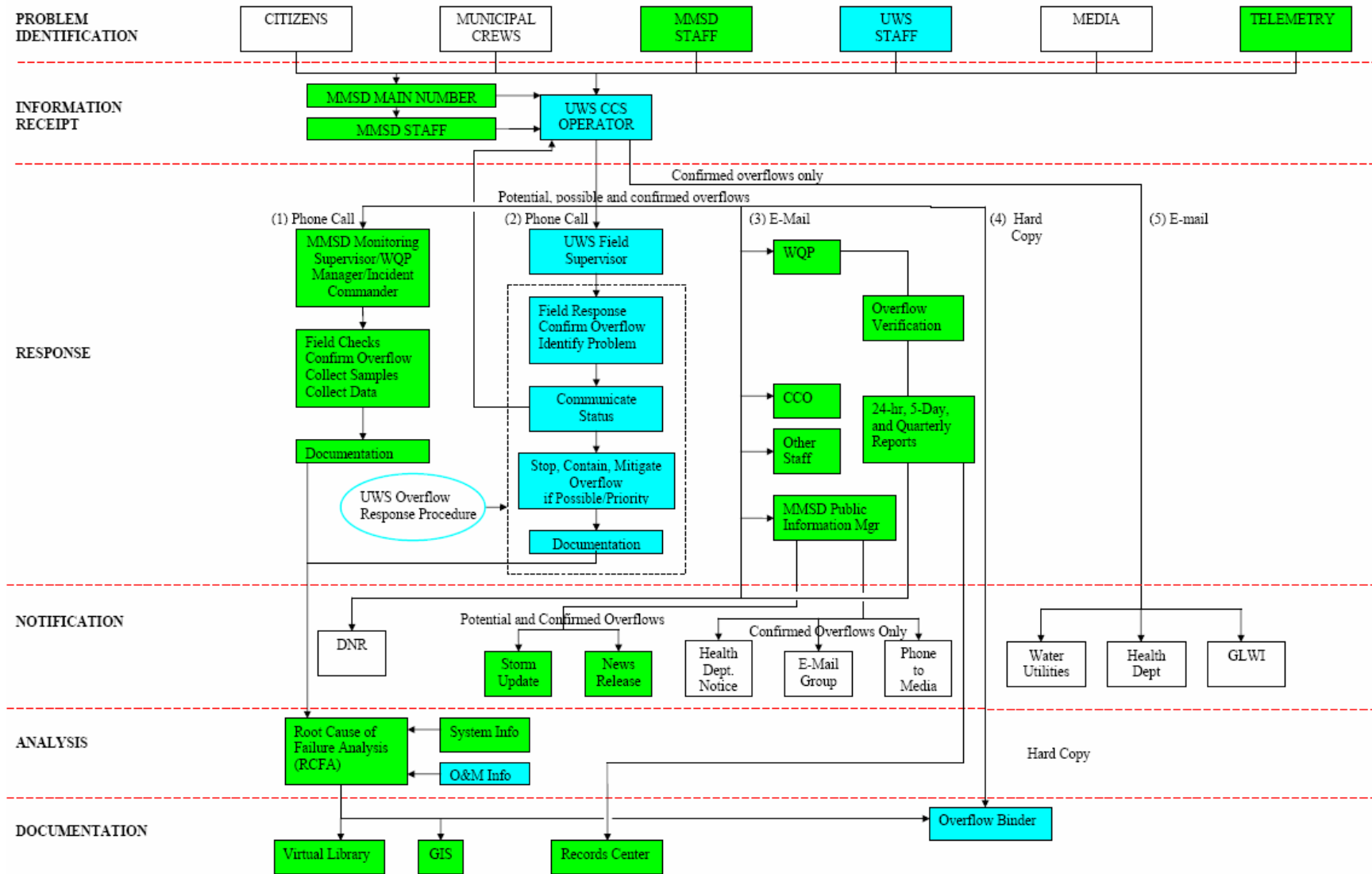
## Satellite System Phone Number List

<b>Municipality</b>	<b>Business Hours</b>	<b>After hours / weekends</b>
Bayside	414-351-8800	414-351-8800
Brookfield	262-782-0199	262-782-0199
Brown Deer	414-357-0120	414-371-2900
Butler	262-783-2525	262-783-2525
Caledonia	262-835-7765	262-835-4423
Cudahy	414-769-2216	414-769-2260
Elm Grove	262-782-6700	262-786-4141
Fox Point	414-351-8900	414-351-8914
Franklin	414-421-2613	414-425-2522
Germantown	262-250-4721	262-253-7780
Glendale	414-228-1710	414-228-1753
Greendale	414-423-2133	414-423-2121
Greenfield	414-761-5374	414-761-5300
Hales Corners	414-529-6161	414-529-6140
Menomonee Falls	262-532-4700	262-532-8899
Mequon	262-236-2913	262-236-2913
Milwaukee	414-286-8282	414-286-8282
Muskego	262-679-4128	262-679-4130
New Berlin	262-786-7086	262-782-6640
Oak Creek	414-768-7060	414-768-7060
River Hills	414-352-0080	414-247-2300
St. Francis	414-481-2300	414-481-2232
Shorewood	414-847-2650	414-847-2610
Thiensville	262-242-3720	262-242-2100
Wauwatosa	414-471-8422	414-471-8422
West Allis	414-302-8800	414-302-8000
West Milwaukee	414-645-6238	414-645-2151
Whitefish Bay	414-962-6690	414-962-6690


## District Telephone Operator Guide for Customer Inquiries

<b>Situation</b>	<b>Urgency</b>	<b>Direct to</b>	<b>Phone number</b>
Water in basement	Critical	Local DPW	Numbers on DPW list
Sewage overflow	Critical	United Water Services	272-5200
Spill of a hazardous substance into the sewer system	Critical	United Water Services	272-5200
Clogged MIS or structure	Critical	United Water Services	272-5200
Illegal dumping into a sewer	Urgent	United Water Services	272-5200
Illegal dumping into catch basin	Urgent	United Water Services	272-5200
Contractor hit District facility	Urgent	Debra Jensen (District)	225-2143
Manhole cover missing	Urgent	United Water Services	272-5200
Blockage in the river/Municipal service request regarding Watercourse Drainage Systems	Non-emergency	Paul Schlecht (District)	225-2131
Municipal field service question	Non-emergency	Bob Rebitski (District)	225-2114
Municipal request regarding sewer system	Non-emergency	Debra Jensen (District)	225-2143
How much water is in the deep tunnel?	Non-emergency	District Public web site	www.mmsd.com – click on storm update
How much rainfall have we received	Non-emergency	District Public web site	www.mmsd.com – click on storm update
Odor complaint	Non-emergency	Bob Rebitski (District)	225-2114
Maintenance of an District facility (mowing, snowplowing, debris)	Non-emergency	Bob Rebitski (District)	225-2114

### District Overflow Response Plan Graphical Representation



## UWS CCS Overflows/Bypasses Notice Form

 <span style="float: right; font-weight: bold; font-size: 1.2em;">CCS Overflows/Bypasses</span>	
<p><b>Date of Overflow Alarm:</b> <u>4/12/06</u>    <b>Time of Alarm:</b> <u>01:26</u>    <b>Record #:</b> <u>2006-</u></p> <p><b>Operator's Name:</b> <u>Pat Kober</u></p>	
<p><input checked="" type="checkbox"/> <b>Possible Overflow/Bypass</b>  <i>E-MAIL TO: Milw CCS Alarm</i>  <b>Members:</b>                  John Cheslik                  Donna Dirkman                  Dave Dunning/Mark Eigner                  Jim Fratrick (DNR)                  Bill Graffin                  John Jankowski                  Dan Landis                  Jeff MacDonald                  Sharon Mertens                  Milwaukee Shift Supervisors                  Tom Petri/Mary Singer                  Bob Rebitski                  Mike Roddy                  Jeff Schilling                  Chris Schultz                  Pete Topczewski</p>	<p><input type="checkbox"/> <b>Confirmed Overflow/Bypass</b>    <input type="checkbox"/> <b>CSO Gates Close</b>  <i>E-MAIL TO: Milw Gates</i>  <b>Members:</b></p> <div style="border: 1px solid red; padding: 2px; margin-bottom: 5px;"> <p style="color: red; text-align: center; font-weight: bold;">Health Dept Notification</p>                 Paul Siedemski (Milw Health Dept)                  Mar Watson (Milw Health Dept)             </div> <div style="border: 1px solid blue; padding: 2px; margin-bottom: 5px;"> <p style="color: blue; text-align: center; font-weight: bold;">Water Utility Notification</p>                 Ken Bumbalesk (Milw Water Works)                  Lon Couillard (Milw Water Works)                  Laura Daniels (Milw Water Works)                  Dinah Gani (Milw Water Works)                  John Geyre (Milw Water Works)                  Leo Johnson (Milw Water Works)                  Carrie Johnson (Milw Water Works)                  Dan Wash (Milw Water Works)                  Frank Miller (Cudahy Water Utility)                  Roger Johnson (North Shore WPC)                  Pat Francis (Oak Creek Water Works)                  Doug Fischer (So. Milw Water Works)             </div> <div style="border: 1px solid red; padding: 2px;"> <p style="color: red; text-align: center; font-weight: bold;">WDNR Notification</p>                 Jim Fratrick (DNR)                  Steve                  Dr. Sandra McLellan (DNR)             </div> <p style="margin-left: 20px;">                 John Cheslik                  Donna Dirkman                  Dave Dunning                  Mark Eigner                  Bill Graffin                  John Jankowski                  Dan Landis                  Jeff MacDonald                  Sharon Mertens                  Milw Shift Supvrs                  Tom Petri                  Bob Rebitski                  Mike Roddy                  Jeff Schilling                  Chris Schultz                  Mary Singer                  Pete Topczewski             </p>
<p><input type="checkbox"/> BS0602 KK and St. Francis</p> <p><input type="checkbox"/> BS0507 46<sup>th</sup> and State</p> <p><input type="checkbox"/> BS0401 Honey Creek and Wisconsin</p> <p><input type="checkbox"/> BS0701 Bruce and Water</p> <p><input checked="" type="checkbox"/> DC0103 6<sup>th</sup> and Oklahoma East</p> <p><input type="checkbox"/> BS0302 106<sup>th</sup> &amp; Fisher</p> <p><input type="checkbox"/> BS0303 74<sup>th</sup> and Oklahoma</p> <p><input type="checkbox"/> BS0501 Richards and Congress</p> <p><input type="checkbox"/> BS0503 35<sup>th</sup> and Roosevelt</p> <p><input type="checkbox"/> BS0505 27<sup>th</sup> and Villard</p> <p><input type="checkbox"/> BS0506 Range Line &amp; Milwaukee River</p> <p><input type="checkbox"/> BS0601 35<sup>th</sup> and Manitoba</p> <p><input type="checkbox"/> PS0402 Lake Dr. and Ravine</p> <p><input type="checkbox"/> DC0402 59<sup>th</sup> &amp; Trenton</p> <p><input type="checkbox"/> NS03 Pillsbury Silos</p>	<p><input type="checkbox"/> CT02 Hawley Road and State Street</p> <p><input type="checkbox"/> CT0304 44<sup>th</sup> and Wells</p> <p><input type="checkbox"/> CT0506 123 N. 25<sup>th</sup> Street</p> <p><input type="checkbox"/> CT07 16<sup>th</sup> and Canal</p> <p><input type="checkbox"/> CT08 3<sup>rd</sup> and Seeboth</p> <p><input type="checkbox"/> NS04 Cambridge and Providence</p> <p><input type="checkbox"/> NS05 Burleigh and Milwaukee River</p> <p><input type="checkbox"/> NS06 Park Place &amp; Milwaukee River</p> <p><input type="checkbox"/> NS07 Commerce and Booth</p> <p><input type="checkbox"/> NS08 Commerce and Walnut</p> <p><input type="checkbox"/> NS09 3<sup>rd</sup> and Juneau</p> <p><input type="checkbox"/> NS10 St. Paul and Water Street</p> <p><input type="checkbox"/> NS11 Capitol Drive and Humboldt</p> <p><input type="checkbox"/> NS12 31<sup>st</sup> and Capitol Drive</p> <p><input type="checkbox"/> KK01 6<sup>th</sup> and Cleveland</p> <p><input type="checkbox"/> KK02 1<sup>st</sup> and Chase</p> <p><input type="checkbox"/> KK03 4<sup>th</sup> and Becher</p> <p><input type="checkbox"/> KK04 1<sup>st</sup> and Lincoln</p> <p><input type="checkbox"/> LMS Lincoln Memorial Drive &amp; Russel</p> <p><input type="checkbox"/> LMN 2211 S. Bay</p> <p><input type="checkbox"/> BS0502 32<sup>nd</sup> and Hampton</p> <p><input type="checkbox"/> BS0801 2<sup>nd</sup> and Seeboth(EWWE)</p>
<p><b>INFORMATION UPDATED:</b> 7/7/2006 11:14 AM</p> <p><b>COMMENTS:</b></p> <div style="border: 1px solid black; padding: 5px;"> <p>Open limit switch malfunctioning causing a false bypass message. The gate never came off the closed Limit switch</p> </div>	

**District Procedure MON-SPVS-070**

**MILWAUKEE METROPOLITAN SEWERAGE DISTRICT  
Systems Monitoring Procedures**

**Overflow/Bypass and In-plant Diversion Notification Procedure**

<b>Procedure Number</b>	MON-SPVS-070	<b>Effective Date</b>	June 23, 2006
<b>PSW</b>	PSW	<b>Initial release</b>	Initial release
<b>Procedure</b>	The tunnel operations are governed by a number of regulatory and public notification and investigation requirements. This procedure summarizes standard notification/documentation requirements.		
	UWS Console Operator Monitoring Supervisor UWS Field Supervisor		

<b>Attachment A</b>	<u>CCS Overflows-Bypasses Form</u>
<b>Attachment B</b>	<u>Notification Distribution Lists (UWS only)</u>

<b>Definition</b>
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<b>Background</b>
<p>Overflows or bypasses can contaminate water and need to be investigated. Also, there is a need for some companies and agencies to take protective actions in these events.</p> <p>This procedure is shared between MMSD and UWS.</p> <p><b>SAFETY</b> These notifications affect public safety and need to be done promptly, precisely and professionally.</p>

## District Procedure MON-SPVS-070

### Procedures

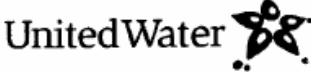
**The following events require the listed notifications by the UWS Console Operator. If there are questions or problems with any of the notifications, the on-call MMSD Monitoring Supervisor should be promptly contacted.**

- 1) Possible Combined Sewer Overflow or MIS bypass. Whenever a bypass/overflow alarm indicates a possible combined sewer overflow or MIS bypass, the following steps must occur:
  - a) Contact on-call MMSD Monitoring Supervisor immediately (unless otherwise instructed). You need to talk directly with this supervisor.
    - If you cannot talk directly with the on-call supervisor, then you must contact the alternate Monitoring Supervisor.
    - If that supervisor is not available, you must contact the Water Quality Protection Manager.
  - b) Contact on-call United Water Field Supervisor
  - c) Complete and distribute a “CCS Overflows-Bypasses” form (see *Attachment A*).  
*Note: In the comment field, insert any pertinent information.*
    - Save the document on the shared drive, under Operations/CCS Operators Logs/(year), using the current date in the document name – *CCS overflows-bypasses 02-02-06.doc*.
    - E-mail the “CCS Overflows-Bypasses” document as an attachment to the “Milwaukee CCS Alarm” distribution list (see *Attachment B*).
    - Make a hardcopy and place it in the ‘Overflows’ binder.
  
- 2) CSO Gate Closings
  - a) Contact the on-call MMSD Monitoring Supervisor.
  - b) Contact the on-call Field Supervisor.
  
- 3) Confirmed Overflow/Bypass  
Whenever confirmation of a bypass or overflow is received from the MMSD management, the appropriate notifications and documentation must be distributed. Even if there has been prior notification of a possible bypass or overflow, a second, updated form must be distributed using the following procedure.
  - a) Contact the on-call MMSD Monitoring Supervisor (unless this is the source of the confirmation).
  - b) Contact the on-call United Water Field Supervisor.
  - c) Complete and distribute a “CCS Overflows-Bypasses” form. *Note in the comment field the source of the confirmation.*
    - Save the document on the shared drive, under Operations/CCS Operators Logs/(year), using the date in the document name – *CCS overflows-bypasses 02-02-06.doc*.
    - E-mail the “CCS Overflows-Bypasses” document as an attachment to the “Milwaukee Gates” distribution list.

## District Procedure MON-SPVS-070

- **Make a hardcopy and place it in the "Overflows" binder.**

# UWS Call Tracking Form

	<h2 style="margin: 0;">Request For Assistance Form</h2>																				
<b>Work Request #</b> _____																					
Name of Caller <input style="width: 100%;" type="text" value="Kurt"/> Company or Agency <input style="width: 100%;" type="text" value="WeEnergies"/> Telephone Number <input style="width: 100%;" type="text" value="221-3831"/> Address or Major Intersection <input style="width: 100%;" type="text" value="116&lt;sup&gt;th&lt;/sup&gt; &amp; Greenfield"/> City <input style="width: 100%;" type="text" value="Milwaukee"/>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">Date</td> <td style="width: 25%;">Time of Call</td> <td style="width: 50%;">Call Taken By</td> </tr> <tr> <td>3-08-07</td> <td>13:15</td> <td>Mark Teske</td> </tr> </table> <p style="margin-top: 10px;">Please check your location →</p> <table style="margin-left: 20px;"> <tr> <td><input checked="" type="checkbox"/> Jones Island</td> </tr> <tr> <td><input type="checkbox"/> South Shore</td> </tr> <tr> <td><input type="checkbox"/> 13<sup>th</sup> &amp; College</td> </tr> <tr> <td><input type="checkbox"/> Field Maintenance</td> </tr> </table>	Date	Time of Call	Call Taken By	3-08-07	13:15	Mark Teske	<input checked="" type="checkbox"/> Jones Island	<input type="checkbox"/> South Shore	<input type="checkbox"/> 13 <sup>th</sup> & College	<input type="checkbox"/> Field Maintenance										
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<input type="checkbox"/> Field Maintenance																					
<p style="font-size: small;">Please fill in the information concerning the Type of call received below:</p>																					
<b>Spills, Chemical, Petroleum, Illegal Dumping</b>																					
Call: <input type="checkbox"/> MMSD Industrial Waste Pager 990-9347(Chris) or 990-9957(Andy) <input type="checkbox"/> United Water Safety Dept Cell Phone 651-0339 <input type="checkbox"/> Field Operations on call supervisor (see current list) <input type="checkbox"/> Shift Supervisor (both plants) 747-3836																					
<b>SPILLS</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Type of Spill</th> <th style="width: 15%;">Date of Spill</th> <th style="width: 15%;">Time of Spill</th> <th style="width: 20%;">Who Spilled</th> <th style="width: 15%;">Spilled to:</th> </tr> </thead> <tbody> <tr> <td> <input checked="" type="checkbox"/> General PCB  <input type="checkbox"/> Chemical  <input type="checkbox"/> Petroleum  <input type="checkbox"/> Illegal Dumping                             </td> <td>One month ago</td> <td></td> <td>WeEnergies</td> <td> <input type="checkbox"/> Sanitary Sewer  <input type="checkbox"/> Storm Sewer  <input type="checkbox"/> Waterway  <input type="checkbox"/> Other                             </td> </tr> <tr> <td colspan="3">Chemical Description</td> <td>Volume or Weight</td> <td>Duration</td> </tr> <tr> <td colspan="3"></td> <td>28 gal.</td> <td></td> </tr> </tbody> </table>	Type of Spill	Date of Spill	Time of Spill	Who Spilled	Spilled to:	<input checked="" type="checkbox"/> General PCB <input type="checkbox"/> Chemical <input type="checkbox"/> Petroleum <input type="checkbox"/> Illegal Dumping	One month ago		WeEnergies	<input type="checkbox"/> Sanitary Sewer <input type="checkbox"/> Storm Sewer <input type="checkbox"/> Waterway <input type="checkbox"/> Other	Chemical Description			Volume or Weight	Duration				28 gal.	
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<b>OTHER</b>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 25%;">                     Construction Related  <input type="checkbox"/> Construction Site Problem  <input type="checkbox"/> Manhole Lid Problem  <input type="checkbox"/> Traffic Barricade                 </td> <td style="width: 25%;">                     Injury/Damage/Security  <input type="checkbox"/> Serious Injury Reported  <input type="checkbox"/> Property Damage  <input type="checkbox"/> Security Issue                 </td> <td style="width: 25%;">                     Water Course Problems  <input type="checkbox"/> Water course blockage  <input type="checkbox"/> Water course graffiti  <input type="checkbox"/> Other                 </td> <td style="width: 25%;">                     Water Reported  <input type="checkbox"/> Water in basement  <input type="checkbox"/> Water in Street                 </td> </tr> <tr> <td>                     Odor or Noise  <input type="checkbox"/> Odor Reported  <input type="checkbox"/> Noise Problem                 </td> <td>                     Employee Behavior  <input type="checkbox"/> Employee Behavior (Describe below)                 </td> <td colspan="2">                     Request for Information-Radio/TV/Newspaper                      Refer calls to John Cheslik (747-3706) during normal business hours.                 </td> </tr> </table>	Construction Related <input type="checkbox"/> Construction Site Problem <input type="checkbox"/> Manhole Lid Problem <input type="checkbox"/> Traffic Barricade	Injury/Damage/Security <input type="checkbox"/> Serious Injury Reported <input type="checkbox"/> Property Damage <input type="checkbox"/> Security Issue	Water Course Problems <input type="checkbox"/> Water course blockage <input type="checkbox"/> Water course graffiti <input type="checkbox"/> Other	Water Reported <input type="checkbox"/> Water in basement <input type="checkbox"/> Water in Street	Odor or Noise <input type="checkbox"/> Odor Reported <input type="checkbox"/> Noise Problem	Employee Behavior <input type="checkbox"/> Employee Behavior (Describe below)	Request for Information-Radio/TV/Newspaper Refer calls to John Cheslik (747-3706) during normal business hours.													
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<b>Return this form to Debbie Guzlecki.</b>																					

## District Procedure MON-SPVS-060

### MILWAUKEE METROPOLITAN SEWERAGE DISTRICT Field Monitoring Procedures

#### ***Wet Weather Procedure***

<b>Procedure Number:</b>	MON-SPVS-060	<b>Effective Date:</b>	May 11, 2007
<b>Prepared by:</b>	PSW	<b>Rev. History:</b>	September 8, 2006 January 27, 2005
<b>Procedure Description:</b>	This procedure describes which monitoring activities must be assigned during various wet weather events.		
<b>Procedure Responsibility:</b>	Monitoring Supervisor		
<b>Procedure Purpose:</b>	To ensure the proper wet weather activities are performed by Monitoring staff.		

<b>Attachments</b>	
Attachment A	Wet Weather Notification Protocols
Attachment B	SSO Verification Checklist
Attachment C	Contact Phone Number List
Attachment D	ISS Groundwater Monitoring Sites

<b>Definitions</b>
•

<b>Background</b>
<p>The Monitoring Department must perform special data and sampling collection activities during the following wet weather scenarios:</p> <ul style="list-style-type: none"> <li>• Storm event with at least 0.75" precipitation within a 24-hour period</li> <li>• In-plant diversion at JI (blending)</li> <li>• 275 million gallons or greater volume in ISS (deep tunnel)</li> <li>• 40 million gallons or greater volume in Northwest Side Relief Sewer (NWSRS)</li> <li>• Any precipitation-related CSO or SSO activity</li> <li>• ISS overflow event</li> </ul> <p>In addition to the above scenarios, the Monitoring Supervisor should schedule stormwater sampling as appropriate based on a storm's precipitation amount/intensity.</p> <p>This procedure outlines the data collection and sampling activities that must be assigned to Monitoring crews during each of these wet weather scenarios.</p>

<b>Procedures</b>
<p>Assign the following tasks to Monitoring staff as necessary.</p> <p><b><i>Storm Event Monitoring Requirements</i></b> Assign the following tasks when at least 0.75" precipitation falls within a 24-hour period:</p>

## District Procedure MON-SPVS-060

1. Regulatory SLI route.
2. Regulatory flow monitoring routes (north and south) Note – The Regulatory SLI route is contained within the north and south Regulatory flow monitoring routes.
3. Other SLI routes may be read as well, depending on rain intensity. Systems Monitoring Department will advise.
4. Wet Weather/DOJ flow monitoring route.

If readings indicate that there may have been CSO or SSO activity, then notify the appropriate personnel as outlined in the Wet Weather Notification Protocols (*Attachment A*).

MON-SPEC-050, Conducting SLI Readings contains instructions for field crews on how to conduct SLI readings.

### ***In-Plant Diversion at Jones Island (Blending) Sampling Requirements***

Assign the following sampling whenever United Water Services notifies you of in-plant diversion (blending) at Jones Island:

1. WPDES permit-regulated sampling for *e. Coli*
2. Milwaukee County Health Department samples (when requested)
3. Wisconsin State Lab of Hygiene samples (when requested)
4. Other special sampling projects (such as WERF Blending Study) as necessary

Refer to MON-SAMP-200, In-Plant Diversion Sampling for specific details.

In addition, follow the notification protocol as outlined in *Attachment A*.

### ***ISS Volume 275 Million Gallons or Greater Monitoring/Sampling Requirements***

**Note: - This is not a WPDES permit-required activity; it is done per the request of the Water Resources Coordinator.**

Assign the following activities whenever ISS volume is 275 million gallons or greater:

1. Download all piezometer and datalogger level data and take level measurements at all standpipes as soon as possible. (Note - This may take several days.) No sampling is required unless requested by the Water Resources Coordinator.)
2. Refer to MON-GW-050, Collecting VWP Measurements and MON-GW-030, Collecting Standpipe Piezometer Measurements for specific details).

### ***NWSRS Volume 40 Million Gallons or Greater Monitoring Requirements***

**Note: - This is not a WPDES permit-required activity; it is done per the request of the Water Resources Coordinator.**

Assign the following activity whenever NWSRS volume is 40 million gallons or greater:

1. Download level data from the (3) high-priority data logger wells

### ***Precipitation-Related CSO or SSO Activity Monitoring Requirements***

Assign the following sampling whenever there is any full scale precipitation-related CSO or SSO activity:

1. Collect readings on all SLI routes.
2. Collect ISS samples from sites where bypassing has occurred.
3. Check special SSO samplers and collect samples if necessary.
4. Download data from all regulatory (north & south) flow monitoring routes.
5. Assign Wet Weather/DOJ flow monitoring route after the completion of the regulatory north and south flow monitoring routes.
6. Sample the (10) high-priority ISS groundwater wells (see Table A below) as soon as possible after the ISS has been pumped out to a volume of 50 million gallons or less.
7. Sample the (3) high-priority NWSRS groundwater wells (see Table B below) after the ISS has been pumped out to a volume of 50 million gallons or less.

## District Procedure MON-SPVS-060

**TABLE A**

**Ten High Priority, Data Groundwater Wells (Purge And Sample) Wells To Be Sampled**

*(see MON-GW-010, Collecting Groundwater Well Samples for specific details)*

Well	Location
N04 (NS-MW-04)	N. Commerce St., 1200' NE of Holton
C04 (CT-MW-04)	Emmber Lane, SW of Canal St.
C26 (CT-MW-26)	Jones Island (NEW)
N07 (NS-MW-07)	Humane Society
N10 (NS-MW-10)	22 <sup>nd</sup> and Hampton
K01 (KK-MW-01)	E. Greenfield
C03 (CT-MW-03)	7 <sup>th</sup> and Canal
C05 (CT-MW-05)	25 <sup>th</sup> and Canal
C10 (CT-MW-10)	29 <sup>th</sup> and Greeves
C07 (CT-MW-07)	45 <sup>th</sup> and Wells

**TABLE B**

**Three High Priority Groundwater Wells To Be Sampled**

*(see MON-GW-010, Collecting Groundwater Well Samples for specific details)*

Well	Location
G-10 (GM-IR-10)	107 <sup>th</sup> and Sheridan
G-11 (GM-IR-11)	Hwy. 100 and Courtland extended
G-12 (GM-IR-12)	Bluemound Country Club

For a possible SSO, perform the activities outlined in the SSO Verification Checklist (*Attachment B*). If an SSO or CSO is confirmed, follow the notification protocol as outlined in *Attachment A*.

### ***ISS Overfill Event***

Confirmation of an ISS overfill event constitutes additional monitoring of groundwater standpipes, piezometers, dataloggers, and well. Confirmation of an ISS overfill event will be made by the Systems Monitoring Supervisor, Water Resources Coordinator, or Water Quality Team Protection Manager. Upon confirmation, assign the following:

1. Obtain level measurements at all ISS and NWSRS standpipes and piezometers.
2. Obtain a second set of level measurements at all ISS and NWSRS standpipes and piezometers a minimum of 48 hours after the completion of the first set of level measurements.
3. When the ISS is pumped below 50 million gallons and the NWSRS has been drained below 20 million gallons take level measurements and samples at all ISS and NWSRS wells.

Any additional monitoring will only be required by direction of the Water Resources Coordinator.

### ***Storm Water Sampling***

Refer to MON-SAMP-060, Collecting Storm Water Samples for details.

In addition, follow the notification protocol as outlined in *Attachment A*.

### ***River Level Indicators***

Refer to MON-SPEC-110, for details.

River level indicator routes should be read a minimum of twice per year (Spring and Fall), and as directed by the Systems Monitoring Supervisor. Extremely heavy rain increases the likelihood of needing these routes

**District Procedure MON-SPVS-060**

read.
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**Attachment A****Monitoring Department Wet Weather Event Notification Protocols**

The Monitoring on-call Supervisor is responsible for notifying the appropriate individuals after assigning the following wet weather activities.

**Storm Event Monitoring Collection**

If readings from these routes indicate that there may have been CSO or SSO activity, then the following notifications should occur:

1. Forward data to Systems Monitoring Supervisor.
2. Notify Water Quality Protection Team Manager (can also be done by Systems Monitoring Supervisor).
3. If CSO or SSO activity is verified, follow the *Precipitation-Related CSO or SSO Activity* notification protocol, below.

**In-Plant Diversion at Jones Island (Blending) Sampling**

1. Call Lab Manager or Lab On-Call Supervisor to inform them that samples will be delivered.
2. Calls Water Quality Protection Team Manager. If unable to reach WQPTM, call Public Information Manager.
3. Call Systems Monitoring Supervisor (or Water Resources Coordinator, if Supervisor is not available).
4. Call Water Resource/Aquatic Biology Supervisor.
5. Call and email Mary Ellen Breusch at Milwaukee Health Department

**Precipitation-Related Groundwater Sampling**

1. Call Water Resources Coordinator or designee.
2. Call Lab Manager or Lab On-Call Supervisor to inform them that samples will be delivered.

**Precipitation-Related CSO or SSO Activity**

1. Immediately call Water Quality Protection Team Manager or designee.
2. Call Lab Manager or Lab On-Call Supervisor to inform them that samples will be delivered.
3. Call Water Resource/Aquatic Biology Supervisor.
4. Call Systems Monitoring Supervisor (or Water Resources Coordinator, if Supervisor is not available).

**District Procedure MON-SPVS-060**

5. Upon verification of an SSO, Systems Monitoring will tell the CCS Operator to send out the *Confirmed Overflow/Bypass* notification. The CCS operator will send out the *Confirmed Overflow/Bypass* notification for CSOs upon closure of the CSO gates to the ISS.
6. Call Morgan Depas, or Sandra McClellan at the UWM-Great Lakes Water Institute.

**Stormwater Sampling**

1. *Call Lab Manager or Lab On-Call Supervisor to inform them that samples will be delivered.*
2. Call Water Resource Coordinator.
3. Call Water Resources/Aquatic Biology Supervisor (Monday – Thursday only).
4. Call Morgan Depas, or Sandra McClellan at the UWM-Great Lakes Water Institute.
5. Call Water Quality Protection Team Manager (normal business hours only).

**District Procedure MON-SPVS-060**

**Attachment B  
SSO Verification Checklist**

<b>WPDES #</b>	<b>MMSD ID #</b>	<b>Location</b>	<b>Portable Flow Meters to Download</b>	<b>SLI Readings</b>	<b>Sampler @ Location?</b>
206	MS0409	BROADMOOR		206	
			SSO207 CKB511 MI010A		
207	BS0511	N.31 <sup>st</sup> and Fairmont		207	
209	BS0514	N.27 <sup>th</sup> and Silver Spring	SSO209	209	
212	BS0509	W. Hampton and Green Bay	SSO212	212	
213	BS0508	W. Hampton and Green Bay	SSO213	213	
214	DC0509	N. Lydell and Hampton			
			SSO220 CKBS11	220 17612	
220	BS0101	S. Howell south of Grange			
			SSO221 CKBS64		
221	BS0102	S.1st and Layton		221	YES
223	BS0505	N.27 <sup>th</sup> and Villard		80021	
225	BS0601	S.35 <sup>th</sup> and Manitoba			
226	BS0503	N.35 <sup>th</sup> and Roosevelt	CK0514		YES
229	BS0507	N.46 <sup>th</sup> and State		229	
230	BS0501	Richards and Congress		230	
231	BS0506	Range Line Road			
				BS0602 Q1 (Priority A Route)	
232	BS0602	Kinnickinnic and St. Francis	M11401 M10902		
			SSO233 SPWA01		
233	BS0302	Fischer Pkwy		233	YES
			SSO234 CKBS41 C80031		
234	BS0403	Honey Creek and Portland		234	
235	BS0401	Honey Creek and Wisconsin	CKBS41		
237	BS0402	N.68 <sup>th</sup> and Menomonee River Pkwy	CKBS42	237	
242	BS0304	79th & Dickinson (State Fair Park)	SSO242	MIS 09020	

**District Procedure MON-SPVS-060**

<b>WPDES #</b>	<b>MMSD ID #</b>	<b>Location</b>	<b>Portable Flow Meters to Download</b>	<b>SLI Readings</b>	<b>Sampler @ Location?</b>
243	BS0603	S.43 <sup>rd</sup> and Lincoln	SSO243 CK0609	243	
244	BS0512	Lydell and Lancaster			
245	BS0513	Lydell and Montclair	SS0245	245	YES
247	BS0303	S.74 <sup>th</sup> and Oklahoma		K6 (Priority A Route)	
250	BS0701	Bruce & Water		250	
260	DC0103	S.6 <sup>th</sup> and Oklahoma	SSO260 CKD103	260	
262	DC0402	N.59 <sup>th</sup> and Trenton			
263	BS0404	Green Tree West AVM		PS52E	
263	BS0404	Green Tree East AVM		PS52W	
264	LOCAL	Ravine Lane	SSO264 CPS42E CPS42S	264	
010-CSO		S.8 <sup>th</sup> and Canal		CSO010	
015-CSO		Marshall and Milwaukee River	CSO015	CSO015	
016-CSO		N.3 <sup>rd</sup> and Vliet/Commerce	CSO016	CSO016	
019-CSO		S. 1ST and KK		CSO019	
197-CSO		N.32 <sup>nd</sup> and Hampton			
BS0801		Seeboth EWWE			

**District Procedure MON-SPVS-060****Attachment C****Monitoring Department Contacts / Phone Numbers**

Effective: May 1, 2007

<b>Title</b>	<b>Name</b>	<b>Work Phone</b>	<b>Home Phone</b>
Systems Monitoring Supervisor	Tom Petri	Office 225-2232 Cell 405-5590 Pager 990-9934	427-0284
Water Quality Protection Team Manager	Pete Topczewski	Office 225-2176 Cell 617-1552 Pager 990-9936	476-3177
Lab Manager	Sharon Mertens	Office 277-6384 Cell 235-1325	855-0776
Lab On-Call Supervisor	Varies	Pager 990-9304	
Water Resources Coordinator	Mary Singer	Office 225-2232 Cell 870-0114 Pager 990-9934	525-0361
Water Resource/Aquatic Biology Supervisor	Eric Waldmer	Office 277-6383 Pager 990-9301	423-8290
Public Information Officer	Bill Graffin	Office 225-2077 Cell 510-6832	423-1613
UWM-Great Lakes Water Institute	Sandra McClellan Morgan Depas	Office 382-1710 Cell 430-2228 Office 382-1747 Cell 526-7829	
Milwaukee Health Department MBRUES@milwaukee.gov	Mary Ellen Breusch	Office 286-5744 Cell 708-5163 Fax 286-5164	

## District Procedure MON-SPVS-060

### Attachment D

#### ISS Groundwater Monitoring Sites, page 1 of 2

GW ID	Station	Measurement Type*	Groundwater Location
01D	NS-MR-01D	P	N.GREEN BAY AVE.& W. STARK ST.(DEEP)
01S	NS-MR-01S	P	N.GREEN BAY AVE. & W. STARK ST.(SHALLOW)
02D	NS-MR-02D	P	N.WILSON AVE.& E. CONGRESS ST.(DEEP)
02S	NS-MR-02S	P	N.WILSON AVE.& E. CONGRESS ST.(SHALLOW)
03D	NS-MR-03D	WP	MORRIS & BEVERLY SHOREWOOD GARAGE(DEEP)
03S	NS-MR-03S	WP	MORRIS & BEVERLY SHOREWOOD GARAGE(SHALLOW)
04D	NS-MR-04D	WP	N.NEWHALL & E. PARK PL.(DEEP)
04S	NS-MR-04S	WP	N.NEWHALL & E. PARK PL.(SHALLOW)
05D	NS-MR-05D	P	KNAPP ST. & MARKET ST.(DEEP)
05S	NS-MR-05S	P	KNAPP ST. & MARKET ST.(SHALLOW)
06D	CT-MR-06D	WP	S.19th ST. & POTOWATOMI CIRCLE (DEEP)
06S	CT-MR-06S	WP	S.19th ST. & POTOWATOMI CIRCLE (SHALLOW) ABANDONED 7/11/06
07D	CT-MR-07D	P	W. WELLS ST. & N. 62ND ST.(DEEP)
07S	CT-MR-07S	P	W. WELLS ST. & N. 62ND ST.(SHALLOW)
08D	CT-MR-08D	WP	SHERMAN BLVD., S. OF W. CHAMBER ST.(DEEP)
08S	CT-MR-08S	WP	SHERMAN BLVD.,S. OF W. CHAMBERS ST.(SHALLOW)
C01	CT-MW-01	WPD	ON JONES ISLAND, BETWEEN 5TH & 7TH CLARIFIERS
C02	CT-MW-02	P	S. WATER ST. 23' SE OF W. SEEBOTH ST.
C03	CT-MW-03	WPD	40' W. OF CANAL ST. & 450' W. OF S. 6TH ST.
C04	CT-MW-04	WPD	EMBER LA., SW OF W. CANAL ST.
C05	CT-MW-05	WPD	25TH & W. CANAL ST.
C06	CT-MW-06	P	WEBCO SUBSTATION I-94 EASTBOUND APPROX 44TH ST.
C07	CT-MW-07	WPD	W. WELLS ST. & N.45TH ST.
C08	CT-MW-08	WP	W. STATE ST., 250 E. OF N. 60TH ST.
C09	CT-MW-09	WP	SE OF HARWOOD AVE. IN WAUWATOSA MUN PARKING LOT
C10	CT-MW-10	WPD	N. 29TH ST & W. GREVES ST.
C11	CT-MW-11	P	S.WATER ST., 18' SE OF W. SEEBOTH ST.
C12	CT-MW-12	P	APPROX 60' S. OF W. GREVES & N.29TH ST.
C13	CT-MW-13	P	WEPCO SUBSTATION I-94 EASTBOUND APPROX. 44TH ST.
C14	I30-25-CT	S	N. 8TH ST. & W. HINMAN ST.(ST PAUL & MARQUETTE EX
C15	I30-CT-DS	S	W. GREVES ST & W. ST PAUL AVE. DOT INSP STA
C16	C10-05-CT2	S	W. TRENTON PL. & N. HAWLEY RD.
C17	I30-17-CT	S	N. 72ND ST. & MENOMONEE RIVER N. OF STATE ST.

## District Procedure MON-SPVS-060

### Attachment D

#### ISS Groundwater Monitoring Sites, page 2 of 2

C18	135-PZ-09	S	W. WELLS ST., E. OF N.45TH PL.	STARTED 02/23/95
C19	130-15-CT1	S	N.53RD ST. & W. WELLS ST. (DOYNE PARK PARKING LOT)	STARTED 02/23/95
C20	130-15-CT2	S	N.53RD ST. & W. WELLS ST. (DOYNE PARK PARKING LOT)	STARTED 02/23/95
C22	J10-36-PZ	S	ON JONES ISLAND BEHIND ISHF BUILDING	STARTED 02/23/95
C24	AC-CT-01	S	S. WATER ST. & S.DAVIDSON ST.	STARTED 04/24/96
C25	CT-MW-25	WP	MENOMONEE RIVER PKWAY & CHARLES HART PKWY	STARTED 03/20/02
C26	CT-MW-26	WPD	ON JONES ISLAND, EAST OF WELL C01 BY CLARIFIER #1	STARTED 01/20/04
G10	GM-IR-10	WPD	107th & SHERIDAN AVE. (NWSRS)	STARTED 11/17/03
G11	GM-IR-11	WPD	HWY 100 & COURTLAND EXT'D (NWSRS)	
G12	GM-IR-12	WPD	BLUEMOUND COUNTRY CLUB (NWSRS)	
K01	KK-MW-01	WPD	EAST OF GREENFIELD AVE & GREAT LAKES R.F.	
K02	KK-MW-02	WP	W. MAPLE ST. AT S.1ST ST.	
K03	KK-MW-03	WP	30' W. OF S. 1ST ST., 48' N. OF W. LINCOLN AVE.	
K04	KK-MW-04	WP	W. ROSEDALE AVE. & 95' W. OF I-94 OVERPASS	
K05	KK-MW-05	P	E. GREENFIELD AVE. & GREAT LAKES R.F.	
K07	C44-PZ-06	S	W. BECHER ST., E. OF S. 4TH ST.	
K08	C10-07-KK	S	S. 1ST ST. BETWEEN LINCOLN AVE. & CHASE AVE.	
K09	I30-28-CT	S	KINNICKINNIC AVE. & E. MAPLE ST.	STARTED 04/24/96
K10	C-41-PZ-11	S	E. LINCOLN AVE. & WARD ST. & GREELEY ST.	STARTED 04/24/96
K11	C41-PZ-5/6	S	S. OF KK RIVER, E. OF CHASE AVE. (RR TRACKS)	STARTED 04/24/96
K12	C41-PZ-07	S	S. 1st ST., S. OF BECHER ST. (VILTER PARKING LOT)	STARTED 04/24/96
L01	LM-MW-01	WP	LINCOLN MEMORIAL DRIVE	
L02	C10-32-KK	S	E. LINCOLN AVE. & S. MOUND ST.	
N01	NS-MW-01	WP	N. 3RD ST., W. OF ST PAUL AVE.	
N02	NS-MW-02	WP	W. HIGHLAND AVE. & N. 3RD ST.	
N03	NS-MW-03	WP	E. VINE ST, W. OF N. HUBBARD ST.	
N04	NS-MW-04	WPD	N. COMMERCE ST, 1200'NE OF HOLTON VIADUCT	
N05	NS-MW-05	WP	N. OF BELLEVIEW PL., W. OF C & NW R.R.	
N06	NS-MW-06	WP	N. CAMBRIDGE AVE., S. OF E. HARDFORD AVE.	
N07	NS-MW-07	WPD	4150 N. HUMBOLDT BLVD.	
N08	NS-MW-08	WP	RIVER WOODS PARKWAY AND MILWAUKEE RIVER	
N09	NS-MW-09	WP	LINCOLN PARKWAY, 750 SW OF I-43 OVERPASS	
N10	NS-MW-10	WPD	W. HAMPTON AVE., 90'W OF N.22ND ST.	
N11	NS-MW-11	WP	3025 W. RUBY AVE. (CITY OF MILW. GARAGE PARK LOT)	
N12	PZ-NS9-DS	S	PARKING LOT AT NS9 SOUTH OF DROPSHAFT CHANNEL	
N13	I30-10-NS	S	N. COMMERCE ST. ADJACENT TO NS7	
N14	I30-07-NS	S	E. CHAMBERS & MILWAUKEE RIVER	
N15	I48-PZ-01	S	N. LYDELL AVE. & MARNE AVE.	
N16	130-02-NS1	S	N. 32ND ST. & W. HAMPTON AVE.	STARTED 02/23/95
N17	130-02-NS2	S	N. 32ND ST. & W. HAMPTON AVE.	STARTED 02/23/95
N18	I36-PZ-04	S	N. 2ND ST. & W. ST PAUL AVE.	STARTED 02/23/95

\* S = Standpipe (level measurements taken by staff using a M-scope);

WP = Monitoring well sampled for groundwater quality and the level measurements. Levels Measurements are taken using a Vibrating Wire Piezometer (VWP);

P = Level Measurements only, using VWP technology;

WPD= Monitoring well sampled for groundwater quality and level measurements are taken on a continuous basis, every 30-minutes, using VWP technology.

# District Procedure SOC-CA-01

## MILWAUKEE METROPOLITAN SEWERAGE DISTRICT Contract Administration and Compliance Procedures

### Storm Event Analysis Procedure

<b>Procedure Number:</b>	SOC-CA-01	<b>Date:</b>	April 5, 2000
<b>Procedure Category:</b>	Contract Administration	<b>Revision Date:</b>	April 25, 2000
<b>Procedure Emphasis:</b>	System Operations & Control	<b>Prepared by:</b>	PSW
<b>Procedure Description:</b>	This procedure outlines the process to be followed when analyzing Storm Event Summary reports submitted by UWS.		
<b>Procedure Responsibility:</b>	It is the responsibility of the System Operations & Control Contract Administrator to analyze the Storm Event Summary reports that are submitted by UWS.		
<b>Procedure Purpose:</b>	An analysis of each Storm Event Summary report is necessary to ensure that UWS responded properly to the storm event.		

#### REQUIRED EQUIPMENT & SUPPLIES

Item	Purpose
1. Not applicable	1. Not Applicable

#### LINKED REFERENCES

Type	Number	Description	Location
Contract Item:	Not applicable		
Attachments:	Attachment A Attachment B Attachment C	Storm Event Summary Report from UWS Operational Trend 112 Seven day precipitation graphic from OTREND 199	SOC-CA-01-A (JJ) SOC-CA-01-B (DM) SOC-CA-01-C (DM)
Schedules:			
Forms:			
Tables:			
Figures:			
Checklists:			
Diagrams:			
Contacts:			
File Code:	M154x	Field Operations Activities	
Logic Diagram:			
Other Documentation:			

#### DEFINITIONS

- **SOCCA** The System Operations & Control Contract Administrator
- **Rain Event** Any precipitation that places more that 10 million gallons into the deep tunnel
- **Storm Event** Any precipitation that results in a CSO and/or SSO
- **CSO** Combined sewerage overflow
- **SSO** Separate sewerage overflow
- **MGD** Million gallons per day

#### BACKGROUND

The SOCCA should request that UWS prepare a Storm Event Summary report any time a rain event results in a CSO and/or SSO. This report includes a summary of the rain event, including start/stop date and time of precipitation, recorded precipitation, and a summary in hourly increments of tunnel volume, influent flows and pump flows. This report is used by CCO staff to evaluate UWS's performance during rain events that result in a CSO and/or SSO.

## District Procedure SOC-CA-01

### PROCEDURE

1. It is the responsibility of the SOCCA to track all rain events. Refer to procedure *MGMT-CA-07, Rain Event Report*.
2. If a rain event results in a CSO and/or SSO, the SOCCA should contact the UWS Plant Superintendent and request a Storm Event Analysis report. This report should be submitted within three days of the CSO or SSO.
4. There are two types of reports that may be submitted by UWS:
  - If the CSO resulted from a rain event with less than 200 MGD entering the tunnel (an unusual occurrence), UWS may submit a summary report.
  - All other CSOs and SSOs require a full 5-page Storm Event Summary report (Attachment A).
5. The SOCCA must review the Storm Event Summary report to confirm that UWS responded properly to the rain event. This may include conducting operational trends – confirming that actions taken by UWS match their descriptions. The SOCCA accesses this information on the District's Collection System computer (using the MODCOMP Data Retrieval program).
6. If the SOCCA feels that UWS did not respond properly to the rain event, an Exception Report should be issued describing the SOCCA's findings. *Note: Previously these findings had been communicated verbally.*
7. If valid, the SOCCA should include the following attachments with the Exception Report:
  - Operational Trend 112 (Attachment B)
  - Seven day precipitation graphic from OTREND 199 (Attachment C)
5. The SOCCA should submit the Exception Report to the Manager of Contract Compliance for review and concurrence.
6. The Manager of Contract Compliance will submit the Exception Report to the UWS Project Manager.
8. File the report in Central Filing and the Records Center (code M154x) as instructed in procedure number *MGMT-CA-02, Contract Records Management*.

## Root Cause of Failure Analysis Review Checklist and Summary Sheet

<p><b>1. Verified Overflow/Failure/Situation</b></p> <p><input type="checkbox"/> a. Pump run times from SCADA</p> <p><input type="checkbox"/> b. Surge level indicators</p> <p><input type="checkbox"/> c. Real time metering station information</p> <p><input type="checkbox"/> d. Downloaded flow monitoring information</p> <p><input type="checkbox"/> e. Physical inspection data</p>	<p>Location _____</p> <p>Date/Time of Occurrence _____</p> <p>Volume of Overflow (if applicable) _____</p>
<p><b>2. System Review</b></p> <p><input type="checkbox"/> a. Location and tributary area</p> <p><input type="checkbox"/> b. Detailed system operations information</p> <p><input type="checkbox"/> c. Sewer capacity</p> <p><input type="checkbox"/> d. Facilities Plan flow projections</p> <p><input type="checkbox"/> e. Flow monitoring data</p> <p><input type="checkbox"/> f. Local bypassing</p> <p><input type="checkbox"/> g. Local and building connections to the MIS</p> <p><input type="checkbox"/> h. Building backups</p> <p><input type="checkbox"/> i. Site Visit</p> <p><input type="checkbox"/> j. Other system factors</p>	<p>Notes</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p><b>3. Precipitation</b></p> <p><input type="checkbox"/> a. Antecedent conditions</p> <p><input type="checkbox"/> b. Intensity</p> <p><input type="checkbox"/> c. Volume</p> <p><input type="checkbox"/> d. Snow-melt</p>	<p>Estimated Year Event</p> <p>Rainfall Total/Duration/Intensity _____</p> <p>_____</p>
<p><b>4. Operations and Maintenance</b></p> <p><input type="checkbox"/> a. Mechanical equipment</p> <p><input type="checkbox"/> b. Diversions</p> <p><input type="checkbox"/> c. Recent maintenance issues</p> <p><input type="checkbox"/> d. Recent operational issues</p> <p><input type="checkbox"/> e. Reviewed televising information</p> <p><input type="checkbox"/> f. Reviewed structure inspection information</p>	<p>Notes</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p>
<p><b>5. Ad-hoc Modeling</b></p> <p><input type="checkbox"/> a. Request made</p>	<p>Notes</p> <p>_____</p>
<p>Root cause of situation</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Possible solutions/short term actions/long term actions</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> <p>Review completed by: _____ Date: _____</p>	

## District Storm Update Web Page

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### MMSD Storm Update

[Continuous Rain Gauge Data](#)  
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This page is automatically updated. The data have not been verified and may contain errors. As data are verified, MMSD reserves the right to make corrections to values as necessary. MMSD is providing this data "as is" and the user assumes the entire risk of use of this data.

Last updated: Wednesday, April 25, 2007 3:45 PM (Updated every 5 minutes)

<b>Deep Tunnel</b>	currently storing: <span style="background-color: yellow;">5</span> million gallons
	capacity: <span style="background-color: yellow;">405</span> million gallons
<b>Northwest Side Deep Tunnel</b>	currently storing: <span style="background-color: yellow;">---</span> million gallons
	capacity: <span style="background-color: yellow;">89</span> million gallons
<b>Jones Island</b>	currently treating: <span style="background-color: yellow;">123</span> million gallons / day
	current capacity: <span style="background-color: yellow;">300</span> million gallons / day
<b>South Shore</b>	currently treating: <span style="background-color: yellow;">164</span> million gallons / day
	current capacity: <span style="background-color: yellow;">300</span> million gallons / day
<b>Diversions</b>	This section is manually updated as information is confirmed.

Overflow Information is posted here