5.0 ELIMINATION OF CSOs DURING DRY WEATHER

5.1 OVERVIEW

Overflows from the CSS add pollutants to receiving waters. The CWA’s NPDES program prohibits dry weather overflows. The fifth of the nine minimum controls described in EPA’s NMC Guidance addresses measures taken towards the elimination of CSOs during dry weather. By eliminating dry weather overflows from the CSS, the pollutant loadings in the receiving waters can be reduced. The City’s WPCP and combined sewer interceptor sewer system (including its diversion structures and/or regulators) were designed to handle dry weather flows without overflows. Therefore, most dry weather combined sewer overflows (DWOs) can be prevented through proper monitoring, operation, and maintenance of the CSS.

Overflow control is accomplished through a cycle of activities affecting the CSS. The activities include: operation, inspection, maintenance, and modification. In this Chapter the appropriate operating, inspection, and maintenance procedures presented in Chapter 1 will be referenced and the process for analyzing past DWOs will be discussed. All DWOs, if any, will be analyzed at least annually and recommendations for improvements will be developed. All appropriate actions will be taken to eliminate a re-occurrence of a DWO.

5.2 OPERATING, INSPECTING, AND MAINTAINING

DWOs originate in sewers of the CSS. Because, in the City’s experience, DWOs most frequently occur in connection with regulators, the City’s efforts to continue to eliminate DWOs focus on its diversion structures and associated regulators. Table 5-1 lists overflow discharge point permit numbers, the corresponding City structure ID #’s, and upstream regulator City structure ID #’s. Figure 5-1 shows the locations of the overflow discharge points and upstream regulators. The City has a total of 51 regulators, of which 20 are mechanical (float operated). Only 9 of these are operational currently. The regulator gates of the others have been chained open to maximize flow to the WPCP. The remaining regulators are diversion type regulators (where surcharging is diverted into another pipe). One of these regulators is controlled by a pump station where the quantity of flow sent to the WPCP for treatment is determined by the capacity of the pumps. Flows in excess of the pump capacity become overflows. Additional summary information on diversion structures and regulators can be found in Table 4-1 of Exhibit A-1.
## TABLE 5-1

July 2006

<table>
<thead>
<tr>
<th>Discharge Point</th>
<th>Discharge Point</th>
<th>Upstream Regulator</th>
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<tr>
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<td>City ID #</td>
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<td>011</td>
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<td>K11-165</td>
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<td>M06-007</td>
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<td>M10-199</td>
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Nine Minimum Controls – No. 5

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<tr>
<td>056</td>
<td>J03-313</td>
<td>J03-267</td>
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<td>057</td>
<td>P10-121</td>
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<td>Q06-034</td>
<td>Q06-036</td>
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<td>R06-031</td>
<td>R06-030</td>
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<td>061</td>
<td>R14-137</td>
<td>S18-082</td>
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<tr>
<td>062</td>
<td>R14-138</td>
<td>R18-188</td>
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<tr>
<td>064</td>
<td>S02-035</td>
<td>Q07-022</td>
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<td>Q03-011</td>
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<td>067</td>
<td>K19-077</td>
<td>K15-110</td>
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<td>068</td>
<td>N18-254</td>
<td>N18-241</td>
</tr>
<tr>
<td>080**</td>
<td>P10-001</td>
<td>P18-150</td>
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<td></td>
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<td>P18-089</td>
</tr>
<tr>
<td>081**</td>
<td>R14-032</td>
<td>S18-070</td>
</tr>
<tr>
<td></td>
<td></td>
<td>S18-071</td>
</tr>
</tbody>
</table>

* See Exhibit E-1 of this Chapter for locations of the discharge points
**assumed number, to be determined/verified upon proposed NPDES permit modification

5.2.1 Operation

The operation of the regulators is discussed in Chapter 1. Details, including construction drawings (when available), operating procedures and operating parameters concerning each regulator are kept in the City’s Planning & Design Services library in the City/County Building.

5.2.2 Inspections

Two types of inspections occur with respect to regulators. The first type is operational inspections which monitor system activities and regulator performance. Such inspections currently occur daily during on weekdays and on weekends in connection with rain events. The second type of inspections is annual structural inspections. These inspections further assess the need for repairs and replacement work.

5.2.3 Maintenance

The type of maintenance required by each regulator varies by regulator type and location. Exhibits A-1 and A-2 of Chapter 1 contain detailed maintenance procedures and schedules for each regulator in the CSS.
5.3 ANALYSIS OF PAST DWOs

5.3.1 Purpose

The purpose of analyzing past DWOs is to identify any DWO cause that can be addressed by modifying facilities or procedures.

5.3.2 Process

The steps of the DWO analysis process are:

- Gather copies of all DWO reports that have been submitted to IDEM during the period of interest
- Describe the cause of each DWO and sort the reports by cause.
- Sort the reports by DWO by time of year.
- Sort reports by location.
- Review the appropriate regulator details to identify the system components and functions.
- Identify any component that malfunctioned.
- Make recommendations to eliminate, if feasible, the cause or source of each DWO.

This process has been utilized to analyze DWOs since January 1, 1997. The report on this process for the years 1997-2004 is at Exhibit E-2. Recommendations that resulted from the report are stated within Exhibit E-3.

5.4 RECORDKEEPING

Records concerning each calendar year’s DWOs will be annually assembled as outlined above and added to Exhibit E-4.
## Nine Minimum Controls – No. 5

### DIRECTORY FOR APPENDIX E
(Items Presented in Order of Appearance in Appendix E)

<table>
<thead>
<tr>
<th>Item</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Exhibit E-1</td>
<td>DISCHARGE POINT LOCATIONS</td>
</tr>
<tr>
<td>Exhibit E-2</td>
<td>ANALYSES OF PAST DRY WEATHER OVERFLOWS</td>
</tr>
<tr>
<td>Exhibit E-3</td>
<td>RECOMMENDATIONS TO ELIMINATE OR REDUCE DWOs</td>
</tr>
<tr>
<td>Exhibit E-4</td>
<td>RECORDKEEPING</td>
</tr>
</tbody>
</table>
EXHIBIT E-1

ATTACHMENT A

Precipitation Related Combined Sewer Overflow Discharge Authorization Requirements

I. Discharge Requirements

A. The permittee is authorized to discharge from the outfalls listed below, subject to the requirements and provisions of this permit, including Attachment A.

<table>
<thead>
<tr>
<th>Overflow Point</th>
<th>Location</th>
<th>Receiving Water</th>
</tr>
</thead>
<tbody>
<tr>
<td>004</td>
<td>J02-90, 210' South of bridge at W. Jefferson &amp; St. Mary's River</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Latitude 41° 04' 16&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Longitude 85° 09' 44&quot;</td>
<td></td>
</tr>
<tr>
<td>005</td>
<td>J11-164, 210' Southeast of Manito Blvd. &amp; Indiana Village Blvd.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Latitude 41° 02' 50&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Longitude 85° 09' 59&quot;</td>
<td></td>
</tr>
<tr>
<td>007</td>
<td>K03-92, 250' Southeast of Electric Ave. &amp; Brown St.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Latitude 41° 03' 59&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Longitude 85° 09' 41&quot;</td>
<td></td>
</tr>
<tr>
<td>011</td>
<td>K06-233, 230' Southeast of Main St. &amp; Camp Allen Dr.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Latitude 41° 04' 42&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Longitude 85° 09' 17&quot;</td>
<td></td>
</tr>
<tr>
<td>012</td>
<td>K06-234, 230' Southeast of Main St. and Camp Allen Dr.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Latitude 41° 04' 42&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Longitude 85° 09' 17&quot;</td>
<td></td>
</tr>
<tr>
<td>013</td>
<td>K06-298, 80' North of Thieme Dr. &amp; Berry St.</td>
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</tr>
<tr>
<td></td>
<td>Latitude 41° 04' 37&quot;</td>
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</tr>
<tr>
<td></td>
<td>Longitude 85° 09' 22&quot;</td>
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<tr>
<td>014</td>
<td>K07-106, 60' West of Dinlen Ave. and Packard Ave.</td>
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</tr>
<tr>
<td></td>
<td>Latitude 41° 03' 19&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Longitude 85° 09' 23&quot;</td>
<td></td>
</tr>
<tr>
<td>016</td>
<td>K07-109, 280' Southwest of Broadway &amp; Kinship Ave.</td>
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</tr>
<tr>
<td></td>
<td>Latitude 41° 03' 13&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Longitude 85° 09' 25&quot;</td>
<td></td>
</tr>
<tr>
<td>017</td>
<td>K07-176, 130' Southwest of St. Mary's Pkwy &amp; Weldon Circle</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Latitude 41° 03' 29&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Longitude 85° 09' 32&quot;</td>
<td></td>
</tr>
<tr>
<td>018</td>
<td>K11-165, 150' West of Broadway &amp; Rudisill Blvd.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Latitude 41° 03' 00&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Longitude 85° 09' 28&quot;</td>
<td></td>
</tr>
<tr>
<td>019</td>
<td>K11-178, 150' West of Broadway &amp; Rudisill Blvd.</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Latitude 41° 03' 00&quot;</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Longitude 85° 09' 28&quot;</td>
<td></td>
</tr>
</tbody>
</table>
020  K15-116, 1300' West of Hartman Rd. & Westover Rd.  
Latitude 41° 02' 33"
Longitude 85° 09' 41"
Saint Mary's River

021  K19-044, 850' West of Old Mill Rd. & Fairfax Ave.  
Latitude 41° 01' 57"
Longitude 85° 09' 05"
Saint Mary's River

023  L05-103, 90° Northwest of Jackson St. & Superior St.  
Latitude 41° 04' 47"
Longitude 85° 09' 09"
Saint Mary's River

024  L05-420, 220' North of Superior St. & Fairfield Ave.  
Latitude 41° 04' 54"
Longitude 85° 08' 48"
Saint Mary's River

025  L06-421, 220' North of Superior St. & Fairfield Ave.  
Latitude 41° 04' 54"
Longitude 85° 08' 49"
Saint Mary's River

026  M10-151, 310' East of Third St. & Calhoun St.  
Latitude 41° 05' 12"
Longitude 85° 08' 28"
Saint Mary's River

027  M10-202, 200' Southeast of Third St. & Calhoun St.  
Latitude 41° 05' 11"
Longitude 85° 08' 30"
Saint Mary's River

028  M10-238, 150' East of Saint Mary's River Bridge  
& Spy Run Ave.  
Latitude 41° 05' 02"
Longitude 85° 08' 07"
Saint Mary's River

029  M10-265, 230' East of Duck St. & Barr St.  
Latitude 41° 05' 02"
Longitude 85° 08' 13"
Saint Mary's River

032  M10-306, 120' North of Clair St. & Harrison St.  
Latitude 41° 05' 01"
Longitude 85° 08' 33"
Saint Mary's River

033  M10-313, 200' Southeast of Third St. & Calhoun St.  
Latitude 41° 05' 11"
Longitude 85° 08' 30"
Saint Mary's River

036  M18-032, 520' North of State Blvd. & Westbrook Dr.  
Latitude 41° 05' 52"
Longitude 85° 08' 34"
Spy Run Creek

039  N06-022, 120' North of Hanna St. & Berry St.  
Latitude 41° 04' 50"
Longitude 85° 07' 48"
Maumee River

044  N22-93, 150' East of Dalgreen Ave & Spy Run Ave.  
Latitude 41° 06' 15"
Longitude 85° 08' 00"
Saint Joseph River

045  N22-103, 100' East of Pean St. & Spy Run Ave.  
Latitude 41° 06' 19"
Longitude 85° 07' 58"
Saint Joseph River

048  O10-252, 350' West of Edgewater & Garfield  
Latitude 41° 05' 08"
Longitude 85° 07' 54"
Maumee River
EXHIBIT E-1

050  O10-277, 100' North of Coombs St. & Herbert St.
Latitude 41° 05' 03"
Longitude 85° 07' 21"
Maumee River

051  O22-002, 120' Northwest of St. Joseph Dr. & Woodrow Ave.
Latitude 41° 06' 41"
Longitude 85° 07' 03"
Saint Joseph River

052  O22-4, 370' West of N. Anthony Blvd. & St. Joseph River Dr.
Latitude 41° 06' 43"
Longitude 85° 06' 32"
Saint Joseph River

053  O22-094, 200' East of Parnell Ave bridge &
the St. Joseph River
Latitude 41° 06' 32"
Longitude 85° 07' 20"
Saint Joseph River

054  O23-080, 240' East of Mercer Ave. & Hollis Ln.
Latitude 41° 01' 41"
Longitude 85° 07' 07"
Natural Drain #4

055  P06-192, 430' North of N. Anthony Blvd. & Wayne St.
Latitude 41° 04' 52"
Longitude 85° 06' 53"
Maumee River

056  J03-513, Brown Street Pump Station
Latitude 41° 05' 06"
Longitude 85° 06' 32"
Saint Mary's River

057  P10-121, Stormwater Liftstation Wet Well
Latitude 41° 05' 02"
Longitude 85° 06' 28"
Maumee River

058  O06-34, 390' Northwest of Edsall Ave. & Dwenger Ave.
Latitude 41° 04' 46"
Longitude 85° 06' 59"
Maumee River

060  R06-31, 670' Northeast of Greenwalt Ave. & Maumee Ave.
Latitude 41° 04' 37"
Longitude 85° 05' 39"
Unnamed Ditch to Maumee River

061  R14-137, 200' West of Lavern Ave. & State Blvd.
Latitude 41° 05' 50"
Longitude 85° 05' 40"
Baldwin Ditch

062  R14-138, 200' West of Lavern Ave. & State Blvd.
Latitude 41° 05' 50"
Longitude 85° 05' 40"
Baldwin Ditch

064  S02-35, 610' Southeast of Coliseum Blvd. S.
& New Haven Ave.
Latitude 41° 04' 16"
Longitude 85° 05' 11"
Unnamed Ditch to Maumee River

067  K19-077, 310' Southeast of Hartman Rd. & Foster Park Dr.
(Lat/Long data not available)
Saint Mary's River

068  N18-254, 54' North of Northside Dr.
& Glazer Ave. on east bank
(Lat/Long data not available)
St. Joseph River
<table>
<thead>
<tr>
<th>Point</th>
<th>Location</th>
<th>Receiving Water</th>
</tr>
</thead>
</table>
| 080   | P10-001, 250' northeast of Niagra & Pemberton  
      | Latitude 41°04'57"  
      | Longitude 85°06'44" | Maumee River |
| 081   | R14-032, 200' north and 710' west of Nevada and Laverne  
      | Latitude 41°05'37"  
      | Longitude 85°05'46" | Baldwin Ditch |
Nine Minimum Controls – No. 5

EXHIBIT E-2
Prior to 1940 when the sewage treatment plant was built, all of Fort Wayne’s sewers carried sewage directly to the city’s rivers. Most of the sewers built prior to this time were combined sewers. They carried both sewage and stormwater. When the treatment plant was built it was sized to treat a volume approximately equal to the sewage generated by the City at that time.

A system of interceptor sewers was built at the same time the sewage treatment plant was built. The purpose of the interceptors was to collect and transport sewage to the new treatment plant. The interceptors crossed or “intercepted” the existing sewers just before the existing sewers discharged into the City’s rivers.

Structures called regulators were built at these crossings. The purpose of the regulators was to regulate the flow to the treatment plant. Each regulator was adjusted so that the maximum flow from all the regulators was equal to the flow the treatment plant could treat without damaging the treatment process. These maximum flows were high enough to direct all dry weather flows to the treatment plant for treatment. These structures allowed sewage flows to discharge to the rivers only during wet weather events when the peak flows exceeded the treatment plant’s capacity.

Even today combined sewage flows will not go to the river during dry weather if the system is working as designed and built.

This infrastructure remains in place although adjustments have been made over time as the Water Pollution Control Plant’s hydraulic capacity increased in the 1960’s and 1970’s. However, beginning in the 1960’s, all new sewer construction was designed and installed as separate storm sewers and sanitary sewers.

The purpose of this study is to review past dry weather overflows (DWOs) from the CSS to categorize the causes of DWOs and identify ways to prevent or reduce the occurrences of DWOs. The study will list the location, date, cause, and actions taken to eliminate each DWO reported between 1/1/97 and 1/31/04.

1. Initial Analysis

Copies of all DWO reports were acquired from Fort Wayne’s Water Pollution Control Maintenance Department. A total of 45 DWOs were reported. The report format has evolved and the authors of the reports have changed over the years so the information available varies slightly from report to report. Copies of the report are in Appendix A.

The DWO reports were sorted by location, cause, and time of the year. The total number of incidents in each category may vary slightly because of the different information contained on each report.
The causes of overflows were grouped into 5 general categories; obstructions within the regulator, obstructions in the sewer downstream of the regulator, electrical malfunction of the regulator, mechanical malfunction of the regulator, and human error. The cause group and overflow frequencies are shown in Table 1.

**Table 1**

<table>
<thead>
<tr>
<th>Cause Group</th>
<th>Overflow Occurrences</th>
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<tbody>
<tr>
<td>Obstruction within regulator</td>
<td>19</td>
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<tr>
<td>Obstruction downstream of regulator</td>
<td>8</td>
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<tr>
<td>Regulator electrical malfunction</td>
<td>9</td>
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<tr>
<td>Regulator mechanical malfunction</td>
<td>3</td>
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<tr>
<td>Human error</td>
<td>1</td>
</tr>
<tr>
<td>Unknown</td>
<td>5</td>
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</table>

Overflows were also grouped by the time of year during which they occurred. Fifteen occurred during January, February, and March. Fifteen occurred during April, May, and June. Ten occurred during July, August, and September. And thirteen occurred during October, November, and December.

There are 50 regulators in Fort Wayne’s combined sewer system. DWOs were reported at 16 identifiable sites during the study period. Multiple occurrences were reported at 8 identifiable sites and single occurrences were reported at 8 identifiable sites. The location and DWO frequency at the location are shown in Table 2.

**Table 2**

<table>
<thead>
<tr>
<th>Regulator SIP #</th>
<th>Overflow Occurrences</th>
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<tr>
<td>K15-009</td>
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<td>P06-119</td>
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<td>L19-018</td>
<td>4</td>
</tr>
<tr>
<td>O10-311</td>
<td>4</td>
</tr>
<tr>
<td>J03-267</td>
<td>3</td>
</tr>
<tr>
<td>O22-004 (Discharge Point)</td>
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<tr>
<td>M10-150</td>
<td>2</td>
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<td>S18-082</td>
<td>1</td>
</tr>
<tr>
<td>K07-171</td>
<td>1</td>
</tr>
<tr>
<td>K06-231</td>
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<tr>
<td>O22-045</td>
<td>1</td>
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<tr>
<td>K06-285</td>
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<tr>
<td>O10-273</td>
<td>1</td>
</tr>
<tr>
<td>Unidentified</td>
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</tr>
</tbody>
</table>
2. Assessment of DWO Causes

2.1. Obstructions Within The Regulator

All the obstructions within the regulators occurred in mechanical regulators with float operated regulator gates.

These obstructions appear to have been caused by debris that had become snagged on the regulator gate assemblies or at the transition from large diameter pipe to significantly smaller openings to the regulator chamber. Often the debris was not typical sewage solids. It contained bricks, lumber, fiberglass pieces, twine, wooden spools, rags, or large quantities of paper towels.

Mechanical regulators with float operated gates should be inspected frequently to determine if there is any reduction in base dry weather flow passing through the regulator. This could be a sign of debris build up. If reduced flow is seen, the regulator should be cleaned immediately.

2.2. Obstructions Downstream of The Regulator

The causes of obstructions downstream of regulators were not any different than the causes for obstructions in a typical gravity sewer. The results of obstructions downstream of regulators often are more serious than obstructions in a typical gravity sewer because an obstruction downstream of a regulator often results in an overflow to the river where an obstruction in a typical gravity sewer just results in surcharging.

The cleaning and repair of sewer segments just downstream of regulators should be given a higher priority than the cleaning and repair of typical gravity sewers.

2.3. Electrical Malfunctions

Electrical components in a sanitary sewage environment do not have a long life expectancy. They will require frequent testing and replacement.

The power feed from the local power company turned out to be the biggest factor at the 2 locations where electrical malfunctions were identified.

2.4. Mechanical Malfunctions

Like electrical components mechanical components are subject to attack in a sanitary sewage environment and require frequent maintenance and replacement.
Redundant mechanical systems are very difficult to provide. Therefore, an alternative to frequent maintenance and replacement may be conversion to a static regulator without moving parts.

2.5. Human Error

Although this has not been a major problem in the Fort Wayne system it should be taken into consideration when developing procedures for maintenance.

3. DWO Timing

There does not seem to be a clear pattern related to time of the year.

4. DWO Sites

4.1. J11-163

Ten DWOs have been reported at this site. They began in November 2001. The last DWO was reported in May of 2003. The DWO reports indicate that there have been blockages in the section of pipe that connects the diversion area with the regulator chamber, in the downstream siphon, in a downstream manhole, and in a section of downstream gravity sewer. All these components have been cleaned and put on a regular cleaning schedule.

In 2003 a grate was installed over the orifice to the regulator chamber. The purpose was to catch debris before it got into the downstream regulator gate and siphon. Since its installation the grate has become plugged with paper towels and shop rags. The City’s industrial pretreatment group has been trying to find the source of this debris.

It is too early to determine if these actions are controlling the DWO problem at this site. Investigations are ongoing. If these actions do not satisfactorily control the overflows, a major reconstruction project may be necessary to reduce the number of DWOs that are occurring.

4.2. K15-009

Six DWOs have been reported at this site. This is one of two sites in Fort Wayne where the flow is regulated by a hydraulically operated gate connected to electronic float switches. From mid 1999 to mid 2000 this site was plagued by electrical problems that resulted in DWOs. These problems were traced to the power supplied by the local power company and seem to have been solved since there haven’t been DWOs caused by electrical malfunctions since August 2000.
4.3. P06-119

Five DWOs have been reported at this site. This is a mechanical regulator with a float operated regulator gate. All 5 DWOs were caused by debris collecting on the regulator gate and blocking the narrow passage between the diversion chamber and the regulator gate chamber. The procedures discussed in section 2.1 above should be implemented here.

4.4. L19-018

Four DWOs were reported at this site. All were reported between May and November of 1997. All were caused by bad pipe downstream of the regulator. This pipe was replaced and no DWOs have been reported since.

4.5. O10-311

Four DWOs were reported at this site. A pump station that pumps dry weather flow to the treatment plant is located at this site. If the flow exceeds what this pump station can handle it is diverted to another set of pumps that pumps the overflow into the river. There have been 3 causes of overflows at this site:

- Faulty equipment was installed during a project designed to upgrade the site’s reliability. This equipment has been replaced.
- A backup power source was run to the pump stations. There was a problem with the power supplied and the automatic switch would not work properly. The quality of electrical power has since been improved by the local power company.
- Debris such as bricks and timber is getting through the screens and damaging the sanitary pumps. No solution has been found for this problem.

4.6. J03-267

Three DWOs have occurred at this site. Two of the overflows were a result of mechanical malfunctions. A float operated mechanical regulator at this site was completely rehabilitated in 1997. The regulator gate had been chained open prior to the rehabilitation. The third overflow was caused by a contractor who was testing pumps and accidentally pumped sewage in the wet well into the river.

The regulator gate is again chained open and the pump testing procedures have been modified.

4.7. O22-004
Two DWOs have been reported at this discharge point. The first overflow probably occurred at regulator O22-139. The cause and repair were not clearly identified in the report. The second overflow probably occurred at regulator O22-001. It appears that roots had obstructed the flow in the gravity pipe downstream of the regulator. The procedures discussed in section 2.2 above should be implemented here.

4.8. K11-162

Two DWOs have been reported at this regulator. Both were caused by debris blocking the dry weather flow though the regulator. In one case a 3’ diameter wooden wire spool caused the blockage. The procedures discussed in section 2.1 above should be implemented here.

4.9. M10-150

Two DWOs, 5 years apart, have been reported at this regulator. Both were caused by debris blocking the dry weather flow though the regulator. The procedures discussed in section 2.1 above should be implemented here.

5. Summary

A little over 6 DWOs per year have been reported by Fort Wayne over the past 7 years. Where specific circumstances have been identified as the cause of DWOs the problems have been corrected. Where random conditions within the collection system have caused DWOs maintenance and inspection procedures have been modified to decrease the possibility of DWOs.

The process of preventing DWOs will have to continue as long as there are regulators in the collection system. Fort Wayne should do an analysis similar to this of any new DWOs at the end of each year.
Appendix A
Indiana Department of Environmental Management  
Office of Water Management, Dry Weather Overflow Incident Report

Instructions:  Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  
County: Allen  
Permit Number: IN0032191

Jeffrey A. Morris  
260/427-1255  
1/23/04

Individual Making Report:  
Phone Number:  
Overflow Date: 

<table>
<thead>
<tr>
<th>River/Stream</th>
<th>Overflow Not Bypass</th>
</tr>
</thead>
<tbody>
<tr>
<td>St Mary's River</td>
<td>Wastewater Treatment Plant Flow</td>
</tr>
</tbody>
</table>

1/23/04 at 11:15 am 
Dry Weather discharge observed (date/time)

1/23/04 at 4:40 pm 
Dry Weather discharge abated (date/time)

Reason for Dry Weather discharge:  
A discharge was traced upstream from outfall M10 151 to the dam chamber that is adjacent to regulator M10 150. A 14"x14" gate was obstructed with bricks and a fiberglass type material causing normal flow to be diverted to the river. An estimated 1,056,000 gallons were discharged into the St. Mary's river.

Previous Dry Weather discharges from this location in the last 12 months: 
Zero

Actions taken to mitigate, minimize, and prevent future overflows: 
Additional investigations concerning this outfall will facilitate future identification of potential blockages.

Signature: Jeffrey A. Morris  
Superintendent  
W.P.C.M. Ft. Wayne, IN 46803  
(260) 427-1255
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage, report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191
Jeffrey A. Morris  260/427-1255  1/21/04 - 1/23/04
Individual Making Report:  Phone Number:  Overflow Date:

<table>
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<tr>
<th>Date</th>
<th>Description</th>
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<tbody>
<tr>
<td>1/21/04 12:44 pm</td>
<td>Dry Weather discharge observed (date/time)</td>
</tr>
<tr>
<td>1/23/04 10:48 am</td>
<td>Dry Weather discharge abated (date/time)</td>
</tr>
</tbody>
</table>

Reason for Dry Weather discharge:
A discharge was traced down from outfall #O10 277 downstream to regulator #O10 256. Debris was found causing a blockage just upstream of the regulator (3') in the incoming pipe. Once found the blockage was removed within 2 hours. An estimated 5,520 gallons entered the Maumee River.

Previous Dry Weather discharges from this location in the last 12 months: 0

Actions taken to mitigate, minimize, and prevent future overflows:
Additional routine inspections concerning this outfall will facilitate identification of potential blockages should one occur again.

Signature: Jeffrey A. Morris
Superintendent
W.P.C.M. Ft. Wayne, IN 46803
(260) 427-1255
Report Date: 1/22/04

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8627. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP        County: Allen        Permit Number: IN0032191
Jeffrey A. Morris  260/427-1255        1/18/04
Individual Making Report:            Phone Number:            Overflow Date:

010 - 311
Maumee River        Overflow Not Bypass
River/Stream        Wastewater Treatment Plant Flow

1/18/04 at 6:30 am
Dry Weather discharge observed (date/time)

1/19/04 at 10:48 am
Dry Weather discharge abated (date/time)

Reason for Dry Weather discharge:
The second pump at the Morton Street pumping station failed to engage due to a faulty breaker. Because the second pump failed to engage, the flows were diverted to a pump rated at 20,000 gpm. On 1/18/04 the pump causing the discharge only ran for one minute. On 1/19/04 the same pump ran again for one minute. The total duration of discharge lasted only two minutes for both days at an estimated 40,000 gallons.

Previous Dry Weather discharges from this location in the last 12 months: zero

Actions taken to mitigate, minimize, and prevent future overflows:
The faulty breaker causing the second pump not to engage was replaced on 1/20/04.

Signature: Jeffrey A. Morris
Superintendent
W.P.C.M. Ft. Wayne, IN 46803
(260) 427-1255
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage, report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191

<table>
<thead>
<tr>
<th>Individual Making Report: Brian W. Miller</th>
<th>Phone Number: 260/427-1063</th>
<th>Overflow Date: 8-13-03</th>
</tr>
</thead>
</table>

| K15-116 | St. Mary's | Overflow Not Bypass |
| CSO Outfall Number | River/Stream | Wastewater Treatment Plant Flow |

8-13-03 8:47 a.m.
Dry Weather Overflow observed (date/time)

8-21-03 1:00 p.m.
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Mechanical Regulator had a debris build-up at the internal gate due to high river level and local flooding.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
Zero

Actions taken to mitigate, minimize, and prevent future overflows:
Notified WPC Plant of debris in regulator. WPC Plant took measures to remove debris from gate and will continue to do regular inspections to mechanical regulators.

Signature: [Signature]
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(260)427-1063
Report Date: 5-27-03

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191

Brian Miller  260/427-5591

Individual Making Report:  Phone Number:  Overflow Date:

P06-192  Maumee

CSO Outfall Number  Overflow Not Bypass

5-21-03  1:30 p.m.  Dry Weather Overflow observed (date/time)

5-22-03  9:00 a.m.  Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:

Mechanical regulator had a debris build-up at the internal gate.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

Zero

Actions taken to mitigate, minimize, and prevent future overflows:

Notified WPC Plant of debris in regulator. WPC Plant took corrective measures to remove debris and will continue to do routine inspections to mechanical regulators.

Signature: [Signature]
Sewer System Inspector
W.P.C.M. Fl. Wayne, IN 46803
(219)427-5591

702
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

<table>
<thead>
<tr>
<th>Facility Name: Port Wayne WWTP</th>
<th>County: Allen</th>
<th>Permit Number: IN032191</th>
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<tbody>
<tr>
<td>Brian Miller 260/427-5591</td>
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<th>Individual Making Report:</th>
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<tr>
<td>J11-164</td>
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<table>
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<tr>
<th>CSO Outfall Number</th>
<th>St. Mary's</th>
<th>Overflow Not Bypass</th>
</tr>
</thead>
<tbody>
<tr>
<td>River/Stream</td>
<td>Wastewater Treatment Plant Flow</td>
<td></td>
</tr>
</tbody>
</table>

05-19-03 9:23 a.m.
Dry Weather Overflow observed (date/time)

05-19-03 1:46 p.m.
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Due to extremely high river level, we were unable to gain access to the regulator structures for our routine weekly inspections. This caused a buildup of debris in the screen and line upstream from the regulator.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
Seven

Actions taken to mitigate, minimize, and prevent future overflows:
As soon as the river level dropped, we were able to do routine maintenance to stop the overflow

Signature: [Signature]
Sewer System Inspector
W.T.C.M. Ft Wayne, IN 46803
(219)427-5591
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at 317/232-7748.

Facility Name: Fort Wayne WWTP       County: Allen       Permit Number: IN0032191
Johnnie Robinson                        219/427-5591                        4-16-03
Individual Making Report: Phone Number: Overflow Date:

J11-164                                           St. Mary's                                      Overflow Not Bypass
CSO Outfall Number   River/Stream   Wastewater Treatment Plant Flow

4-16-03 @ 08:16 a.m
Dry Weather Overflow observed (date/time)

4-16-03 @11:21 a.m
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
A large amount of rags were causing a stoppage in the sewer line. Industrial pre-treatment division is currently tracing down the rag source. Once identified we will stop the source from entering the collection system.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
Six

Actions taken to mitigate, minimize, and prevent future overflows:
A crew removed stoppage and the WPC Plant is investigating for the source of the rags entering the system

Signature:
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Facility Name: Fort Wayne WWTP
County: Allen
Permit Number: IN0032191

Johnnie Robinson
Phone Number:

Individual Making Report:
Overflow Date:

St. Mary's
Overflow Not Bypass

CSO Outfall Number
River/Stream
Wastewater Treatment Plant Flow

02-19-03 @ 08:48 a.m.
Dry Weather Overflow observed (date/ time)

02-19-03 @ 2:00 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Before we were able to fully implement a cleaning schedule for this outfall, the screen that prevents debris from entering the regulator was covered with debris and had to be cleaned.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
six

Actions taken to mitigate, minimize, and prevent future overflows:
A cleaning schedule has now been fully implemented and we expect to see positive results in the very near future. We will be monitoring this overflow closely and intend to teleseize this at the earliest opportunity to see if more improvements are necessary.

Signature:
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8627. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191

Johnnie Robinson  219/427-5591  02-12-03
Individual Making Report:  Phone Number:  Overflow Date:

<table>
<thead>
<tr>
<th>K06-298</th>
<th>St. Marys</th>
<th>Overflow Not</th>
<th>Bypass</th>
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<tr>
<td>CSO Outfall Number</td>
<td>River/Stream</td>
<td>Wastewater Treatment Plant Flow</td>
<td></td>
</tr>
</tbody>
</table>

02-12-03 @ 2:00 p.m.
Dry Weather Overflow observed (date/time)

02-14-03 @ 1:35 p.m.
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Regulator K06-285 had a significant amount of blockage in the main line that enters the regulator.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
zero

Actions taken to mitigate, minimize, and prevent future overflows:
Bypass pumping began on 02-14-03. This stopped the overflow until we were able to remove the blockage on 02-17-03. We will be installing a screening device and will have to add this to our scheduled maintenance program to prevent future overflows.

Signature:
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written report requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage, report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191
Johnnie Robinson  Phone Number: 219/427-5591  1-17-03

Individual Making Report:  Permit Number:  Overflow Date:

<table>
<thead>
<tr>
<th>J11-164</th>
<th>St. Mary's River/Stream</th>
<th>Overflow Not Bypass</th>
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</thead>
<tbody>
<tr>
<td>CSO Outfall Number</td>
<td>Wastewater Treatment Plant Flow</td>
<td></td>
</tr>
</tbody>
</table>

1-17-03 @ 8.29 a.m.
Dry Weather Overflow observed (date/ time)

1-17-03 @ 11.45 a.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
A grate that was recently installed over an 18" line that goes to the regulator, was covered with debris.

Previous Dry Weather Overflows from this CSO in the last 12 months:
Five

Actions taken to mitigate, minimize, and prevent future overflows:
We have installed a grate that catches debris, thus stopping the debris from plugging the line inside the regulator. The difficult location has prevented us from making radical changes to the regulator. (The regulator is on a steep river bank with limited access for construction equipment.) The grate we have installed has minimized the overflows, but we feel that in order to eliminate the overflows, a crew will need to clean the grate in a timely manner. We are in the process of developing a routine maintenance schedule at this time.

Signature:
Sewer System Inspector
W.P.C.M.- Ft. Wayne, IN 46803
Report Date: 11-12-02

Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

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If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

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<tr>
<th>Facility Name: Fort Wayne WWTP</th>
<th>County: Allen</th>
<th>Permit Number: IN0032191</th>
</tr>
</thead>
<tbody>
<tr>
<td>Johnnie Robinson</td>
<td>219/427-5591</td>
<td>11-12-02</td>
</tr>
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</table>

**Individual Making Report:**

<table>
<thead>
<tr>
<th>Date</th>
<th>Time</th>
<th>Overflow Condition</th>
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<tbody>
<tr>
<td>11-12-02</td>
<td>@ 09:58 a.m.</td>
<td>Dry Weather Overflow observed (date/time)</td>
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<tr>
<td>11-12-02</td>
<td>@ 10:33 a.m.</td>
<td>Dry Weather Overflow abated (date/time)</td>
</tr>
</tbody>
</table>

Reason for Dry Weather Overflow:
A sewer line between the regulator (O22-045) and manhole (O22-091) was partially plugged allowing flow to divert to overflow.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
NONE

Actions taken to mitigate, minimize, and prevent future overflows:
Flushed sewer line allowing flow to return to its normal state. Will continue inspections and preventative scheduled maintenance.

Signature: [Redacted]
Sewer System Inspector
W.P.C.M. St. Wayne, IN 46803
(219)427-5591
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

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Facility Name: Port Wayne WWTP  County: Allen  Permit Number: IN0032191

<table>
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<tr>
<th>Individual Making Report:</th>
<th>219/427-5591</th>
<th>10-16-02</th>
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<tbody>
<tr>
<td>Phone Number:</td>
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<tr>
<td>J11-164</td>
<td>River/Stream</td>
<td>Wastewater Treatment Plant Flow</td>
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</tbody>
</table>

10-15-02 @ 8:00 p.m.
Dry Weather Overflow observed (date/time)

10-16-02 @ 12:15 p.m.
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Obstruction and/or breakage in 18" line going into regulator chamber

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
five

Actions taken to mitigate, minimize, and prevent future overflows:
By opening a small hole, we were able to stop overflow. However, it is necessary to dig up this line and repair it in the near future. It is in a very difficult location and will involve extensive planning and major construction.

Signature: [Signature]
Sewer System Inspector
W.P.C.M. St./Wayne, IN 46863
(219)427-5591
From: "John Robinson" <CU/JAROFA>
To: CU/JAMOFB
Date sent: Thu, 17 Oct 2002 08:10:03 -0500
Subject: Indian Village regulator overflow
Copies to: WPC/CACRFA, Michele Arnold <CU/MRARFA>

Jeff,
On October 17, 2002 we were opening the line at the Indian Village regulator. This has been an ongoing problem for quite some time. I believe it is time to approach engineering, and the WPC Plant to come up with a plan to repair the 18" line going into the regulator. This has overflowed five times in the last twelve months, and it isn't getting any better. Maybe with cooperation from the other departments we may be able to get it permanently fixed. This is going to require a lot of thought and planning just to be able to get the equipment into position to make the repairs.

Thanks,

Johnnie
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Report Date: 09-30-02

Instructions:
Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP
County: Allen
Permit Number: IN0032191

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<th>Overflow Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Johnnie Robinson</td>
<td>219/427-5591</td>
<td>09-30-02</td>
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</tbody>
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<th>CSO Outfall Number</th>
<th>St. Marys</th>
<th>Overflow Nut</th>
<th>Bypass</th>
</tr>
</thead>
<tbody>
<tr>
<td>03-313</td>
<td>River/Stream</td>
<td>Wastewater Treatment Plant Flow</td>
<td></td>
</tr>
</tbody>
</table>

09-30-02 @ 11:30 a.m.
Dry Weather Overflow observed (date/time)

09-30-02 @ 11:31 a.m.
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Contractor accidentally pumped to overflow while testing pump

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
one

Actions taken to mitigate, minimize, and prevent future overflows:
None taken (human error)

Signature:
Sewer System Inspector
W.J.C.M. P. Wayne, IN 46803
(219)427-5591
Report Date: 9-5-02

Indians Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191

Johnnie Robinson  219/427-5591  8-29 thru 9-3

Individual Making Report:  Phone Number:  Overflow Date:

ID-313  St. Mary's  Overflow Not Bypass
CSO Outfall Number  River/Stream  Wastewater Treatment Plant Flow

8-29-02 @ 11:43 p.m.
Dry Weather Overflow observed (date/ time)

9-3-02 @ 3:00 p.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Flapgate inside mechanical regulator failed to function properly

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months: 0

Actions taken to mitigate, minimize, and prevent future overflows:
Repairs to flapgate, and new software for computer that alerts plant of

Signature:  
Sewer System Inspector  
W.P.C.M. Ft. Wayne, IN 46803  
(219)427-5591

712
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191

Johnnie Robinson  Phone Number: 219/427-5591  06-14 thru 06-17-02

Individual Making Report:  Overflow Date:

<table>
<thead>
<tr>
<th>CSO Outfall Number</th>
<th>ST. MARY'S</th>
<th>Wastewater Treatment Plant Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>06-14-02 @ 0800 a.m.</td>
<td>River/Stream</td>
<td>Overflow Not Bypass</td>
</tr>
</tbody>
</table>

Dry Weather Overflow observed (date/time)

06-17-02 @ 12:35 p.m.

Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:

There was a considerable amount of debris and silt in the two siphon structures, regulator chamber, and approximately 400' of 18" combination pipe. Also there is evidence of a possible cave-in on top of the line upstream of the regulator chamber.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

Four

Actions taken to mitigate, minimize, and prevent future overflows: A road was built to gain access to the downstream siphon structure, and a combination unit was used to clean the structure and 700' of 18" pipe downstream. The first 400' of pipe was over half full of silt and required two days to clean. After cleaning these, an entry was made into the regulator chamber and it was thorough cleaned. There was also a significant amount of dirt removed inside of the internal gate which is possibly coming from a cave-in.

Signature: [Signature]

Sewer System Inspector

W.P.C.M. FORT WAYNE, IN 46803
(260) 427-5591

713
Indiana Department of Environmental Management  
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  
County: Allen  
Permit Number: IN0032191

Johnnie Robinson  
Individual Making Report:  
Phone Number:  
Overflow Date:  

II1-164  
St. Marys  
Overflow Not Bypass  

CSO Outfall Number  
River/Stream  
Wastewater Treatment Plant Flow

06-11-02 @ 10:30 a.m.  
Dry Weather Overflow observed (date/time)

06-11-02 @ 12:17 p.m.  
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Blockage in manhole downstream of siphon from the regulator.
This is scheduled to have a road built to accommodate a combination unit to properly service this problem. (Due to heavy rainfall this area has been under water until recently)

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months: (line)

Actions taken to mitigate, minimize, and prevent future overflows:
Removed debris from manhole and flushed the siphon lines.

Signature: [Signature]
Sewer System Inspector  
W.P.C.M. Ft. Wayne, IN 46803  
(219)427-5591
Indiana Department of Environmental Management  
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191


Individual Making Report:  Phone Number:  Overflow Date:

O10 252  Maumee River  3.47 MG
CSO Outfall Number  River/Stream  Wastewater Treatment Plant Flow

5/14/02 at 6:50 am
Dry Weather Overflow observed (date/time)

5/14/02 at 8:10 am
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Tripped circuit breaker on the #1 sanitary pump at the Morton Street Station. Pump #2 was awaiting parts from the last overflow. A private contractor installed the parts on 5/14/02 to correct the thermo overload on pump #2. The contractor is also investigating why pump #1 tripped the circuit.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
One

Actions taken to mitigate, minimize, and prevent future overflows:
The City has received the parts and installed them on pump #2. Pump #1 is being trouble-shooted to determine why it tripped.

Signature: Jeffrey A. Morris  
Superintendent  
W.P.C.M. Ft. Wayne, IN 46803  
(260) 427-1255

715
I was just informed that a dry weather discharge occurred at Morton Street pump station on 5-14-02. The start time was 6:50 a.m. and the end time was 8:10 a.m. The flow to the river in gallons is 106,495. The flow at the plant in MG in that time period was 3.47 MG. The reason for this overflow is a tripped circuit breaker on the #1 sanitary pump. Pump #2 was waiting on parts from the last overflow. The parts were installed today to correct the thermo overload on pump 2 by the contractor. The contractor is now investigating the tripped circuit today also.

Cheryl Cronin
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environment Response at 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191
Individual Making Report:  Phone Number:  Overflow Date:

CSO Outfall Number  Maumee River  5.624 MGD
CSO Outfall Number  River/Stream  Wastewater Treatment Plant Flow

5/4/02 at 4:20 pm  Dry Weather Overflow observed (date/time)
5/4/02 at 6:20 pm  Dry Weather Overflow halted (date/time)

Reason for Dry Weather Overflow:
Main power source failure at the Morton Street Pump Station. When the pump station transferred the power to the secondary supply it appeared to be unbalanced causing the breakers to trip. Because of this, a storm pump activated several times before the secondary power stabilized itself enough to operate the sanitary pumps.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
None

Actions taken to mitigate, minimize, and prevent future overflows:
The WWTP is working with the power company (AEP) in getting the secondary power supply balanced enough to engage properly.

Signature: Jeffrey A. Morris
Superintendent
W.P.C.M. Ft. Wayne, IN 46803
(260) 427-1255
Indiana Department of Environmental Management  
Office of Water Management, Dry Weather Overflow Incident Report

**Instructions:** Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

<table>
<thead>
<tr>
<th>Facility Name: Fort Wayne WWTP</th>
<th>County: Allen</th>
<th>Permit Number: IN0632191</th>
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</thead>
<tbody>
<tr>
<td>Johnnie Robinson</td>
<td>219/427-5591</td>
<td>3-11-02</td>
</tr>
<tr>
<td>Individual Making Report:</td>
<td>Phone Number:</td>
<td>Overflow Date:</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>311-164</th>
<th>St. Mary's</th>
<th>Overflow Not Bypass</th>
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</thead>
<tbody>
<tr>
<td>CSO Outfall Number</td>
<td>River/Stream</td>
<td>Wastewater Treatment Plant Flow</td>
</tr>
</tbody>
</table>

03-11-02 @ 0838 a.m.  
Dry Weather Overflow observed: (date/ time)

03-11-02 @ 1:00 p.m.  
Dry Weather Overflow abated: (date/ time)

Reason for Dry Weather Overflow:  
Debris blocking siphon line downstream of regulator.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:  
(Two)

Actions taken to mitigate, minimize, and prevent future overflows:  
Removed debris from upstream side of siphon lines (both barrels). We will also be cleaning the siphon lines as soon as we can make it accessible for a vehicle.

Signature:  
Sewer System Inspector  
W.P.C.M. Fl. Wayne, IN 46803  
(219)427-5591

718
Indiana Department of Environmental Management  
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

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<tr>
<td>Johnnie Robinson</td>
<td>219/427-5591</td>
<td>03-06-02</td>
</tr>
<tr>
<td>Individual Making Report:</td>
<td></td>
<td></td>
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<tr>
<td></td>
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</table>

<table>
<thead>
<tr>
<th>J11-164</th>
<th>St. Marys</th>
<th>Overflow Not Bypass</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSO Outfall Number</td>
<td>River/Stream</td>
<td>Wastewater Treatment Plant Flow</td>
</tr>
</tbody>
</table>

03-06-02 @ 0815 a.m.  
Dry Weather Overflow observed (date/time)

03-06-02 @ 2:09 p.m.  
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Blockage in line entering regulator.

Previous Dry Weather Overflows from this CSO Outfall In the last 12 months: (none)

Actions taken to mitigate, minimize, and prevent future overflows:
This problem is in a very difficult location and we are in the process of trying to eliminate some equipment as noted in the previous report dated 11-06-02. We removed a small amount of roots and some debris on 3-6-02. This stopped the overflow but we need to address a long term solution.

Signature:  
Sewer System Inspector  
W.P.C.M. Ft. Wayne, IN 46803  
(219)427-5591
As you can see the pipe narrows at the internal gate. We believe the opening is smaller than the pipe making it very difficult to get through from the back side. We have tried to open from the internal gate side but the gate itself prevented us from doing so. Could the plant remove the gate? This is a lot closer to the problem and we could possibly see it and identify the actual problem.
From: "Jeff Morris" <CU/JAMOFB>
To: WPC/BSPAFA (Brian Panzer)
Date sent: Tue, 5 Feb 2002 08:16:09 -0500
Subject: (Twd) INDIAN VILLAGE REGULATOR
Copies to: CU/JAROFA (John Robinson)

Brian could you look into this and see if removing the flapgate is possible. We are in this structure on average 3 times a year removing the debris from around the gate.

Let me know if anything can be done. Thanks...

-------- Forwarded message follows --------
From: "John Robinson" <CU/JAROFA>
To: CU/JAMOFB
Date sent: Mon, 26 Nov 2001 13:58:57 -0500
Subject: INDIAN VILLAGE REGULATOR

Jeff,

We are having a problem cleaning the eighteen inch line that enters the regulator. Gary assisted me the last time we cleaned it and we think that if we could get the plant to remove the gate inside of the chamber we can clean it better. It seems as though we clean it just enough to open the line but it eventually clogs back up. I'm concerned this could be a problem with IDEM in the future if we don't get it cleaned properly. The SIP number is J11-164.

Could you please check with Brian Panzer and see if it is possible to do this.

Thanks,
Johnnie

-------- End of forwarded message --------

John Robinson  ~ 1 ~  Mon, 11 Mar 2002 09:57:19
Indiana Department of Environmental Management  
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/233-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit. If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/233-7745.

Facility Name: Fort Wayne WWTP  
County: Allen  
Individual Name: Johnnie A. Robinson Jr.  
Individual Phone Number: 219/427-5591  
Permit Number: IN0032191  
Overflow Date: 11-06-01

<table>
<thead>
<tr>
<th>CSO Outfall Number</th>
<th>St Mary's River or Stream</th>
<th>Overflow Notation</th>
<th>Bypass</th>
</tr>
</thead>
<tbody>
<tr>
<td>J11-164</td>
<td></td>
<td>Wastewater Treatment Plant Flow</td>
<td></td>
</tr>
</tbody>
</table>

11-06-01 @ 08:00 a.m. 
Dry Weather Overflow observed (date/time)

11-06-01 @ 12:00 p.m. 
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Blockage in the line entering the regulator

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
None

Actions taken to mitigate, minimize, and prevent future overflows:
- Removed blockage with auger, also looking into possibility of removing internal flap gate that is not functioning so we can better maintain the line.

Signature:  
Sewer System Inspector  
W.P.E.M. M. Wayne, IN 46803  
(219)/427-5591
Indiana Department of Environmental Management  
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  
County: Allen  
Permit Number: IN0032191

| Individual Making Report: Cheryl Cronin | Phone Number: 219-4271243 | Overflow Date: 11-1-01 |

<table>
<thead>
<tr>
<th>CSO Outfall Number</th>
<th>River/Stream</th>
<th>Overflow Date: 11-1-01 12:30 a.m.</th>
</tr>
</thead>
<tbody>
<tr>
<td>010-252</td>
<td>Maumee River</td>
<td>2 Million Gallons</td>
</tr>
</tbody>
</table>

Dry Weather Overflow observed (date/time):

11-1-01 2:00 a.m.

Dry Weather Overflow abated (date/time):

Reason for Dry Weather Overflow: Sanitary pump failure

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months: none

Actions taken to mitigate, minimize, and prevent future overflows:

Contractor will install a back-up pump in the next few weeks. This is a transition period at this outfall because we are replacing the pumps.

Signature: Cheryl Cronin  
Sewer System Inspector  
W.P.C.M. Ft. Wayne, IN 46803
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-9637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP County: Allen Permit Number: IN0032191

Johnnie Robinson 219/427-5591 8-01-01
Individual Making Report: Phone Number: Overflow Date:

<table>
<thead>
<tr>
<th>K06-234</th>
<th>St. Mary's</th>
<th>Overflow Not</th>
<th>Bypass</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSO Outfall Number</td>
<td>River/Stream</td>
<td>Wastewater Treatment Plant Flow</td>
<td></td>
</tr>
</tbody>
</table>

08-01-01 @ 3:00 p.m.
Dry Weather Overflow observed (date/time)

08-02-01 @10:00 a.m.
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Blockage in gate at regulator K06-275

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
0

Actions taken to mitigate, minimize, and prevent future overflows:
Removed blockage. Will continue routine inspections

Signature:
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191

Johnnie A. Robinson  219/427-5591  08-01-00

Individual Making Report:  Phone Number:  Overflow Date:

K15-116  St. Mary's  Overflow Not Bypass

CSO Outfall Number  River/Stream  Wastewater Treatment Plant Flow

08-01-00 @ 8:32 a.m.
Dry Weather Overflow observed (date/time)

08-01-00 @ 9:46 a.m.
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:

Loss of power to mechanical regulator (blown fuse)

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

RIVE

Actions taken to mitigate, minimize, and prevent future overflows:
Cause for blown fuses is unknown at this time. Plant personnel have checked circuits and found nothing wrong. Problem may be at the utility pole. They are advising AEP of this possibility.

Signature: Johnnie Robinson
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at 317/232-7445.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0632191

Craig Kunkosky  219/427-5591  03-07-00

Individual Making Report: Phone Number:

Overflow Date:

03-07-00

St. Mary's River  CSO-DWO NOT BY-PASS

CSO Outfall Number  River/Stream  Wastewater Treatment Plant Flow

11:45 A.M.

Dry Weather Overflow observed (date/time)

12:30 P.M.

Dry Weather Overflow shut off (date/time)

Reason for Dry Weather Overflow: Blown fuse in mechanical regulator.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months: FOUR

Actions taken to mitigate, minimize, and prevent future overflows: WPCP is having electrician check for poor connections (shorts) that may cause the fuses to blow.
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at 317/232-7745.

Facility Name: Fort Wayne WWTP
County: Allen
Permit Number: IN0032191

Craig Kanovsky 219/427-5591 12-08-99
Individual Making Report: Phone Number: Overflow Date:

K15-116
CSO Outfall Number
St. Mary's River River/Stream Wastewater Treatment Plant Flow

12-08-99 9:40 a.m.
Dry Weather Overflow observed (date/time)

12-08-99 12:45 p.m.
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow: ELECTRICAL PROBLEM CORRECTED BY THE PLANT.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months: ONE

Actions taken to mitigate, minimize, and prevent future overflows: AS DETERMINED BY PLANT ELECTRICIAN.

Signature: ____________________________
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions:
Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191
219/427-5591

<table>
<thead>
<tr>
<th>Individual Making Report:</th>
<th>Phone Number:</th>
<th>Overflow Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Craig H. Kowalski</td>
<td>1-219-427-5591</td>
<td>12-02-99</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CSO Outfall Number M10-151</th>
<th>River/Stream St. Mary's River</th>
<th>Wastewater Treatment Plant Flow CSO OVERFLO W</th>
</tr>
</thead>
</table>

Dry Weather Overflow observed (date/time)
12-02-99 10:00 a.m.

Dry Weather Overflow abated (date/time)
12-02-99 6:00 p.m.

Reason for Dry Weather Overflow:
Blockage in Regulator, cleared by WPCP

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
NONE

Actions taken to mitigate, minimize, and prevent future overflows:
Similar situations could occur at anytime, shall continue with regular inspections.

Signature: [Signature]

Report Date: 12-06-99
12-08-99 Approx 8:30 A.M.
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

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<th>County: Allen</th>
<th>Permit Number: IN0033191</th>
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</thead>
<tbody>
<tr>
<td>Johnnie Robinson</td>
<td>219/427-5591</td>
<td>8-2-99</td>
</tr>
<tr>
<td>Individual Making Report:</td>
<td>Phone Number:</td>
<td>Overflow Date:</td>
</tr>
<tr>
<td>PO6-L02</td>
<td></td>
<td></td>
</tr>
<tr>
<td>CSO Outfall Number</td>
<td>Maumee River</td>
<td>Overflow / Not Bypass</td>
</tr>
<tr>
<td></td>
<td>River/Stream</td>
<td>Wastewater Treatment Plant Flow</td>
</tr>
</tbody>
</table>

8-2-99 @ 10:42 a.m.
Dry Weather Overflow observed (date/ time)

8-2-99 @ 11:22 a.m.
Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow:
Internal flapgate clogged with debris

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
one on 2-18-99

Actions taken to mitigate, minimize, and prevent future overflows:
Routine cleaning and inspections

Signature: [Signature]

Report Date: 8-2-99
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191

Johnnie Robinson  219/427-5591  7-22-99

Individual Making Report:  Phone Number:  Overflow Date:  

K15-116  St. Marys  Overflow Not Bypass
CSO Outfall Number  River/Stream  Wastewater Treatment Plant Flow

7-22-99 @ 8:00 a.m.
Dry Weather Overflow observed (date/time)

7-22-99 @ 9:00 a.m.
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Relay switch malfunctioning in mechanical regulator

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
6-21-99 same problem

Actions taken to mitigate, minimize, and prevent future overflows:
WPC plant replaced relay with new

Signature: [Signature]
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Sturk, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP
County: Allen
Permit Number: IN9032191

<table>
<thead>
<tr>
<th>Individual Making Report:</th>
<th>Phone Number:</th>
<th>Overflow Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>Johnnie A. Robinson Jr.</td>
<td>219/427-5591</td>
<td>6-21-99</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>K115-116</th>
<th>St. Marys</th>
</tr>
</thead>
<tbody>
<tr>
<td>CSO Outfall Number</td>
<td>River/Stream</td>
</tr>
<tr>
<td>Wastewater Treatment Plant Flow</td>
<td></td>
</tr>
</tbody>
</table>

6-21-99 at 0900 hours
Dry Weather Overflow observed (date/time)

6-21-99 at 1235 hours
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Temporary power failure at mechanical regulator

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
0

Actions taken to mitigate, minimize, and prevent future overflows:
None taken, power failure caused by Mother Nature

Signature:
# CSO/PASSIVE REGULATOR INSPECTION CHECKLIST

Date: 2-18-94
Rainfall 0.40 in last 24 hours.

<table>
<thead>
<tr>
<th>Inv#</th>
<th>Overflowing</th>
<th>Plateau Reg.</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>R14-137</td>
<td>No</td>
<td>N/FG</td>
<td>12:09</td>
<td>25' W of Arby's lot @ 70th St.</td>
</tr>
<tr>
<td>R14-138</td>
<td>No</td>
<td>FG</td>
<td>12:10</td>
<td>State &amp; Laverne Ditch</td>
</tr>
<tr>
<td>S18-082</td>
<td>No</td>
<td>REG</td>
<td>12:11</td>
<td>State &amp; Coliseum</td>
</tr>
<tr>
<td>O10-097</td>
<td>No</td>
<td>N/FG</td>
<td>12:32</td>
<td>100' SE of Morton Pump Station</td>
</tr>
<tr>
<td>O10-252</td>
<td>No</td>
<td>FG</td>
<td>12:33</td>
<td>100' SW of Morton Pump Station</td>
</tr>
<tr>
<td>O10-273</td>
<td>No</td>
<td>REG</td>
<td>12:40</td>
<td>500 Coombs St. @ CAJ Food</td>
</tr>
<tr>
<td>O10-277</td>
<td>No</td>
<td>FG</td>
<td>12:42</td>
<td>50' N of REG O10-273</td>
</tr>
<tr>
<td>O10-257</td>
<td>No</td>
<td>FG</td>
<td>12:43</td>
<td>300' S at end of Griffen St.</td>
</tr>
<tr>
<td>P06-192</td>
<td>No</td>
<td>FG</td>
<td>12:48</td>
<td>Under Anthony St. Bridge North of Berry S bank</td>
</tr>
<tr>
<td>N06-022</td>
<td>No</td>
<td>N/FG</td>
<td>12:56</td>
<td>120' N of Hanna &amp; Berry</td>
</tr>
<tr>
<td>M10-238</td>
<td>No</td>
<td>FG</td>
<td>1:22</td>
<td>E of bridge @ Spy Run &amp; Superior N bank</td>
</tr>
</tbody>
</table>

Comments: P06-192 - Light outfall - Phased Q & QCP. Ranger to have crested elevation 2-18-94.
Indyam Department of Environmental Management  
Office of Water Management. Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745. 6:30 A.M. 11-16-98

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191

Individual Making Report:  Phone Number:  Overflow Date: 11-9-98

CSO Outfall Number:  River/Stream: Overflow/Not Bypass  Wastewater Treatment Plant Flow

11-9-98  10:30 AM  Dry Weather Overflow observed (date/ time)

11-16-98  1:15 P.M  Dry Weather Overflow abated (date/ time)

Reason for Dry Weather Overflow: CSO REGULATOR LOCATED AT ANTHONY/WAYNE ST. WAS PLUGGED.  OBSTRUCTION WAS CLEARED BY WPC PLANT UPON ENTRY.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

Actions taken to mitigate, minimize, and prevent future overflows: ROUTINE INSPECTIONS BY WPCM OF OUTFALLS ROUTINE INSPECTIONS OF REGULATORS AND CLEANING.

Signature: [Signature]

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Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions:
Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWT
County: Allen
Permit Number: IN0032191

Individual Making Report: John Kirk Johnson
Phone Number: 219/427-5591
Overflow Date: 11-9-98

CSO Outfall Number: Pou-192
River/Stream: Maumee
Wastewater/Treatment Plant Flow:

11-9-98 @ 10:30 am
Dry Weather Overflow observed (date/time)

11-10-98 11:00 am
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Debris in Flow Chamber

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
0

Actions taken to mitigate, minimize, and prevent future overflows:
Routing cleaning of Collection Chambers
By WPICP

Signature: [Signature]
Sewer System Inspector
W.P.C.M. Ft. Wayne, IN 46803
(219)427-5591
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Report Date: 11-9-98

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191

Individual Making Report: Craig Kankovsky  Phone Number: 219/427-5591  Overflow Date: 11-9-98

Overflow/Not By Pass

CSO Outfall Number: Pol-192  River/Stream: Maumee  Wastewater Treatment Plant Flow: OVERFLOW

Dry Weather Overflow observed (date/time): 11-9-98 10:30 AM

Will Notify
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
UNKNOWN AT THIS TIME  POSSIBLE REGULATOR PROBLEM

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

Actions taken to mitigate, minimize, and prevent future overflows:
NOTIFIED PLANT MGMT. OF OVERFLOW PROBLEM.

Signature: Kankovsky
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8037. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0932191

Individual Making Report:  Phone Number:  Overflow Date:

CSO Outfall Number: Rosco  River/Stream: St. Marys  Wastewater Treatment Plant Flow:

10-5-98 @ 9:25 am
Dry Weather Overflow observed (date/time)

10-4-98 @ 11:00 am
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:

FLOATS NOT ADJUSTED PROPERLY IN CHAMBER CAUSING DISCHARGE TO RIVER

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

2

Actions taken to mitigate, minimize, and prevent future overflows:

FLOATS WERE ADJUSTED AND ARE FUNCTIONING PROPERLY

Signature:  
W. P. C.M. Fl. Wayne, IN 46803
(219) 427-5591
Indians Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Cary Stark, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP     County: Allen     Permit Number: IN0032191

Joanne Robinson     219/427-5591     10-5-98
Individual Making Report: Phone Number: Overflow Date:

K03-092     ST. MARIES
CSO Outfall Number     River/Stream     Wastewater Treatment Plant Flow

10-5-98 @ 9:25 A.M.
Dry Weather Overflow observed (date/time)

WILL NOTIFY
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
REPLACEMENT OF REGULATORY CONTROLS, AFFECTED WASTEWATER TREATMENT PLANT @ 9:31 A.M.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

Actions taken to mitigate, minimize, and prevent future overflows:

Signature:
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Report Date: 3-5-98

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191

<table>
<thead>
<tr>
<th>Individual Making Report</th>
<th>Phone Number</th>
<th>Overflow Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>JOHANNIE REHMEN</td>
<td>219/477-5591</td>
<td>3-5-98</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>CSO Outfall Number</th>
<th>River/Stream</th>
<th>Wastewater Treatment Plant Flow</th>
</tr>
</thead>
<tbody>
<tr>
<td>K07-176</td>
<td>St. Marys</td>
<td>OVERFLOW NOT BYPASS</td>
</tr>
</tbody>
</table>

3-5-98 12:00 pm  Dry Weather Overflow observed (date/time)

3-5-98 1:30 pm  Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:

FLOAT STUCK IN REGULATOR CAUSING GATE TO REMAIN SHUT

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:

N/A

Actions taken to mitigate, minimize, and prevent future overflows:

NOTIFIED WWTP TO LUBRICATE APPROPRIATE FITTINGS

Signature: [Signature]

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Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions:
Complete all parts of this form and fax it to Gary Starks. Office of Water Management, Compliance Branch at 317/232-8617. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at: 317/232-7715.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0032191

Individual Making Report:

Phone Number: 1-27-98

Overflow Date:

CSO Outfall Number: 165  River/Stream: STIMARYS  Wastewater Treatment Plant Flow: CSO OVERFLOW

1-27-98  9:50 AM  Dry Weather Overflow observed (date/time)

1-29-98  8:30 AM  Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
3' dia. Wooden Wire Spool blocking one of two normal flow lines to interceptor in mechanical regular, cleared by WPC plant crew

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
None observed

Actions taken to mitigate, minimize, and prevent future overflows:
Regular Outfall Inspections

Signature: [Signature]

Report Date: 1-29-98
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage, report the situation to the Office of Environmental Response at 317/232-7745.

Facility Name: Fort Wayne WWTP  County: Allen  Permit Number: IN0332191

Craig Kankovsky 219/427-5591  1-27-98

Individual Making Report  Phone Number: Overflow Date:

K-11-16S  St Mark's  CSO Overflow

CSO Outfall Number  River/Stream  Wastewater Treatment Plant Flow

1-27-98  9:50 AM
Dry Weather Overflow observed (date/time)

Will Notify

Dry Weather Overflow observed (date/time)

Reason for Dry Weather Overflow:
Possible restriction in mechanical regulator at K11-16S, referring to Plant (WPC) to check and clean as necessary.

Overflow is from 12G line, snow melt is contributing to situation.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
None observed

Actions taken to mitigate, minimize, and prevent future overflows:

Signature: Craig Kankovsky
Indiana Department of Environmental Management  
Office of Water Management, Bypass/Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at (317) 233-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the bypass is resulting in a fish kill or other severe environmental damage report the release to the Office of Emergency Response at: (317) 233-7745.

Facility Name: Ft. Wayne WWTP  
County: Allen  
Permit Number: 11NO 32191

Individual Making Report: Craig Kankovsky  
Phone Number:  
Bypass Date: 12-2-97  
Node Noted

Duration, Start/Stop Time: 12:30 PM  
Gallons:  
Aquatic Life Killed / Stream

Wastewater Treatment Plant Flow during bypass (MGD):

Reason For Release:

Roots in Normal Flow Line

Had Hydraulic Sewer Jet Run

Root Saw in 10" Line

Stopped Overflow

Actions Taken To Prevent, Minimize or Mitigate Damage:

Has Been Put in 10 Ticket Computer For Regular Maintenance

Signature: [Signature]

Report Date: 12-3-97
Indiana Department of Environmental Management
Office of Water Management, Bypass/Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at (317) 232-5637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the bypass is resulting in a fish kill or other severe environmental damage report the release to the Office of Emergency Response at: (317) 233-7745.

Facility Name: Fort Wayne WRT County: Allen or 7255 Permit Number: 110032191
650 Craig Kunkles 219-427-5591
Individual Making Report Phone Number:
Overflow
Bypass Date:
12-7-97 11 am
Overflow
Duration/Start/Stop Time: 6:00 pm
Aquatic Life Killed?/Stream
Wastewater Treatment Plant Flow during bypass (MGD):
Reason For Release:

Roots in Normal Flow Line - Requested

Root Saw to Clean 10" Line ASAP

02/28/04

Actions Taken To Prevent, Minimize or Mitigate Damage:

Clearing of Roots in Normal Flow Line

Signature: [Signature]

Report Date: 12-1-97
Indiana Department of Environmental Management
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Stacks, Office of Water Management, Compliance Branch at 317/232-8637.
This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at 317/232-7745.

Facility Name: Fort Wayne WWTP
County: Allen
Permit Number: IN0032191

Individual Making Report:
Phone Number:
Overflow Date:

CSO Outfall Number: K14-044
St. Mary's River, Stream
Wastewater Treatment Plant Flow

11/18/97 11:45 Am
Dry Weather Overflow observed (date/time)

11/18/97 1 Pm
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
MALFUNCTION AT WOODHURST REGULATOR
WPC PLANT CORRECTED SITUATION
DID NOT OBSERVE ANY AQUATIC LIFE KILLED
Approx 5 p.m.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months:
Several, all reported

Actions taken to mitigate, minimize, and prevent future overflows:
Almost daily inspections

Signatures: [Signature]

CSO/551 1-215-027 5971
Indiana Department of Environmental Management  
Office of Water Management, Dry Weather Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at 317/232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit. If the overflow is causing a fish kill or other severe environmental damage report the situation to the Office of Environmental Response at 317/232-7745.

<table>
<thead>
<tr>
<th>Facility Name: Fort Wayne WWTP</th>
<th>County: Allen</th>
<th>Permit Number: IN0032191</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mark R. Essex</td>
<td>219/427-2906</td>
<td>October 31, 1997</td>
</tr>
<tr>
<td>Individual Making Report:</td>
<td>Phone Number:</td>
<td>Overflow Date:</td>
</tr>
<tr>
<td>K19-044</td>
<td>St. Mary's River</td>
<td>N/A</td>
</tr>
<tr>
<td>CSO Outfall Number</td>
<td>River/Stream</td>
<td>Wastewater Treatment Plant Flow</td>
</tr>
</tbody>
</table>

Continuous
Dry Weather Overflow observed (date/time)

Revised correction date is November 7, 1997
Dry Weather Overflow abated (date/time)

Reason for Dry Weather Overflow:
Due to repeated dry weather overflows, a comprehensive inspection was undertaken during the summer. Down-pipe from the regulator, the pipe was obstructed with roots and silt. Crews were dispatched to cut through the roots. This took several days. Dry weather overflows occurred again. This time more drastic measures were taken. A “bucket” machine was used in the pipe to clean it. After nearly two weeks, the bucket jammed in the pipe creating a mostly impassable obstruction causing flows to be diverted to the river.

An emergency order was approved by the Board of Public Works to open the pipe and replace the necessary structures. After repeated delays in securing the necessary replacement structure, the contractor assures City Staff that the project will start in the middle of next week. City crews have been observing and investigating the situation daily.

Previous Dry Weather Overflows from this CSO Outfall in the last 12 months: Several, all reported.

Actions taken to mitigate, minimize, and prevent future overflows: See above

Signature: [Signature]
Indiana Department of Environmental Management  
Office of Water Management, Bypass/Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at (317) 232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the bypass is resulting in a fish kill or other severe environmental damage report the release to the Office of Emergency Response at: (317) 233-7745.

Facility Name: From: Oak County: Allen  
Permit Number: 19460-001

Individual Making Report: Phone Number:  
Bypass Date: Oct. 1, 1997

Foot Essex  219-427-2926

Total: 1,000,000 GPD, 0%  
8:00 250pm

Duration, Start/Stop Time: Gallons:  
Aquatic Life Killed 0/Stream

Wastewater Treatment Plant Flow during bypass (MGD):

Reason For Release:

Classified regulator which diverted flow from wnp

to St. Mary's Rvr.

Actions Taken To Prevent, Minimize or Mitigate Damage:

Regular inspection and cleaning schedules are included

in the CSS Operational Plan.

Signature: [Signature]
I apologize for the inconvenience. I tried to reach you by phone and could not. The information you requested is on this copy.

Sorry again, Johnnie.

Facility Name: FVWWTP  County: ALLEN  Permit Number: IN0032191

Individual Making Report: Robinson  Phone Number: (219) 427-5591  Bypass Date: 24 Sept. 97

Event: 9/24/97 8:30 AM  100 000  New Okeechobee/St. Mary's Aquatic Life Killed 7/Stream

Duration, Start/Stop Time:  Gallons: 

Overflow/Not Bypass

Wastewater Treatment Plant Flow during bypass (MGD):

Reason For Release:

Power bucket machine used to clean downstream line is stuck in line and causing overflow to river. K19-044

Any Questions POC: Mark Essex (219) 427-2906

Actions Taken To Prevent, Minimize or Mitigate Damage:

Line is being dug out and repaired by private contractor. Estimated time of completion 25 Oct 97. We will notify you when corrected.

Signature:

746
Indiana Department of Environmental Management
Office of Water Management, Bypass/Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Starks, Office of Water Management, Compliance Branch at (317) 232-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the bypass is resulting in a fish kill or other severe environmental damage report the release to the Office of Emergency Response at: (317) 233-7745.

Facility Name: F-1, Wayne WWTP
County: Allen

RAIG KANKOOSKY
219-427-5591

Individual Making Report: G
Phone Number: Bypass Date:

8:15 AM / 8:50 AM
S - GPM

Duration, Start/Stop Time: 4:55:47 Gallons:

Aquatice Life Killed ??/Stream

Wastewater Treatment Plant Flow during bypass (MGD):

Reason For Release:

Heavy debris in sewer line down stream from "weelhirst Regulator", also heavy silt and cinders in float chamber

K19-044

Actions Taken To Prevent, Minimize or Mitigate Damage:

Cleaning of two sets downstream with "power machines", also hand NPC & cleaning in float chamber

Signature: RAIG KANKOOSKY

S 51 from 03/50/5
Indiana Department of Environmental Management  
Office of Water Management, Bypass/Overflow Incident Report

Instructions: Complete all parts of this form and fax it to Gary Stacks, Office of Water Management, Compliance Branch at (317) 233-8637. This report will satisfy the telephone and written letter requirements of your NPDES permit.

If the bypass is resulting in a fish kill or other severe environmental damage report the release to the Office of Emergency Response at: (317) 233-7745.

Facility Name: Fremont WWTP  
County: Allen  
Permit Number: IN0032191

Individual Making Report:  
Phone Number:  
Bypass Date: May 20, 1997

Start: 1997.05.20 07:30 UTC  
Stop: 1997.05.20 07:30 UTC  
Duration, Start/Stop Time: 75 minutes  
Gallons:  
Aquatic Life Killed: 7/Stream

OVERFLOW, NOT BYPASS

Wastewater Treatment Plant Flow during bypass (MGD):

Reason For Release:

LINE CLOSER GOING TO REGULATOR. DIVERTED FLOW TO ST. MARY'S 1/4-014

Actions Taken To Prevent, Minimize or Mitigate Damage:

Combunated control. VACUUM LINES GOING TO AND FROM REGULATOR

Signature:
<table>
<thead>
<tr>
<th>CS18</th>
<th>Overflowing</th>
<th>Flags</th>
<th>Time</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>M18-012</td>
<td>Y</td>
<td>941</td>
<td>520' N of State Bl. &amp; Westbrook Dr. Intersection on W bank.</td>
<td></td>
</tr>
<tr>
<td>M22-103</td>
<td>Y</td>
<td>1035</td>
<td>100' E of Penn Place &amp; Spy Run intersection on W bank.</td>
<td></td>
</tr>
<tr>
<td>M22-093</td>
<td>Y</td>
<td>1030</td>
<td>130' E of Dalgren &amp; Spy Run intersection on W bank.</td>
<td></td>
</tr>
<tr>
<td>O22-094</td>
<td>Y</td>
<td>1030</td>
<td>200' E of Parnell Av. Bridge on S bank.</td>
<td></td>
</tr>
<tr>
<td>O22-002</td>
<td>Y</td>
<td>1030</td>
<td>120 NWW of St. Joe River Rd. &amp; Woodrow Av. on S bank.</td>
<td></td>
</tr>
<tr>
<td>O22-004</td>
<td>Y</td>
<td>1030</td>
<td>370' W on N. Anthony Bl. &amp; St. Joe River Rd. on E bank.</td>
<td></td>
</tr>
<tr>
<td>O22-071</td>
<td>Y</td>
<td>1030</td>
<td>50' N. of O22-004</td>
<td></td>
</tr>
<tr>
<td>M18-014</td>
<td>Y</td>
<td>1030</td>
<td>200' E of Northside Dr. &amp; Curdes Av. intersection</td>
<td></td>
</tr>
<tr>
<td>M18-167</td>
<td>Y</td>
<td>1030</td>
<td>150' W of Charlotte Av. &amp; Northside Dr. intersection on E bank on E bank.</td>
<td></td>
</tr>
<tr>
<td>R14-137</td>
<td>Y</td>
<td>1030</td>
<td>200' West of Lavern Av. &amp; State St. intersection.</td>
<td></td>
</tr>
</tbody>
</table>

Comments: Finished West Bank overflow - 130 to close.
Nine Minimum Controls – No. 5

EXHIBIT E-3
Recommendations to Eliminate or Reduce DWOs

Procedures

1. Review and revise as necessary the inspection procedures for float operated mechanical regulators. These regulators should be inspected frequently to determine if base flows are obstructed as they pass through the regulator.

2. Review and revise as necessary the inspection and maintenance procedures for the gravity sewers just downstream of regulators. The frequency of inspection and cleaning at these locations should be higher than that for typical gravity sewers.

Studies

1. Study the possibility of converting mechanical regulators to static regulators.

2. TV the section of 18” pipe between the diversion section and regulator chamber of regulator J11-163. Continue looking for the source of shop rags.

3. Develop alternatives for screening debris at regulator O10-311.

Capital Projects – None are recommended at this time.
Nine Minimum Controls – No. 5

EXHIBIT E-4