

# **City of Rockford**

## **NPDES Municipal Separate Storm Sewer System (MS4) Illicit Discharge Elimination Plan**

**Prepared for:  
The Lower Grand River Watershed**

**August 1, 2013  
Project Nos. G120878**



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engineers • scientists • architects • constructors

**LOWER GRAND MS4 COMMUNITIES IN  
KENT COUNTY**

**ILLCIT DISCHARGE ELIMINATION PLAN**

**PREPARED FOR:  
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## LIST OF ABBREVIATIONS/ACRONYMS

BMP	Best Management Practice
GVMC	Grand Valley Metropolitan Council
IDEP	Illicit Discharge Elimination Plan
KCDC	Kent County Drain Commissioner
KCRC	Kent County Road Commission
LGRW	Lower Grand River Watershed
MDEQ	Michigan Department of Environmental Quality
MS4	Municipal Separate Storm Sewer Systems
OSDS	Onsite Sewage Disposal Systems
PEAS	Pollution Emergency Alert System
PEP	Public Education Plan
SSOs	Sanitary Sewer Overflows
SWPPI	Stormwater Pollution Prevention Initiative

## 1.0 INTRODUCTION

This Illicit Discharge Elimination Plan (IDEP) has been prepared in accordance with the requirements of the General Permit Application for Storm Water Discharges from Municipal Separate Storm Sewer Systems (MS4) subject to watershed plan requirements. The IDEP is intended to prohibit and effectively eliminate illicit discharges to the MS4.

The IDEP is being implemented under a cooperative program administered by the Grand Valley Metropolitan Council (GVMC) and involving the county agencies and municipal units participating in the Watershed Approach.

The IDEP includes the following section headings:

- IDEP goals
- Legal authority
- Outfall and discharge point lists
- Identification and elimination of existing illicit discharges
  - Locating problem areas
  - Finding the source of illicit discharges
  - Removing/correcting illicit connections
- Minimizing seepage from septic systems and sanitary sewers
- Spill response procedures
- Preventive measures
- Documentation and reporting

## 2.0 IDEP GOALS

- Find, prioritize, and eliminate illicit discharges and illicit connections identified during dry-weather screening activities.
- Minimize infiltration of seepage from sanitary sewers and onsite sewage disposal systems (OSDS) into the MS4.
- Establish the legal authority for the community to eliminate illicit discharges found entering the MS4.
- Maintain a map of the MS4, point sources, and stormwater outfalls.
- Establish a system to document and report information regarding the IDEP including complaints, outfall screening, and illicit connections found and removed.
- Determine a method to evaluate the effectiveness of the illicit discharge elimination activities based on the watershed goals.

### 3.0 LEGAL AUTHORITY - IDEP ORDINANCES

Local ordinances, the Michigan Plumbing Code of 2000, the Michigan Drain Code of 1956, Michigan Act 451, and the Federal Clean Water Act provide the basic legal tools to implement the IDEP. Local ordinances effectively prohibit illicit connections and discharges; allow surveillance, monitoring, and inspections when needed; and provide enforcement authority and penalties.

An ordinance (or other regulatory mechanism where an ordinance is not feasible or appropriate) to effectively prohibit illicit discharges into the MS4 has been adopted by the following participating communities in the Lower Grand River Watershed (LGRW).

#### Participating Communities with an IDEP Ordinance

Community	Illicit Discharge and Connection Ordinance Adoption Date
Allendale Charter Township	May 10, 2004
Cascade Charter Township	June 23, 2004
East Grand Rapids, City of	September 19, 2005
Ferrysburg, City of	September 7, 2004
Georgetown Charter Township	August 12, 2002
Grand Haven, City of	February 5, 2007
Grand Rapids Charter Township	January 6, 2004
Grand Rapids, City of	July 2001
Grandville, City of	September 26, 2005
Hudsonville, City of	December 14, 2004
Kentwood, City of	October 24, 2004
Kent County Administration and Drain Commissioner	Regulatory mechanism in place
Kent County Road Commission	Regulatory mechanism in place
Plainfield Charter Township	November 6, 2000
Rockford, City of	August 8, 2005
Sparta, Village of	September 13, 2004
Spring Lake, Village of	January 16, 2006
Walker, City of	March 28, 2003
Wyoming, City of	October 3, 2005

Each ordinance or other regulatory mechanism:

- Regulates the contribution of pollutants to the MS4, owned by the permittee.
- Prohibits illicit discharges, including the direct dumping or disposal of materials, into the MS4, owned by the permittee.
- Establishes the authority to investigate, inspect, and monitor suspected illicit discharges into the MS4, owned by the permittee.
- Requires elimination of illicit discharges and connections into the MS4, owned by the permittee.

The Kent County Road Commission (KCRC) and the Kent County Drain Commissioner (KCDC) do not have ordinance authority; however, both agencies have regulatory mechanisms to address illicit discharges.

The KCDC has broad authority to control water pollution in county drains provided by the state Drain Code of 1956. The following are pertinent excerpts.

The Michigan Drain Code states:

*Sec. 423. (1) A person shall not continue to discharge or permit to be discharged into any county drain or intercounty drain of the state any sewage or waste matter capable of producing in the drain detrimental deposits, objectionable odor nuisance, injury to drainage conduits or structures, or capable of producing such pollution of the waters of the state receiving the flow from the drains as to injure livestock, destroy fish life, or be injurious to public health.*

*(10) Failure to comply with any of the provisions of this section subjects the offender to the penalties described in section 602.*

*Sec. 602. If any person shall willfully or maliciously remove any section or grade stake set along the line of any drain, or obstruct or injure any drain, he shall be deemed guilty of a misdemeanor, and upon conviction thereof shall be punished by a fine not exceeding \$100.00 and the costs of prosecution, or in default of the payment thereof, by imprisonment in the county jail not exceeding 90 days.*

The KCRC has limited authority under state law to control water pollution in statutory road right-of-ways. When evidence of an illicit discharge to a KCRC ditch or drain is found, and voluntary correction is not forthcoming, the KCRC will contact the appropriate agency, depending on the nature of the illicit discharge, and work with the KCDC, Kent County Health Department, local unit of government, local policing authority and/or the Michigan Department of Environmental Quality (MDEQ) to require elimination. The MDEQ has broad authority to control pollution, either directly or indirectly, to waters of the state provided by Act 451 of 1994.

A summary of indicators typically used to detect certain illicit discharges is included in Appendix 1.

## 4.0      **OUTFALL AND DISCHARGE POINT MAPS AND LISTS**

Lists of outfalls and discharge points are kept updated, identifying the location of all outfalls and discharge points the permittee owns and the names of all surface waters of the state that receive stormwater runoff from an MS4. The lists include a discrete identification number, the name of the receiving water, identification as an outfall or discharge point, the latitude and longitude, and the prioritization given to that point for screening purposes. Newly discovered outfalls and discharge points will be identified in the Progress Report. A copy of the current list of outfalls and discharge points is included in Appendix 2.



## 5.0 TRAINING

Municipal employees, who, as part of their normal job responsibilities, may come into contact with or otherwise observe an illicit discharge or illicit connection, will receive training on recognition and reporting of illicit discharges and connections. This will be accomplished through the IDEP training as identified in Appendix 2D of the Stormwater Pollution Prevention Initiative (SWPPI). Examples of training mechanisms identified in the SWPPI include the review of a Water Pollution Report Form with employees for recording and reporting suspected illicit discharges and an article to be distributed to employees (Appendix 3).

Field personnel will be provided additional training prior to conducting Dry-Weather Screening. Training will include health and safety, documentation and reporting procedures, and visual and olfactory outfall screening procedures. This will be accomplished by hands-on training by a professional engineer or other qualified individual for the field personnel by spring 2013. Alternatively, train-the-trainer sessions will be conducted for each community followed by community training of field personnel, if desired. Additional training will be provided for activities associated with sampling, identifying, and eliminating the source of unauthorized discharges and illicit connections. This will be accomplished, where needed, by hands-on training for the field personnel or by training-the-trainer for each community as appropriate.

## 6.0 IDENTIFICATION AND ELIMINATION OF EXISTING ILLICIT DISCHARGES

The field work to identify and eliminate illicit discharges and illicit connections will be completed in three steps. The initial step involves *Locating Problem Areas* and will focus on dry-weather screening stormwater outfalls for evidence of illicit discharges. The process is illustrated in Figure 1. The second step will be *Finding the Source* of any illicit discharges and will involve tracing illicit discharges through the stormwater drainage system to the source of the discharge or the illicit connection. This process is illustrated in Figure 2. The final step consists of *Removing/Correcting Illicit Connections*, which will require facilities to disconnect illicit connections and may require enforcement pursuant to existing ordinances and follow-up inspections. Information and test results are recorded on a data sheet, included as Figure 3.

### 6.1 LOCATING PROBLEM AREAS

Locating the presence of unauthorized discharges will be conducted during the permit cycle using the following techniques:

- Priority areas for detecting non-stormwater discharges will be identified. All permitted outfalls and discharge points will be placed into one of the following priority groups.
  - **High Priority** - Outfalls to waters of the State within the Urbanized Areas that have a history of past illicit discharges, outfalls reported by the public as suspicious, outfalls in areas with a history of illegal dumping, and outfalls serving areas suspected of having illicit discharges.
  - **Medium-High Priority** - Outfalls to waters of the State within the Urbanized Areas that are not in the High Priority group.
  - **Medium Priority** - MS4 to MS4 discharge points within the Urbanized Areas that have a history of past illicit discharges and that serve areas suspected of having illicit discharges due to the land use activities.
  - **Medium-Low Priority** - Outfalls to waters of the State that are within the watershed boundary, but outside of the Urbanized Areas.
  - **Low Priority** - MS4 to MS4 discharge points, within the watershed boundary, that are not in the Medium priority group.

All High Priority and Medium-High Priority outfalls in Appendix 2 will receive dry-weather screening during the permit cycle. Medium, Medium-Low, and Low Priority outfalls and discharge points will be investigated upon reports of suspected illicit discharges.

- Preferably, dry-weather screening will not commence until at least 48 hours after any rainfall event, but may commence if less than 0.1 inch of rain occurred during the previous 48 hours. Optionally, the field crew will attempt to identify known legitimate dry-weather discharges prior to conducting the field work. Dry-weather screening of all outfalls and MS4-MS4 discharge points will be completed in accordance with the following, and as illustrated as a flowchart in Figure 1:
  - Locate outfall/discharge point, complete data sheet with site information.
  - If new outfall/discharge point, assign identification number and mark location on map
  - If flow apparent, test discharge with field kit for temperature, pH, ammonia, and surfactants, collect additional sample if necessary, and record flow information and test results on data sheet. Readily observable sources of flow to the storm sewer will be noted. For example, landscape irrigation may be misdirected onto impermeable surfaces or irrigation runoff may be entering the drainage system.
    - Assign follow-up prioritization
      - Immediate - report to appropriate agency when discharge found, agency to follow up within one week.
      - High - notify stormwater manager, follow up within 30 days.
      - Low - notify stormwater manager conduct visual observations within 3 months.
    - In follow-up visits, test flow again with field test kits. If test results still indicate follow up necessary, collect additional samples for lab analysis, if necessary, and follow steps in “Finding the Source” section below.
  - If no flow apparent, evaluate the areas for indicators of pollution, i.e. the presence of algae, unusual vegetative growth, staining, bacterial sheens, or debris.
    - If indicators show a sign that pollution may exist, assign follow-up prioritization.
      - Immediate - report to appropriate agency when discharge found, agency to follow up within one week to check for dry-weather flow.
      - High - notify stormwater manager; follow up within 30 days to check for dry-weather flow.
      - Low - notify stormwater manager, conduct visual observations within 3 months for dry-weather flow.
    - In follow-up visits, if flow present, test with field test kits. If test results indicate follow up necessary, collect additional samples for lab analysis, if necessary, and follow steps in “Finding the Source” section below. If no flow is present on immediate or high priority sites, proceed to steps in “Finding the Source” section below.
  - If no dry-weather flow is present and no indication that pollution may exist, close outfall file.
  - If the outfall is submerged or otherwise unsafe to approach, the next available and safe location upstream from the outfall will be screened.

- The results of the Dry-Weather Screening will be ranked according to the guide in Table 1 and then used to locate problem areas and prioritize the locations for finding the source:
  - **Immediate** - If, in the opinion of the field crew, immediate action to address the dry-weather flow is indicated, the field crew will inform the stormwater program manager, or the appropriate agency if health or safety is a concern, record the incident, and ensure that the agency investigates the site within one week. Table 2 is a list of the current stormwater program managers and their contact information.
  - **High** - If flow is present and test results indicate follow up is necessary, but it does not appear to be of immediate concern, the stormwater manager will be notified and follow-up will be pursued within 30 days. If flow is again present, field crews will use field test kits to confirm results, and begin conducting dry-weather screening at accessible points upstream of the discharge until a potential source is found.
  - **Low** - If flow is present but test results indicate the discharge is most likely exempt, (groundwater for example), the site will be observed within 3 months to determine if conditions have changed and repeat testing is warranted.
  - **None** - No follow-up is needed.
- A field form will document the results of outfall screening and testing. A copy of the form is included as Figure 3. A separate form will be utilized for each visit.
- Any new or additional stormwater outfalls or discharge points will be reported in the next Progress Report.
- An illicit discharge reporting process (telephone, email, or other method) has been implemented. A system to log reports, assign them for follow-up, and document results of investigations is included in the process. Experience has shown that the most reliable reports come from municipal personnel; however, this reporting process has been coordinated with the Public Education Plan (PEP) in order to encourage the public to observe and notify county or local governmental units when illegal dumping or illicit discharges are suspected. The Community Reporting Forms are included in Appendix 3.
- Each community's schedule for completing the dry-weather screening will be consistent with the screening priority identification of their outfalls and discharge points as identified in Appendix 2.

## 6.2 FINDING THE SOURCE

The field investigation necessary to find the source of illicit discharges will be completed based on the results of the efforts in *Locating Problem Areas*. The process is illustrated in a flowchart in Figure 2.

Sites identified during the initial investigation that pose a significant and immediate health or environmental problem (immediate priority) will be brought to the attention of the community's stormwater program manager (Table 2), at the time the discharge is detected, and the appropriate agency or department; such as the Kent or Ottawa County Health Department, an adjacent community, or the MDEQ. That appropriate agency may provide useful information or assistance for the follow-up investigation within one week. Additional sample collection and laboratory analysis for parameters such as, fluoride, copper, phosphorus, ammonia, nitrite, nitrate, and *E. coli* will be considered, depending on the land use and suspected source of the illicit discharge.

The process for tracing illicit discharges that do not pose a significant and immediate health or environmental problem (high priority) to their source will be based on factors such as whether the area is known to have high bacteria problems or vulnerability to bacterial contamination, significant industrial or commercial development, dense housing without sanitary sewer connections, public notification or complaints, and the sensitivity of the receiving stream.

The exact procedure for tracking the illicit discharge will depend on the particular facts of each incident. Generally, if the discharge can be tracked by direct visual observation, the responsible party will be contacted and required to eliminate the discharge. If the source is not obvious, then manhole to manhole observations will be made to identify the source until the responsible party is identified and contacted.

If the source is still not identified through upstream investigations, more sophisticated means will be utilized such as:

- Televising the storm sewers or dye testing premises in the vicinity of a suspected illicit connection.
- Investigation of permissible point sources located upstream of outfalls with documented dry-weather flow.
- Investigation of complaints, reports, or notification of suspected illicit discharges.
- Distribution of letters to residents and businesses alerting them to the problem that is under investigation and soliciting their assistance in finding the source of an illicit discharge.
- A building-by-building evaluation where a potential illicit connection has been isolated to a small area.

If a low priority outfall was found to have similar test results in 3 months, the stormwater program manager will follow the steps outlined above to find the source and determine if the source of flow is exempt or requires the responsible party to be notified and the discharge eliminated.

If the source of an illicit discharge is traced to an MS4 owned by another permittee, the upstream stormwater program manager will be notified within one week of detection unless the severity of the discharge warrants immediate action. The stormwater program managers of all participating communities of the LGRW that own discharge points that enter another MS4 have agreed to coordinate tracking and eliminating illicit discharges in these situations. The agreement is included as Appendix 4. Notification will

consist of a phone call or email to the upstream MS4 stormwater program manager. The notification will include identifying the date and location where the suspected illicit discharge was detected and any other information about the discharge that will assist with the identification of its source. The notification will be recorded and supplemented by transmittal of the IDEP Dry-Weather Screening Data Sheet. The upstream MS4 stormwater program manager will then process the following steps outlined above.

The continuous communication between the community's stormwater program manager, the field crew, and other agencies during the investigation will ensure appropriate and timely actions are taken to find the source of an illicit discharge.

### **6.3 REMOVING/CORRECTING ILLICIT DISCHARGES AND CONNECTIONS**

Those responsible for illicit connections will be notified to correct the problem. The property owner will be required to implement appropriate best management practices (BMPs) to eliminate the potential for illicit discharges, according to the community's ordinance or regulatory mechanism. A follow-up inspection will be conducted to ensure the correction is satisfactorily completed. Persons responsible for illicit discharges, including spill or dumping incidents, will be investigated and required to pursue reasonable clean-up. Where appropriate, they will be required to demonstrate taking measures to ensure that similar incidents will not occur. All illicit discharges should be eliminated as soon as practical taking into consideration the pollution potential of the discharge, the cost of elimination, and the measures needed to eliminate the discharge. Appropriate fines, penalties, and litigation will be considered.

## 7.0 MINIMIZING SEEPAGE FROM SEPTIC SYSTEMS AND SANITARY SEWERS

Each community will coordinate its IDEP with the local health department to assist in mitigating problems with failing OSDS. An OSDS found during the implementation of the IDEP to be infiltrating into a MS4 will be referred to the local health department.

A formal complaint is recorded when the local health department is informed that a septic system is in a state of failure. The field sanitarian responsible for that area visits the site to verify the condition of the septic system. The homeowner is ordered to pump the septic tanks, apply for a septic permit, and correct the situation in a timely manner if a public health hazard is determined to exist. Failure to comply with an order from the local health department can result in monetary penalties and/or condemnation of the dwelling as unfit for human habitation. The property owner will be encouraged to connect to the sanitary sewer where feasible. If sanitary sewers are not available, short- and long-term solutions for sewage disposal will be determined.

Each community will continue to conduct a preventative maintenance program on its wastewater collection and stormwater systems according to their SWPPIs. The maintenance may involve routine cleaning and/or television inspections that provide good assessments of pipe conditions and locates sites needing repairs. Each community will correct any sanitary system deficiencies identified in order to minimize exfiltration and seepage of sewage into the groundwater or stormwater drainage system. The potential for seepage from sanitary sewers into the stormwater drainage system will be investigated in the process of *Finding the Source* of illicit discharges. Sanitary sewer overflows (SSOs) or cross connections to a storm sewer will be corrected as soon as possible or in accordance with a state compliance action.

NOTE: Some communities rely on others for sewerage services and have little direct control over their operation and maintenance.

## 8.0 SPILL RESPONSE PROCEDURES

Reports by the public or municipal personnel of spills or suspicious discharges will be pursued by trained individuals. Persons responsible for illicit discharges, including spill or dumping incidents, will be investigated and compelled to pursue reasonable clean-up. Where appropriate, they will be required to demonstrate taking measures to ensure similar incidents will not occur. Appropriate fines, penalties, and litigation will be considered.

If a spill or suspicious discharge is found or reported, the stormwater program manager will be notified and initial information will be gathered. Records will be maintained regarding the incident from the first report to resolution. The Community Reporting Form is included in Appendix 3. Based on the initial information the stormwater coordinator will assess the severity of the situation. All reports will be considered an emergency until it is determined to be a non-emergency. Therefore, the Emergency Procedure will be implemented until the stormwater program manager determines that the incident is a non-emergency, at which point the Non-Emergency Procedure will be implemented.

The MDEQ supports the appropriate participation of its employees in emergency response activities for the purpose of protecting public health and the environment. In general, the MDEQ employees do not serve as "first responder" personnel. Rather, the MDEQ staff serve as technical consultants to, and coordinate their activity with, an on-scene incident commander, usually the local fire chief and/or a responsible party. Staff may serve as technical consultants either at the site of the emergency or by telephone or other means of communication.

### Emergency Procedure

- 1) Is public safety at immediate risk? If yes, notify law enforcement and report to National Response Center.
- 2) Notify and solicit aid from other nearby or affected agencies, e.g. County Drain Commissioner and Road Commission. Engage Environmental Response Contractor, if needed.
- 3) If caused by Municipal Operations, report to the MDEQ District Office or Pollution Emergency Alert System (PEAS) if afterhours. If it is a Part 5 Rules material (oil causing visible sheen or >50 pounds of salt or listed pollutants over certain amounts) also report to 9-1-1.
- 4) If consistent with personnel safety, attempt to track the spill to its source. Gather more detailed and accurate information. Engage the responsible party. Attempt to persuade responsible party to take primary responsibility for preventing further damage and to initiate clean-up.
- 5) Attempt to stop the discharge through cooperation with responsible party or by utilizing internal resources or environmental response contractor.
- 6) Attempt to block the flow of pollutants to prevent further damage and to facilitate capture of spilled material.
- 7) Consider environmental monitoring to measure damage.



- 8) Clean up spilled material. Dispose as hazardous waste or liquid industrial waste.
- 9) Prepare written report to the MDEQ District Office within 10 days. Send a copy to the local health department.
- 10) Consider requiring the responsible party to implement procedures or to install facilities to ensure the incident does not occur again.
- 11) Consider civil and/or criminal actions.

**Important Phone Numbers**

MDEQ Grand Rapids District Office - (616) 356-0500  
 MDEQ PEAS - 1-800-292-4706 (calls from out-of-state - 1-517-373-7660)  
 National Response Center - 1-800-424-8802 or [www.nrc.uscg.mil/nrchp.html](http://www.nrc.uscg.mil/nrchp.html)  
 Kent County Drain Commissioner - (616) 336-3688  
 Ottawa County Drain Commissioner - (616) 994-4530

**Potential Environmental Response Contractors**

(Inclusion here does not imply any approval or any endorsement or qualifications; contacts are provided for convenience in an emergency only. Communities are encouraged to select a contractor before an emergency situation occurs.)

Young's Environmental Cleanup, Inc. Grand Rapids Area Office 4990 West River Drive, NE Comstock Park, MI 49321 Phone: (616) 785-3374 Fax: (616) 785-3401 24 hr: 1-800-4Youngs (496-8647) <a href="http://www.youngsenvironmental.com/">http://www.youngsenvironmental.com/</a>	Plummer's Environmental Services, Inc. 10075 Sedroc Industrial Drive Byron Center, MI 49315 Toll Free: 1-800-878-3996 Office: 1-616-877-3930 Fax: 1-616-877-3937 <a href="http://www.plummersenvironmental.com/index.aspx">www.plummersenvironmental.com/index.aspx</a>
K&D Industrial Services, Inc. Corporate Offices Romulus, MI 48174 (734) 722-8922 Fax: (734) 729-8220 Grand Rapids Branch 2629 Prairie Road Wyoming, MI 49519 (616) 784-8900 Fax: (616) 534-5782 <a href="http://kdigroup.com/">http://kdigroup.com/</a>	Valley City Environmental Service 1040 Market Avenue, SW Grand Rapids, MI (616) 235-1500 Fax (616) 235-9507 24 hr Emergency Spill Response Numbers Please call 800.678.7035 / 616.235.1500 <a href="http://www.valleycityes.com/">http://www.valleycityes.com/</a>

**Non-Emergency Procedure**

- 1) Determine a level of urgency based on the nature of the spill and likely impact on health, safety, and environment.
- 2) If consistent with personnel safety, attempt to track the spill to its source. Gather more detailed and accurate information. Engage the responsible party. Attempt to persuade responsible party to take primary responsibility for preventing further damage and to initiate clean-up.
- 3) Report to the MDEQ District Office, or PEAS if after business hours.
- 4) Determine if internal resources are sufficient or if an Environmental Response Contractor is needed.
- 5) Attempt to stop the discharge through cooperation with responsible party or by utilizing internal resources or environmental response contractor.
- 6) Attempt to block the flow of pollutants to prevent further damage and to facilitate capture.
- 7) Clean up spilled material. Dispose as hazardous waste or liquid industrial waste.
- 8) Prepare written report to the MDEQ District Office within 10 days.
- 9) Consider requiring the responsible party to implement procedures or to install facilities to ensure the incident does not occur again.

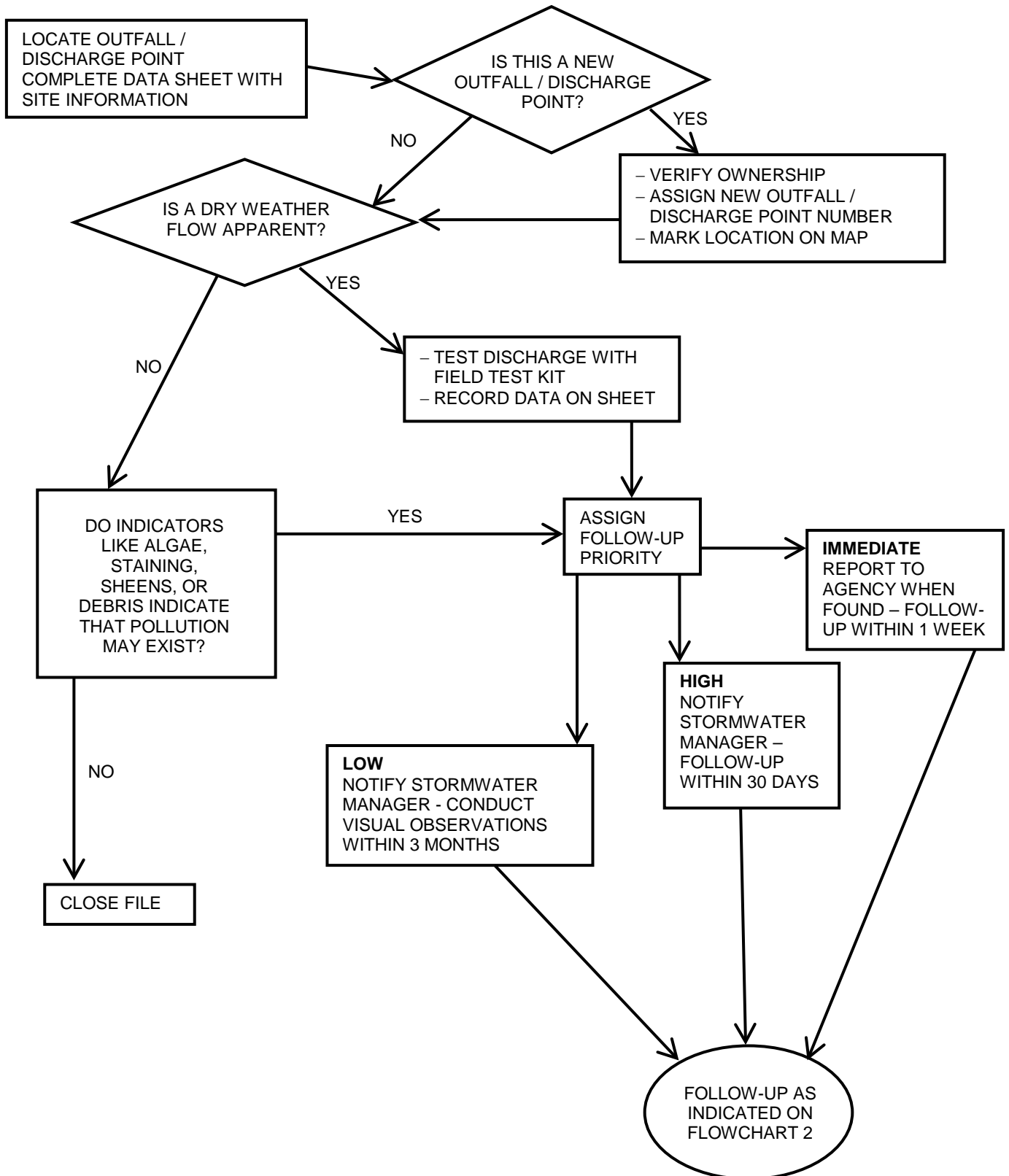
## 9.0 DOCUMENTATION AND REPORTING

Progress Reports will be submitted to the MDEQ on the implementation status of the IDEP. The report will cover all of the decisions, actions, and results performed as part of the IDEP during the previous reporting period. The Progress Report will include:

- Documentation of actions taken to eliminate illicit discharges.
- For significant illicit discharges, a list of pollutants of concern, the estimated volume and load discharged, and the locations of the discharge into both the separate storm sewer system and the receiving water.
- The status of the program to minimize seepage from sanitary sewers and OSDS into the separate storm sewer system.
- Updated outfall mapping.
- A schedule for elimination of illicit connections that have been identified, but have yet to be eliminated.
- An evaluation of the effectiveness of the IDEP program. The evaluation will include:
  - An evaluation of the effectiveness of the detection methods used based on the number of illicit discharges detected.
  - An estimated quantification of the number of discharges prevented or eliminated.
  - An estimated quantification of the volume of illicit flow eliminated.
  - An assessment of the effectiveness of the program overall.

The goal of the program is to have a drainage system with no illicit discharges.

# Figures



**FIGURE 1: LOCATING PROBLEM AREAS**

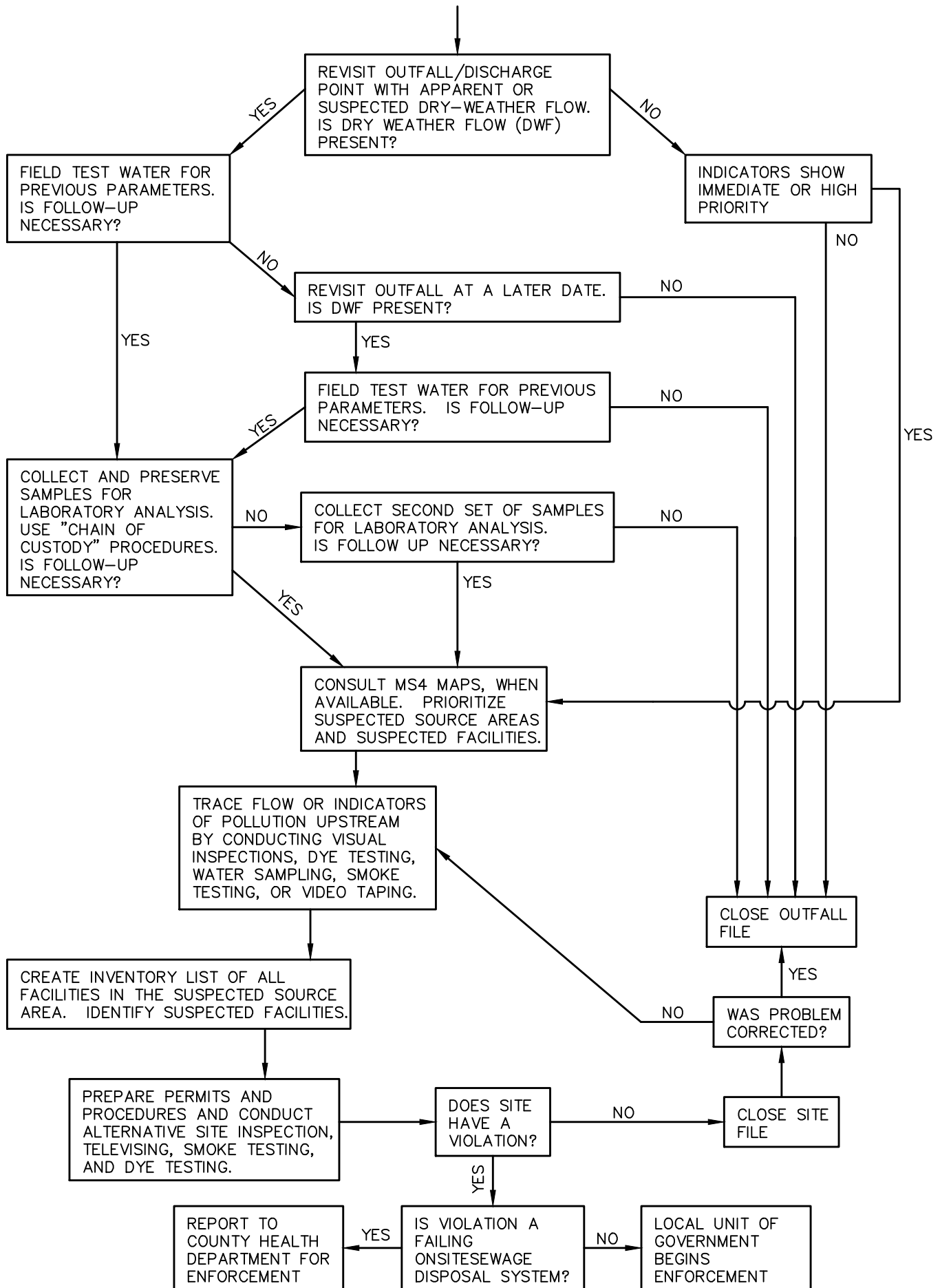


FIGURE 2: FINDING THE SOURCE

# IDEP DRY WEATHER SCREENING DATA SHEET



**GENERAL**

**Outfall ID**

Date \_\_\_\_\_ Time \_\_\_\_\_ Air Temp \_\_\_\_\_ °F Receiving Water \_\_\_\_\_  
 Crew Name \_\_\_\_\_ Date of Last Rain \_\_\_\_\_  Clear/Sunny  
 Photograph # \_\_\_\_\_  Partly Cloudy  
 GPS Coordinates \_\_\_\_\_ °N \_\_\_\_\_ °W (decimal degrees)  Overcast

**TYPE OF OUTFALL**

**Material & Size**

(in) Concrete  (in) PVC  
 (in) RCP  (in) Metal  
 (in) CMP  (in) Clay  
 (in) CPP  (ft) Ditch  
 (in) Other-describe below \_\_\_\_\_

**Condition**

Like New  
 Good  
 Broken  
 Impaired

**Flow Observations**

(in) Depth of flow in outfall  
 Standing water in pipe, no flow  
 Trace, insufficient to quantify  
 Dry, no water present

If evidence of Illicit Connection, describe below \_\_\_\_\_

**FLOW OBSERVATIONS (skip if no water present in outfall)**

**Odor**  None  Musty  Sewage  Rotten Egg  Gasoline  Oil  Other\*\*  
**Color**  Clear  Light Brown  Dark Brown  Green  Grey  Black  Other\*\*  
**Turbidity**  Clear  Slightly  Moderate  Highly  Opaque  Other\*\*  
**Floatables**  None  Trash  Sewage  Foam  Oil Sheen  Other\*\*

**OUTFALL AREA OBSERVATIONS**

**Deposits/Stains**  None  Mineral  Sediment  Oily  Grease  Other\*\*  
**Vegetation**  None  Normal  Excessive  Algae  Other\*\*  
**Debris**  None  Tissue  Other\*\*  
 \*\*If Other, include comments \_\_\_\_\_

**OTHER OBSERVATIONS NEAR OUTFALL**

**Pollution Source**  Debris/Trash  Construction Runoff  Road Crossing  
 Septic System  Streambank Erosion  Gully Erosion  
 Upland Source  Tile Outlet  Other\*\*  
**Stream Bottom**  Cobble/Gravel  Sand (coarse)  Muck/Silt (fine)  
 Hardpan (solid clay)  Artificial  Other\*\*  
 \*\*If Other, include comments \_\_\_\_\_

**FIELD TEST KIT ANALYSES**

Parameter	Value	Units
pH	_____	SU
Surfactants	_____	H, M, L, or None
Ammonia	_____	mg/L
Temperature	_____	°F

**OTHER ANALYSES**

Parameter	Value	Units	Parameter	Value	Units
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

**Follow Up**  None  High Priority  Other - explain \_\_\_\_\_  
 Low Priority  Immediate \_\_\_\_\_ Additional information on attached sheet

**Comments**

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Check if more comments are on the back

**Figure 2**

# Tables



**Table 1 - Field Testing Results Evaluation Guidelines**

Parameter	Test Range	None	Low	High	Immediate
Temperature °F	32-100	44 - 75	40 - 43 or 76 - 85	32 - 39 or 86 - 99	<32 or >100
pH	0-14	6 - 9.5	5 - 6 or 9.5 - 10.5	4 - 5 or 10.5 - 11	<4 or >11
Surfactants	detect presence	none	low or medium	high	
Ammonia ppm	0-6	0 - 1	1 - 3	3 - 6	>6

**Table 2 – Storm Water Program Managers**

<b>Permittee</b>	<b>Storm Water Program Manager</b>	<b>Telephone Email</b>
Allendale Charter Township	Mr. Jerry Alkema, Township Supervisor	(616) 895-6295 ext. 12 jerryalkema@allendale-twp.org
Cascade Charter Township	Mr. Steve Peterson Township Planner	(616) 949-1500 speterson@cascadetwp.com
East Grand Rapids, City of	Mr. Ken Feldt, Public Works Director	(616) 940-4817 kfeldt@eastgr.org
Ferrysburg, City of	Mr. Craig Bessinger, City Manager	(616) 842-5803 cbessinger@ferrysburg.org
Forest Hills Public Schools	Mr. Ron Boezwinkle, Director of Operations	(616) 493.8780 rboezwin@fhps.net
Georgetown Charter Township	Mr. Mike Hatkowski, Operations Coordinator	(616) 662-2800 mhatkowski@georgetown-mi.gov
Grand Haven, City of	Mr. William Hunter, Director of Public Works	(616) 855-5809 bhunter@grandhaven.org
Grand Rapids Charter Township	Mr. RJ Versluys Deputy Chief	(616) 361-7391 bversluys@grandrapidstwp.org
Grand Rapids, City of	Ms. Carrie Rivette Project Engineer	(616) 456-3057 crivette@grcity.us
Grandville, City of	Mr. Ron Carr, Director of Public Works	(616) 538-1990 carr@cityofgrandville.com
Hudsonville, City of	Mr. Dutch Besteman, Public Works Superintendent	(616) 669-0200 ext. 1424 dbestema@hudsonville.org
Kent County Drain Commissioner and Admin.	Mr. Douglas Spote, Deputy Drain Commissioner	(616) 336-3688 Doug.Spote@Kentcountymi.gov
Kent County Road Commission	Mr. Wayne Harrall, Director of Engineering	(616) 242-6914 wharrall@kentcountyroads.net
Kentwood, City of	Mr. Ronald Woods, Director of Public Works	(616) 554-0824 woods@ci.kentwood.mi.us
Plainfield Charter Township	Mr. Rick Solle, Director of Public Services	(616) 363-9660 soller@plainfieldchartertp.org
Rockford, City of	Mr. Jamie Davies, Public Services Director	616-893-0938 jdavies@rockford.mi.us
Sparta, Village of	Mr. Miles Ring, DPW Superintendent	(616) 262-7901 dpwdept@spartami.org
Spring Lake, Village of	Ms. Chris Burns Village Manager	(616) 842-1393 ext. 1002 christine@springlakevillage.org
Walker, City of	Ms. Bonnie Broadwater, Engineering Programs Coordinator	(616) 791-6327 bbroadwa@ci.walker.mi.us
Wyoming, City of	Mr. Aaron Vis, Environmental Services Inspector	(616) 261-3593 avis@wyomingmi.gov

# Appendix 1

# Appendix 1

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Excerpts from  
Illicit Discharge Detection and Elimination - A Guidance Manual for Program  
Development and Technical Assessments  
By Edward Brown and Deb Caraco, Center for Watershed Protection, Ellicott City,  
Maryland 21043  
and Robert Pitt, University of Alabama, Tuscaloosa, Alabama 35487  
October 2004

## Ammonia

Ammonia is a good indicator of sewage, since its concentration is much higher there than in groundwater or tap water. High ammonia concentrations may also indicate liquid wastes from some industrial sites. Ammonia is relatively simple and safe to analyze. Some challenges include the tendency for ammonia to volatilize (i.e., turn into a gas and become non-conservative) and its potential generation from non-human sources, such as pets or wildlife.

## Boron

Boron is an element present in the compound borax, which is often found in detergent and soap formulations. Consequently, boron is a good potential indicator for both laundry wash water and sewage. Preliminary research from Alabama supports this contention, particularly when it is combined with other detergent indicators, such as surfactants (Pitt, IDDE Project Support Material). Boron may not be a useful indicator everywhere in the country since it may be found at elevated levels in groundwater in some regions and is a common ingredient in water softeners products. Program managers should collect data on boron concentrations in local tap water and groundwater sources to confirm whether it will be an effective indicator of illicit discharges.

## Chlorine

Chlorine is used throughout the country to disinfect tap water, except where private wells provide the water supply. Chlorine concentrations in tap water tend to be significantly higher than most other discharge types. Unfortunately, chlorine is extremely volatile, and even moderate levels of organic materials can cause chlorine levels to drop below detection levels. Because chlorine is non-conservative, it is not a reliable indicator, although if very high chlorine levels are measured, it is a strong indication of a water line break, swimming pool discharge, or industrial discharge from a chlorine bleaching process.

## Color

Color is a numeric computation of the color observed in a water quality sample, as measured in cobalt-platinum units (APHA, 1998). Both industrial liquid wastes and sewage tend to have elevated color values. Unfortunately, some "clean" flow types can also have high color values. Field testing by Pitt (IDDE Project Support Material) found high color values associated for all contaminated flows, but also many uncontaminated flows, which yielded numerous false

positives. Overall, color may be a good first screen for problem outfalls, but needs to be supplemented by other indicator parameters.

### Conductivity

Conductivity, or specific conductance, is a measure of how easily electricity can flow through a water sample. Conductivity is often strongly correlated with the total amount of dissolved material in water, known as Total Dissolved Solids. The utility of conductivity as an indicator depends on whether concentrations are elevated in “natural” or clean waters. In particular, conductivity is a poor indicator of illicit discharge in estuarine waters or in northern regions where deicing salts are used (both have high conductivity readings). Field testing in Alabama suggests that conductivity has limited value to detect sewage or wash water (Pitt, IDDE Project Support Material). Conductivity has some value in detecting industrial discharges that can exhibit extremely high conductivity readings. Conductivity is extremely easy to measure with field probes, so it has the potential to be a useful supplemental indicator in subwatersheds that are dominated by industrial land uses.

### Detergents

Most illicit discharges have elevated concentration of detergents. Sewage and washwater discharges contain detergents used to clean clothes or dishes, whereas liquid wastes contain detergents from industrial or commercial cleansers. The nearly universal presence of detergents in illicit discharges, combined with their absence in natural waters or tap water, makes them an excellent indicator. Research has revealed three indicator parameters that measure the level of detergent or its components-- surfactants, fluorescence, and surface tension (Pitt, IDDE Project Support Material). Surfactants have been the most widely applied and transferable of the three indicators. Fluorescence and surface tension show promise, but only limited field testing has been performed on these more experimental parameters. Methods and laboratory protocols for each of the three detergent indicator parameters are reviewed in Appendix F2.

### *E. coli*, Enterococci and Total Coliform

Each of these bacteria is found at very high concentrations in sewage compared to other flow types, and is a good indicator of sewage or septage discharges, unless pet or wildlife sources exist in the subwatershed. Overall, bacteria are good supplemental indicators and can be used to find “problem” streams or outfalls that exceed public health standards. Relatively simple analytical methods are now available to test for bacteria indicators, although they still suffer from two monitoring constraints. The first is the relatively long analysis time (18-24 hours) to get results, and the second is that the waste produced by the tests may be classified as a biohazard and require special disposal techniques.

### Fluorescence

Laundry detergents are highly fluorescent because optical brighteners are added to the formula to produce “brighter whites.” Optical brighteners are the reason that white clothes appear to have a bluish color when placed under a fluorescent light. Fluorescence is a very sensitive indicator of the presence of detergents in discharges, using a fluorometer to measure fluorescence at specific wavelengths of light. Since no chemicals are needed for testing, fluorometers have minimal safety and waste disposal concerns. Some technical concerns do limit the utility of fluorescence as an indicator of illicit discharges. The concerns include the presence of fluorescence in non-illicit flow types such as irrigation water, the considerable variation of fluorescence between different detergent brands, and the lack of a readily standard or benchmark concentration for

optical brighteners. For example, Pitt (IDDE Project Support Material) measured fluorescence in mg/L of Tide™ brand detergent, and found the degree of fluorescence varied regionally, temporally, and between specific detergent formulations. Given these current limitations, fluorescence is best combined with other detergent indicators such as surfactants. Appendix F3 should be consulted for more detailed information on analytical methods and experimental field testing using fluorescence as an indicator parameter.

### Fluoride

Fluoride is added to drinking water supplies in most communities to improve dental health, and normally found at a concentration of two parts per million in tapwater. Consequently, fluoride is an excellent conservative indicator of tap water discharges or leaks from water supply pipes that end up in the storm drain. Fluoride is obviously not a good indicator in communities that do not fluoridate drinking water, or where individual wells provide drinking water. One key constraint is that the reagent used in the recommended analytical method for fluoride is considered a hazardous waste, and must be disposed of properly.

### Hardness

Hardness measures the positive ions dissolved in water and primarily include magnesium and calcium in natural waters, but are sometimes influenced by other metals. Field testing by Pitt (IDDE Project Support Material) suggests that hardness has limited value as an indicator parameter, except when values are extremely high or low (which may signal the presence of some liquid wastes). Hardness may be applicable in communities where hardness levels are elevated in groundwater due to karst or limestone terrain. In these regions, hardness can help distinguish natural groundwater flows present in outfalls from tap water and other flow types.

### pH

Most discharge flow types are neutral, having a pH value around 7, although groundwater concentrations can be somewhat variable. pH is a reasonably good indicator for liquid wastes from industries, which can have very high or low pH (ranging from 3 to 12). The pH of residential wash water tends to be rather basic (pH of 8 or 9). The pH of a discharge is very simple to monitor in the field with low cost test strips or probes. Although pH data is often not conclusive by itself, it can identify problem outfalls that merit follow-up investigations using more effective indicators.

### Potassium

Potassium is found at relatively high concentrations in sewage, and extremely high concentrations in many industrial process waters. Consequently, potassium can act as a good first screen for industrial wastes, and can also be used in combination with ammonia to distinguish wash waters from sanitary wastes. (See Chapter 12). Simple field probes can detect potassium at relatively high concentrations (5 mg/L), whereas more complex colorimetric tests are needed to detect potassium concentrations lower than 5 mg/L.

### Surface Tension

Surfactants remove dirt particles by reducing the surface tension of the bubbles formed in laundry water when it is agitated. Reduced surface tension makes dirt particles less likely to settle on a solid surface (e.g., clothes or dishes) and become suspended instead on the water's surface. The visible manifestation of reduced surface tension is the formation of foam or bubbles on the water surface. Pitt (IDDE Project Support Material) tested a very simple procedure to

measure surface tension that quantifies the formation of foam and bubbles in sample bottles. Initial laboratory tests suggest that surface tension is a good indicator of surfactants, but only when they are present at relatively high concentrations. Section F3 provides a more detailed description of the surface tension measurement procedure.

### Surfactants

Surfactants are the active ingredient in most commercial detergents, and are typically measured as Methyl Blue Active Substances (or MBAS). They are a synthetic replacement for soap, which builds up deposits on clothing over time. Since surfactants are not found in nature, but are always present in detergents, they are excellent indicators of sewage and wash waters. The presence of surfactants in cleansers, emulsifiers and lubricants also makes them an excellent indicator of industrial or commercial liquid wastes. In fact, research by Pitt (IDDE Project Support Material) found that detergents were an excellent indicator of “contaminated” discharges in Alabama (i.e., discharges that were not tap water or groundwater). Several analytical methods are available to monitor surfactants. Unfortunately, the reagents used involve toluene, chloroform, or benzene, each of which is considered hazardous waste with a potential human health risk. The most common analysis method uses chloroform as a reagent, and is recommended because it is relatively safer when compared to other reagents.

### Turbidity

Turbidity is a quantitative measure of cloudiness in water, and is normally measured with a simple field probe. While turbidity itself cannot always distinguish between contaminated flow types, it is a potentially useful screening indicator to determine if the discharge is contaminated (i.e., not composed of tap water or groundwater).

**Table 39: Indicator Parameters Used to Detect Illicit Discharges**

Parameter	Discharge Types It Can Detect				Laboratory/Analytical Challenges
	Sewage	Washwater	Tap Water	Industrial or Commercial Liquid Wastes	
Ammonia	●	⊙	○	⊙	Can change into other nitrogen forms as the flow travels to the outfall
Boron	⊙	⊙	○	N/A	
Chlorine	○	○	○	⊙	High chlorine demand in natural waters limits utility to flows with very high chlorine concentrations
Color	⊙	⊙	○	⊙	
Conductivity	⊙	⊙	○	⊙	Ineffective in saline waters
Detergents – Surfactants	●	●	○	⊙	Reagent is a hazardous waste
<i>E. coli</i> Enterococci Total Coliform	⊙	○	○	○	24-hour wait for results Need to modify standard monitoring protocols to measure high bacteria concentrations
Fluoride*	○	○	●	⊙	Reagent is a hazardous waste Exception for communities that do not fluoridate their tap water
Hardness	⊙	⊙	⊙	⊙	
pH	○	⊙	○	⊙	
Potassium	⊙	○	○	●	May need to use two separate analytical techniques, depending on the concentration
Turbidity	⊙	⊙	○	⊙	

● Can almost always (>80% of samples) distinguish this discharge from clean flow types (e.g., tap water or natural water). For tap water, can distinguish from natural water.  
 ⊙ Can sometimes (>50% of samples) distinguish this discharge from clean flow types depending on regional characteristics, or can be helpful in combination with another parameter  
 ○ Poor indicator. Cannot reliably detect illicit discharges, or cannot detect tap water  
 N/A: Data are not available to assess the utility of this parameter for this purpose.  
 Data sources: Pitt (this study)  
 \*Fluoride is a poor indicator when used as a single parameter, but when combined with additional parameters (such as detergents, ammonia and potassium), it can almost always distinguish between sewage and washwater.



# Appendix 2

## Rockford Outfalls and Discharge Points

2018

Outfall ID#	Point of Discharge	Latitude	Longitude	Priority	Outfall or Discharge Point	Ultimate Outfall
7002	Waters of the State	43.1193254	-85.5784637	Medium High	Outfall	Wetland
2001	Waters of the State	43.1277262	-85.55994133	Medium High	Outfall	Rogue River
3022	Waters of the State	43.12946943	-85.55570181	Medium High	Outfall	Unnamed Stream
3023	Waters of the State	43.12338542	-85.55959319	Medium High	Outfall	Rum Creek
3009	Waters of the State	43.13012376	-85.5544966	Medium High	Outfall	Unnamed Stream
3018	Waters of the State	43.12345092	-85.55960049	Medium High	Outfall	Rum Creek
3017	Waters of the State	43.12345981	-85.55949432	Medium High	Outfall	Rum Creek
3007	Waters of the State	43.13646141	-85.55557845	Medium High	Outfall	Rogue River
7008	Waters of the State	43.12224929	-85.57126959	Medium High	Outfall	Unnamed Stream
3012	Waters of the State	43.12402737	-85.55811128	Medium High	Outfall	Rum Creek
3001	Waters of the State	43.12323783	-85.55146745	Medium High	Outfall	Rum Creek
7004	Waters of the State	43.12001189	-85.57736437	Medium High	Outfall	Wetland
4002	Waters of the State	43.11716357	-85.56145214	Medium High	Outfall	Rogue River
6002	Waters of the State	43.12610848	-85.54597597	Medium High	Outfall	Wetland
4001	Waters of the State	43.12013101	-85.56171169	Medium High	Outfall	Rogue River
3021	Waters of the State	43.12924611	-85.55598485	Medium High	Outfall	Unnamed Stream
3020	Waters of the State	43.14281226	-85.55629912	Medium High	Outfall	Shaw Creek
7009	Waters of the State	43.12204527	-85.5709785	Medium High	Outfall	Unnamed Stream
4007	Waters of the State	43.12032915	-85.56239112	Medium High	Outfall	Rogue River
7007	Waters of the State	43.11986839	-85.57026519	Medium High	Outfall	Wetland
4006	Waters of the State	43.1139143	-85.56023719	Medium High	Outfall	Rogue River
4004	Waters of the State	43.12092423	-85.56146239	Medium High	Outfall	Rogue River
3024	Waters of the State	43.12344392	-85.55970125	Medium High	Outfall	Rum Creek
6001	Waters of the State	43.14349284	-85.5504051	Medium High	Outfall	Shaw Creek
7006	Waters of the State	43.12125487	-85.57788616	Medium High	Outfall	Wetland
1002	Waters of the State	43.11164763	-85.56836871	Medium High	Outfall	Unnamed Stream
3008	Waters of the State	43.13299769	-85.55704349	Medium High	Outfall	Rogue River
3003	Waters of the State	43.12324307	-85.55244958	Medium High	Outfall	Rum Creek
3019	Waters of the State	43.12155163	-85.56149096	Medium High	Outfall	Rogue River
3004	Waters of the State	43.12334342	-85.5521238	Medium High	Outfall	Rum Creek
3015	Waters of the State	43.12394939	-85.55811284	Medium High	Outfall	Rum Creek

<b>Outfall ID#</b>	<b>Point of Discharge</b>	<b>Latitude</b>	<b>Longitude</b>	<b>Priority</b>	<b>Outfall or Discharge Point</b>	<b>Ultimate Outfall</b>
2003	Waters of the State	43.13073466	-85.56073933	Medium High	Outfall	Rogue River
7001	Waters of the State	43.11952497	-85.58042541	Medium High	Outfall	Wetland
4003	Waters of the State	43.11277362	-85.56059633	Medium High	Outfall	Rogue River
3010	Waters of the State	43.13031007	-85.5510315	Medium High	Outfall	Unnamed Stream
7005	Waters of the State	43.11759392	-85.57372273	Medium High	Outfall	Uknown
2004	Waters of the State	43.12938537	-85.55987213	Medium High	Outfall	Rogue River
1001	Waters of the State	43.11218657	-85.56174125	Medium High	Outfall	Rogue River
7003	Waters of the State	43.12395606	-85.57610137	Medium High	Outfall	Unnamed Stream
3011	Waters of the State	43.12311755	-85.55347419	Medium High	Outfall	Rum Creek
2002	Waters of the State	43.12650226	-85.56074365	Medium High	Outfall	Rogue River
2007	Waters of the State	43.11991799	-85.5624423	Medium High	Outfall	Rogue River
3014	Waters of the State	43.12395076	-85.5582562	Medium High	Outfall	Rum Creek
3006	Waters of the State	43.12400154	-85.55729915	Medium High	Outfall	Rum Creek
3002	Waters of the State	43.12310809	-85.55331095	Medium High	Outfall	Rum Creek
3013	Waters of the State	43.12402448	-85.5582574	Medium High	Outfall	Rum Creek
2006	Waters of the State	43.12102519	-85.57011506	Medium High	Outfall	Wetland
2005	Waters of the State	43.12395776	-85.56226633	Medium High	Outfall	Rogue River
4008	Waters of the State	43.11841321	-85.56158186	Medium High	Outfall	Rogue River
3005	Waters of the State	43.12315803	-85.55143707	Medium High	Outfall	Rum Creek
4005	Waters of the State	43.11577194	-85.56042357	Medium High	Outfall	Rogue River
DP1002	MS4: KCDC	43.11728494	-85.57073346	Medium Low	Discharge	Kent County Drain
DP7002	MS4: KCDC	43.13181721	-85.572793	Medium Low	Discharge	Kent County Drain
DP7003	MS4: KCDC	43.13178287	-85.57997984	Medium Low	Discharge	Kent County Drain
DP1001	MS4: KCRC	43.11164631	-85.56570523	Medium Low	Discharge	Kent County Drain
2005B	Waters of the State			Medium High	Outfall	Rogue River

# Appendix 3

## What is Storm Water Runoff?

When it rains, storm water flows over lawns, streets, and parking lots. Storm water runoff can carry dirt, fertilizers, and motor oil into storm drains, which are often located alongside streets and parking lots.

## Where do Storm Drains Lead?

Storm drains lead directly to nearby rivers, streams, and lakes without any type of treatment.

## How Can I Help?

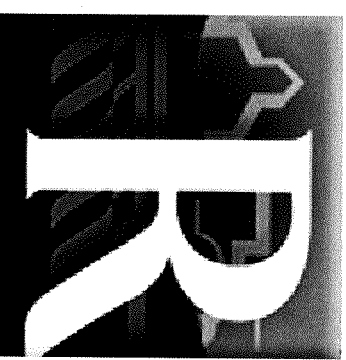
- Report anyone dumping anything down a storm drain.
- Take used motor oil to a quick lube or auto shop.
- Dispose of pet waste in a trash can.
- Avoid fertilizing your lawn before it rains.
- Wash your car on your lawn or take it to a commercial car wash.

A large, white, stylized letter 'R' is centered on a dark background. The 'R' has a thick, blocky appearance with a slight shadow effect, giving it a three-dimensional look. It is positioned in the lower right quadrant of the top section of the page.

[www.lowergrandriver.org](http://www.lowergrandriver.org)

# How to Report Water Pollution

Citizen Report Form



Postage

## If you see anyone dumping anything into a storm drain, REPORT IT.

Any substance, trash, or debris dumped into a storm drain will travel to our streams and lakes, and eventually the Grand River. Motor vehicle fluids, paint, grass clippings, and restaurant wastes should be disposed of properly.

### Violators can be fined.

The Illicit Discharge Ordinance provides legal authority to enforce fines for violations. To report dumping, please fill out this report and return it in one of four ways.

1. E-mail: [jdavies@rockford.mi.us](mailto:jdavies@rockford.mi.us)
2. Fax: 616-866-4242
3. Phone: 616-866-1537
4. Mail  
Name: Jamie Davies, Public Services Director  
Address: 7 South Monroe  
Rockford, MI 49341



**Date(s) pollution was observed:**

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**Location pollution was observed (address, street, city or township):**

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**Name of person(s) or company involved (if known):**

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**Please describe the pollution (include photographs if possible):**

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Please remember that all reports are investigated. Inspectors, however, are limited if a report is submitted anonymously as they cannot contact the submitter for more information.

If you would like to remain anonymous, it is highly recommended that you include photographs of the problem with your anonymous report.

**Your contact information (optional):**

Name: \_\_\_\_\_

Phone: \_\_\_\_\_

E-mail: \_\_\_\_\_

Address: \_\_\_\_\_

\_\_\_\_\_

**Date this report was submitted:**

---

Check here to receive a follow-up report.

Grass clippings blown into a storm drain

# WATER POLLUTION REPORT FORM

FOR CITY OF ROCKFORD EMPLOYEES

## Activities to Report.

As you perform your routine duties, if you observe anyone (landscapers, contractors, waste haulers, residents, etc.) dumping anything into a storm drain, report it. Storm drains lead directly to nearby stream and lakes, usually without any type of treatment. Our community is regulated by the state and federal governments, and we can be fined for failure to prevent and reduce the amount of pollutants entering the storm drain system. Motor vehicle fluids, paint and chemicals, yard waste, restaurant wastes, etc. should be disposed of properly. Only rainwater should enter a storm drain.

## Description of Pollution.

Date(s) pollution was observed: \_\_\_\_\_

Location of observed pollution (address, street):  
\_\_\_\_\_

Name of person(s) or company involved (if known):  
\_\_\_\_\_

Please describe the pollution (include photographs if possible):  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Date this report was submitted: \_\_\_\_\_

## Your Contact Information (optional).

Name, Title: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

## How to Return Form.

To report dumping, please fill out this report completely. Return it in one of four ways to our Storm Water Coordinator:

1. **Email:** [jdavies@rockford.mi.us](mailto:jdavies@rockford.mi.us) [pvincent@rockford.mi.us](mailto:pvincent@rockford.mi.us) [mbouwkamp@rockford.mi.us](mailto:mbouwkamp@rockford.mi.us)
2. **Fax:** 616-866-4242
3. **Phone:** 616-866-1537
4. **Mail:** 7 south Monroe Rockford, MI.



# WATER POLLUTION REPORT FORM

FOR CITY OF ROCKFORD EMPLOYEES

## EXAMPLES OF POLLUTION ENTERING THE STORM SEWER SYSTEM



Excessive sediment from construction site.



Sediment flowing into drain from soil piles.



Soap and dirt from vehicle washing.



Trash from open dumpster.



Grease and soap flowing to drain.



Grass clippings blown into drain.



# Appendix 4



# CITY OF ROCKFORD

Brien K. Dews, Mayor  
Michael F. Young, City Manager

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7 S. Monroe St. Rockford, Michigan 49341 T 616-866-1537 F 616-866-6406 www.rockford.mi.us

## IDEP Inter-jurisdictional Cooperation

State and federal law requires regulated Municipal Separate Storm Sewer Systems (MS4s) to have effective programs to find and eliminate illicit discharges to their systems (Illicit Discharge Elimination Plan). In some cases one community's MS4 discharges into another community's MS4.

We, as Storm Water Program Managers for our communities, recognize this requirement. We agree to work cooperatively with other MS4 communities where an illicit discharge is suspected to originate across our jurisdictional boundaries.

By signing this agreement, our community commits to investigating dry-weather discharges that appear at outfalls. We accept responsibility for notifying upstream owners if an illicit discharge is found to enter our MS4, and commit to abating discharges that are found to be leaving our MS4. These activities will be conducted pursuant to the procedures and timelines identified in the IDEP.

NAME

Storm Water Program Manager for CITY OF ROCKFORD