



## *Complying with EPA Phase II Storm Water Regulations*

### *How Azertia Can Help!*

The EPA Stormwater Phase II Final Rule now requires operators of Municipal Separate Storm Sewer Systems (called MS4s – Small System Operators) to implement six minimum control measures and to submit reports assessing progress in achieving the goals established for each control measure. The six program elements and the way in which Azertia can help achieve your Phase II program goals are outlined below:

<i>Phase II Control Measure</i>	<i>How We can Help</i>
1. <b>Public Education and Outreach</b> – Distributing educational materials and performing outreach to inform citizens about the impacts polluted storm water runoff discharges can have on water quality.	<ul style="list-style-type: none"> <li>▪ Creating maps and related information briefings for public dissemination</li> <li>▪ Fieldwork to place permanent plaques/markers on catch basins indicating “no dumping” or other pertinent messages. This educates people at the source of potential trouble.</li> </ul>
2. <b>Public Participation/ Involvement</b> – Providing opportunities for citizens to participate in program development and implementation, including effectively publicizing public hearings and/or encouraging citizen representatives on a storm water management panel.	<ul style="list-style-type: none"> <li>▪ Providing consulting and operational advice and recommendations to municipal managers and storm water management panels/councils.</li> <li>▪ Assisting in development and formulation of various storm water discharge detection, monitoring and control programs.</li> </ul>
3. <b>Illicit Discharge Detection and Elimination</b> – Developing and implementing a plan to detect and eliminate illicit discharges to the storm sewer system (includes developing a system map and informing the community about the hazards associated with illegal discharges and improper disposal of waste).	<ul style="list-style-type: none"> <li>▪ Developing a centralized mapping database of the entire storm system network, including field survey/audit of the storm network assets, identifying BMP locations, and basin and sub-basin flows for runoff analysis.</li> <li>▪ Field surveys to identify and catalogue storm system discharge points used in system mapping, compliance and analysis.</li> </ul>
4. <b>Construction Site Runoff Control</b> – Developing, implementing and enforcing an erosion and sediment control program for construction activities that disturb 1 or more acres of land (controls could include silt fences and temporary storm water detention ponds).	<ul style="list-style-type: none"> <li>▪ Map based monitoring of construction sites including listing and reporting of control measures used for each site.</li> </ul>



<p>5. <b>Post-Construction Runoff Control</b> – Developing, implementing and enforcing a program to address discharges of post-construction storm water runoff from new development and redevelopment areas. Applicable controls could include preventive actions such as protecting sensitive areas (e.g. wetlands) or the use of structural BMPs such as grassed swales or porous pavement.</p>	<ul style="list-style-type: none"> <li>▪ Map based monitoring program to identify and address post-construction storm runoff including identification of sensitive areas for special focus and cataloging of structural BMP control measures.</li> </ul>
<p>6. <b>Pollution Prevention/Good Housekeeping</b> – Developing and implementing a program with the goal of preventing or reducing pollutant runoff from municipal operations. The program must include municipal staff training on pollution prevention measures and techniques (e.g. regular street sweeping, reduction in the use of pesticides or street salt, or frequent catch-basin cleaning).</p>	<ul style="list-style-type: none"> <li>▪ Map based programs to trigger, monitor and report catch basin cleaning and street sweeping frequency and results.</li> <li>▪ Map based programs to monitor use of pesticides and street salt usage with goals to reduce amounts of both, including customized and ad hoc reporting capability.</li> <li>▪ Training of staff members in the use of the system programs for regular preventive maintenance and housekeeping.</li> </ul>

At the core of any serious compliance program is establishment of a credible computer based asset management system (storm system database) with strong reporting and mapping capabilities. The benefits to any organization include:

- A centralized compliance information source
- Improved storm water runoff analysis capability
- More systematic identification and assessment of potential pollutant sources
- Help in complying with other impending regulatory requirements, namely Governmental Accounting Standards Board changes (GASB 34) that requires municipalities to meet new standards related to the management and reporting of infrastructure assets.

Azertia provides the experience and knowledge to step you through the entire path to implementation of your system, including:

- Field surveys/audits including use of Global Positioning System (GPS) surveys to accurately capture your storm asset location and associated attribute information.
- Database creation services including current hardcopy records integration
- Hardware and software tools
- On-site training

*Contracted engineering reports are a good start. But they are only a start. To begin building a true **ongoing** compliance program while significantly improving day to day operations contact Azertia today!*