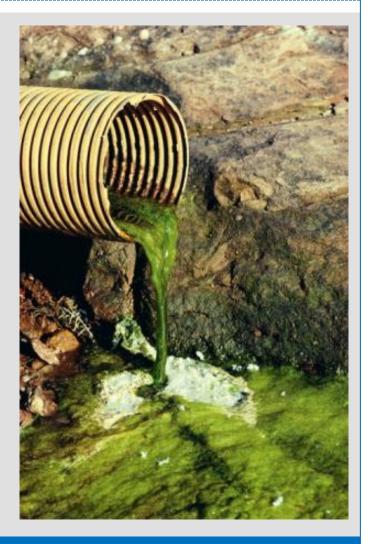


#### What is an illicit discharge?

The EPA defines an illicit discharge as any discharge to the municipal separate storm sewer system (MS4) that is not composed entirely of stormwater, except for discharges allowed under a NPDES permit or waters used for firefighting operations.

Since the MS4 Partners hold a MS4 permit, we're required to have an illicit discharge detection and elimination program.

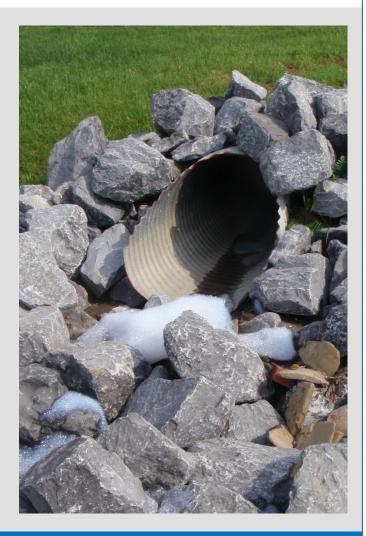




#### Where do illicit discharges come from?

These non-stormwater discharges occur due to illegal connections to the storm drain system from business or commercial establishments. Illicit connections may be intentional or may be unknown and often are due to the connection of floor drains to the storm sewer system.

Additional sources of illicit discharges can be failing septic systems, illegal dumping practices, and the improper disposal of sewage from recreational practices such as boating or camping.





#### Why do illicit discharges matter?

As a result of these illicit connections, contaminated wastewaters enter into storm drains or directly into local waters before receiving treatment from a wastewater treatment plant.

The result is untreated discharges that contribute high levels of pollutants, including heavy metals, toxins, oil and grease, solvents, nutrients, viruses, and bacteria to receiving waterbodies, which degrade receiving water quality and threaten aquatic, wildlife, and human health.





#### Are illicit discharges a major problem here?

The EPA's fact sheet on illicit discharges states: *"Discharges from MS4s often include wastes and wastewater from nonstormwater sources. A study conducted in 1987 in Sacramento, California, found that almost one-half of the water discharged from a local MS4 was not directly attributable to precipitation runoff."* 

Fortunately, these types of conditions don't exist in the region. However, illicit discharges are still importance to stop.





#### The rule of thumb is if it doesn't fall from the sky as precipitation, its not allowed into the storm system.





# What are some examples of non-stormwater discharges that are permitted?

Water line flushing; Landscape irrigation; **Diverted stream flows: Rising ground waters;** Uncontaminated ground water infiltration; Uncontaminated pumped ground water; Discharges from potable water sources; Foundation drains: Air conditioning or cooling tower condensation; Irrigation water; Springs; Water from crawl space pumps; Footing drains; Lawn watering; Individual residential car washing; Flows from riparian habitats and wetlands; Dechlorinated swimming pool discharges; Street wash water.



#### Where can I find out more information?

Office of Water EPA 833-F-00-007 (4203) January 2000 (revised December 2005) Fact Sheet 2.5 United States Environmental Protection Agency Stormwater Phase II €EPA **Final Rule Illicit Discharge Detection and Elimination Minimum Control Measure** This fact sheet profiles the Illicit Discharge Detection and Elimination minimum control measure, one of six measures the operator of a Phase II regulated small municipal separate storm sewer system (MS4) is required to include in its stormwater management program to Stormwater Phase II Final Rule Fact Sheet Series meet the conditions of its National Pollutant Discharge Elimination System (NPDES) permit. This fact sheet outlines the Phase II Final Rule requirements and offers some general guidance Overview on how to satisfy them. It is important to keep in mind that the small MS4 operator has a great 1.0 – Stormwater Phase II Final Rule: An Overview deal of flexibility in choosing exactly how to satisfy the minimum control measure requirements. Small MS4 Program What Is An "Illicit Discharge"? 2.0 – Small MS4 Stormwater Program Overview ederal regulations define an illicit discharge Table 1 2.1 – Who's Covered? Designat and Waivers of Regulated Smal MS4s Fas "...any discharge to an MS4 that is not composed entirely of stormwater ... " with some Sources of exceptions. These exceptions include discharges Illicit Discharges 2.2 – Urbanized Areas: Definition and Description from NPDES-permitted industrial sources and discharges from fire-fighting activities. Illicit Sanitary wastewater discharges (see Table 1) are considered "illicit" Minimum Control Measures Effluent from septic tanks because MS4s are not designed to accept, process, 2.3 – Public Education and Car wash wastewaters or discharge such non-stormwater wastes. Improper oil disposal 2.4 - Public Participation/ Why Are Illicit Discharge Detection and Radiator flushing disposal Elimination Efforts Necessary? Laundry wastewaters 2.5 – Illicit Discharge Detection and Elimination Discharges from MS4s often include wastes and wastewater from non-stormwater sources. A study conducted in 1987 in Sacramento, California, Spills from roadway accidents 2.6 - Construction Site Runoff Improper disposal of auto and household toxics found that almost one-half of the water discharged 2.7 – Post-Construction Runoff Control from a local MS4 was not directly attributable to precipitation runoff. A significant portion of 2.8 - Pollution Prevention/Good these dry weather flows were from illicit and/or eeping inappropriate discharges and connections to the MS4. 2.9 – Permitting and Reporting: The Process and Requirements Illicit discharges enter the system through either direct connections (e.g., wastewater piping either mistakenly or deliberately connected to the storm drains) or indirect connections 2.10 – Federal and State-Operated MS4s: Program Implementation (e.g., infiltration into the MS4 from cracked sanitary systems, spills collected by drain outlets, or paint or used oil dumped directly into a drain). The result is untreated discharges that **Construction Program** contribute high levels of pollutants, including heavy metals, toxics, oil and grease, solvents 3.0 - Construction Program nutrients, viruses, and bacteria to receiving waterbodies. Pollutant levels from these illicit discharges have been shown in EPA studies to be high enough to significantly degrade receiving water quality and threaten aquatic, wildlife, and human health. 3.1 – Construction Rainfall Erosivity Waiver Industrial "No Exposure" 4.0 – Conditional No Exposure Exclusion for Industrial Activity

Complete EPA IDDE fact Sheet: http://www.epa.gov/npdes/pubs/fact2-5.pdf



The MS4 Partners are required check for illicit discharges during dry periods. We have found several utility line breaks during these inspections.



Flow at University Park due to a broken water line



If you're in an older building where the floor drain is posted as going to the storm system, or you simply know it does, then utility blow downs like this can be an illicit discharge.



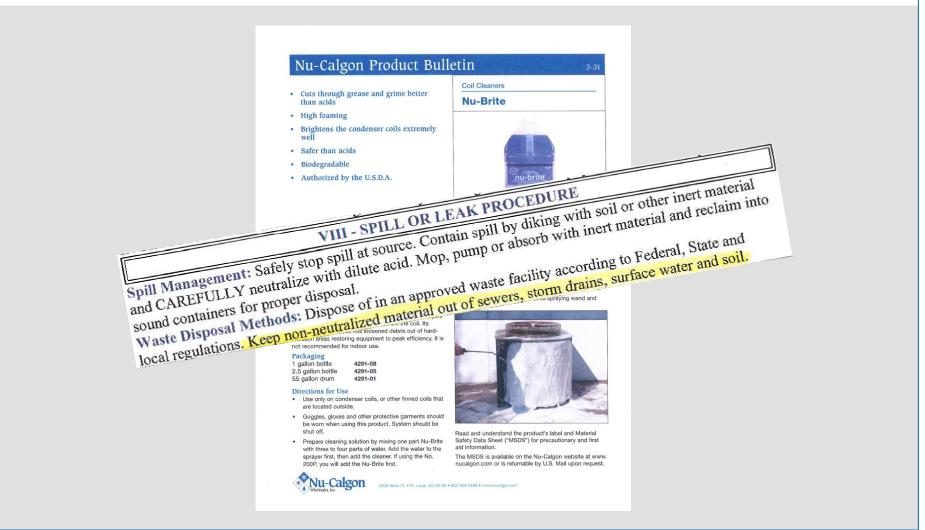


### If roof top utilities have chemicals added to them, then blow downs or intentional releases are illicit discharges.





#### Cleaning roof top equipment such as cooling towers without neutralizing cleaning chemicals can result in an illicit discharge.





Pool water may be slowly discharged into the storm drains, but only after it has been dechlorinated and tested.





Washing out garbage cans into a storm drain inlet is prohibited, regardless of how clean you think they are.





Washing out small containers into a storm drain inlet is prohibited, even if only has minimal "juice" in the bottom.



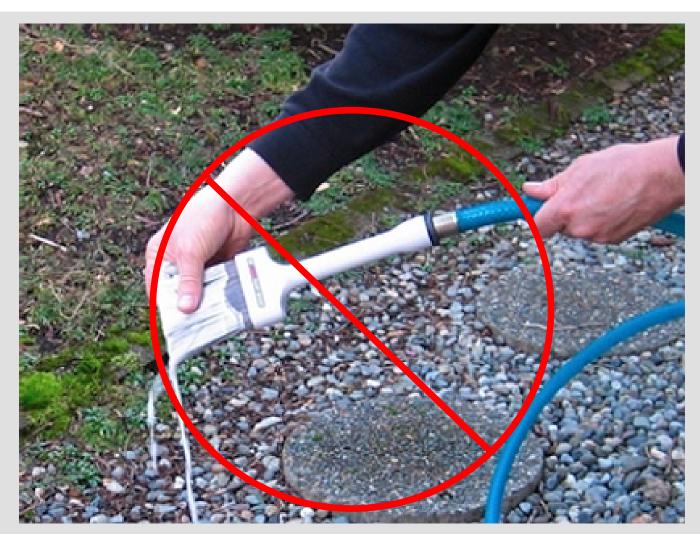


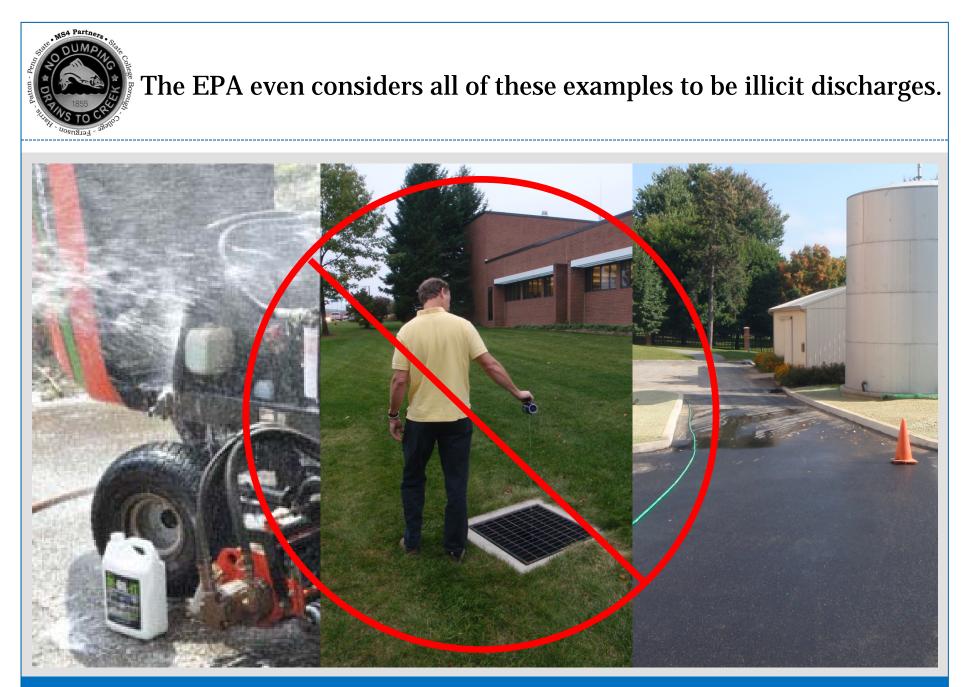
## Dumping mop buckets, rinsing out paint cans or brushes into an inlet is also prohibited and may result in an environmental cleanup.





Even rinsing off paint brushes on pervious areas is prohibited, wash water must be directed to the sanitary sewer system.







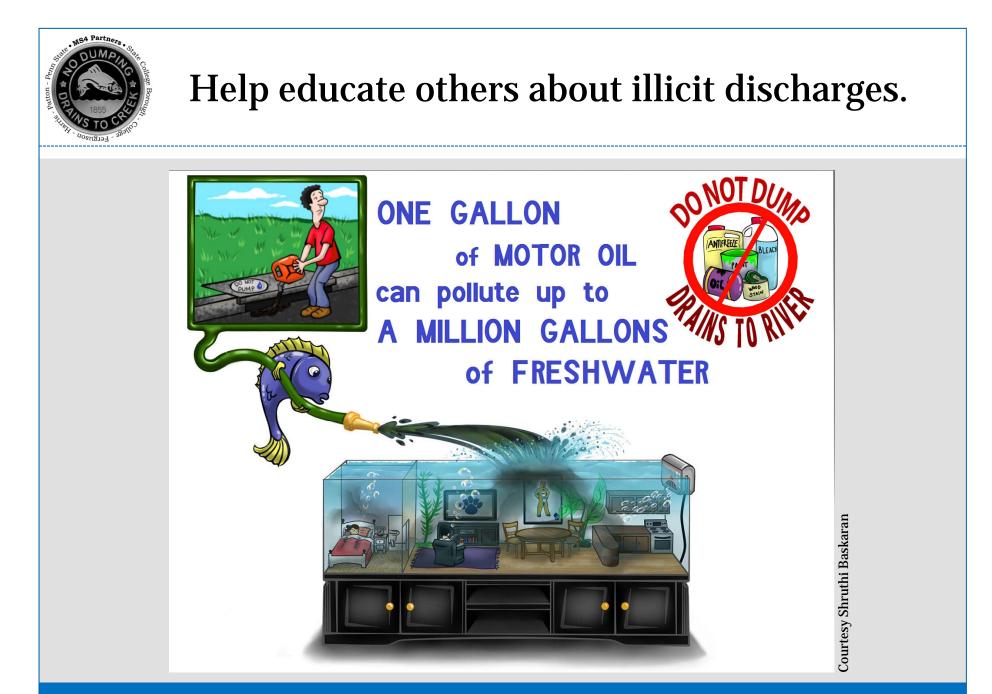
The washing of vehicles should be done at a specifically designed wash facility, or on lawns or other pervious areas.





Discharging chlorinated water or other pollutants down storm drains can result in fish kills and other adverse affects. Always know for sure where a drain discharges.







### If you see a problem, who do you notify?

If you observe a problem that is an emergency that may result in the loss of life or property, please call 911.



If you observe a suspected illicit discharge, or would like to report another type of stormwater related problem that needs immediate attention, please contact your Municipality.