

# NYC MS4 PERMIT Data Overview

Presented By Gordon Chike

# NYC MUNICIPAL SEPARATE STORM SEWER SYSTEM (MS4) PERMIT

## Background

The Clean Water Act was passed by Congress in 1972 to protect and restore the health of the waters of the United States. The Act regulates certain types of stormwater discharges as well as wastewater discharges to waterbodies across the country. Since 1990, medium and large cities have been required to obtain a permit to discharge stormwater through municipal separate storm sewer systems (MS4s). Since 1999, all urbanized areas have been required to obtain an MS4 permit.

Since the 1990s, the New York State Department of Environmental Conservation (DEC) has imposed certain stormwater related requirements on the New York City Department of Environmental Protection's (DEP) MS4. Until August 2015, those requirements were incorporated into the State Pollution Discharge Elimination System (SPDES) permits for DEP's 14 individual wastewater treatment plants.

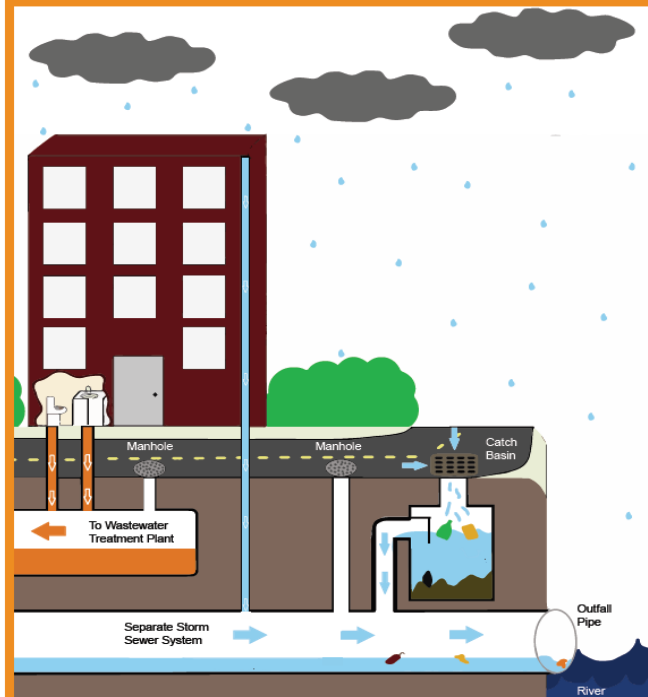
On August 1, 2015, DEC issued a new comprehensive MS4 permit for NYC. This permit includes robust requirements, which significantly expand the City's obligations to reduce pollutants discharging to the MS4.

There are 14 NYC agencies with significant obligations under the MS4 permit. DEP is responsible for coordinating the interagency efforts to meet the City's MS4 requirements.



## What is an MS4?

- Conveyance or system of conveyances;
- owned by a state, city, town, village, or other public entity that discharges to waters of the United States;
- designed or used to collect or convey stormwater;
- not a combined sewer; and
- not part of a Publicly Owned Treatment Works (Wastewater Treatment Plant).





# SERVICE LEARNING PROJECT & INTERNSHIP EXPERIENCES

Two examples of Industrial/commercial sites within the DEP's MS4 database, I managed from Excel spreadsheets.

**Note:** Sensitive information has been removed.

Physical Location of Storm Drain Receiving Discharge								
	A	B	C	D	E	F	G	H
1	Source	COMPANY_NA	ADDRESS	CITY	ZIP_CODE	ZONEDIST	PRIMARY_SI	Facility ID
294	Infogroup	X-Treme Signs & Graphix	680 Sharrotts Rd # 6	Staten Island	10309-1912	M1-1	399302	
295	Infogroup	Zim American Shipping	1110 South Ave	Staten Island	10314-3403	M1-1	444902	

J	K	L	M	N	O	P	Q	R
SPDES Analysis Level			Existing MSGP	Bulk Storage	Bulk Storage Site NO.	DEC Permit	Drainage Type (Separate/Direct)	Physical Location of Storm Drain Receiving Discharge
			Not Permitted	N/A		N/A		
			Not Permitted	N/A		N/A		

# SERVICE LEARNING PROJECT & INTERNSHIP EXPERIENCES

The DEP's MS4 database is extensive.

Various interns working for almost two years have been managing the Excel spreadsheet, gathering stormwater related information on every commercial building or industrial site.

M3-Queens	Queens Commercial	Queens Summary	M1-Brooklyn	M3-Brooklyn	<b>M1-Staten Island</b>		
Staten Island	M1-Bronx	M3-Bronx	Bronx Commercial	Bronx Residential	Bronx Summary	M1-Queens	M2

ode

# SERVICE LEARNING PROJECT & INTERNSHIP EXPERIENCES

## MS4 Pollution Prevention, Good Housekeeping for Municipal Operations

Requirements	Implementation Schedule
Develop and implement a pollution prevention/good housekeeping program for municipal operations and facilities in New York City. The pollution prevention/good housekeeping plan shall:	Not Yet Determined
Address municipal operations and facilities that contribute or potentially contribute POCs (Pollutants of Concern) to the Permittee's MS4 and to the waters of the State through direct drainage. The operations and facilities may include, but are not limited to: street and bridge maintenance; winter road maintenance including de-icing activities; vehicle servicing/maintenance; solid waste management (i.e. operating or closed municipal landfills or disposal facilities	Not Yet Determined

# SERVICE LEARNING PROJECT & INTERNSHIP EXPERIENCES

Requirements	Implementation Schedule
The Permittee must report on all municipal operations and facilities served by the Permittee's MS4 for the following items:	Not Yet Determined
Inventory of municipal operations and facilities	Not Yet Determined
Acres of parking lot swept	Not Yet Determined
Miles of street swept	Not Yet Determined
number of catch basis inspected and, where necessary cleaned	Not Yet Determined
number of catch basis inspected and, where necessary cleaned	Not Yet Determined
Number of self-assessments conducted at municipal operations and facilities	Not Yet Determined
Pollution prevention/good housekeeping training for municipal employees planned or completed	Not Yet Determined

# INTERNSHIP EXPERIENCES, THE SITE VISIT

I accompanied my supervisor and other members of the MS4 team to the New York City Department of Sanitation household special waste drop off site and salt dome located in hunts point in the Bronx.

Areal photo of site from Google maps

<https://www.google.com/maps/search/DSNY++Waste+Drop-Off+Site+/@40.7973487,-73.8778745,1954m/data=!3m1!1e3?hl=en>