

**PERFORMING
ENVIRONMENTAL
ASSESSMENTS AT
MUNICIPAL FACILITES**

NEW REQUIREMENTS IN MS4 PERMIT (2008 - 2013)

- PERFORM ENVIRONMENTAL ASSESSMENTS AT MUNICIPAL FACILITIES (EVERY 3 YEARS)
- DETERMINE POTENTIAL POLLUTANT SOURCES
- DETERMINE POLLUTANTS OF CONCERN

GOALS/OBJECTIVES OF ENVIRONMENTAL ASSESSMENTS

- COMPLY WITH ENVIRONMENTAL REGS
- INCORPORATE POLLUTION PREVENTION – REDUCE WASTES AT THE SOURCE PRIOR TO GENERATING WASTES
- **ADDRESS STORMWATER RUNOFF ISSUES**

BENEFITS

- PROTECT THE ENVIRONMENT
- AVOID WASTE GENERATION,
THEREBY REDUCING DISPOSAL
COSTS
- AVOID FINES FOR NON COMPLIANCE

CENTRAL POLICE SERVICES RADIO TOWER - CONCORD



FUEL STORAGE TANK FOR EMERGENCY GENERATOR



COSTS OF REMEDIATION

- TIME (RR) – 65 HOURS
- MANPOWER/EQUIPMENT (DPW) - 3 DAYS FOR EXCAVATION, TRANSPORT OF SOIL - \$3500.00
- SOIL SAMPLING/ANALYSIS - \$300.00
- SOIL DISPOSAL - 70 TONS @ \$20/TON= \$1500.00
- FILL FOR EXCAVATION - \$1400.00
- REPLACE STORAGE TANK - \$4700.00

PERFORMING AN ENVIRONMENTAL REVIEW

- STEP 1 (PRELIMINARY)
 - COMPILE FACILITY INFORMATION, AND REVIEW
 - DOCUMENT ON FORM
 - MAKE APPOINTMENT WITH FACILITY MANAGER

COMPILE INFORMATION



REVIEW DOCUMENTS



DISPOSAL MECHANISMS

- SOLID WASTE – DUMPSTER?
- LIQUID WASTES – SANITARY SEWER?
SEPTIC SYSTEM? OTHER?
- PROCESS EMISSIONS TO AIR?

REGULATORY ISSUES

- REGISTRATIONS:
 - CHEMICAL, PETROLEUM BULK STORAGE
 - PESTICIDES
- PERMITS:
 - SANITARY SEWAGE
 - AIR EMISSIONS
 - MUNICIPAL SEPARATE STORM SEWER SYSTEM

MUNICIPAL OPERATIONS THAT MAY HAVE STORMWATER RUNOFF IMPLICATIONS

- 17 IDENTIFIED BY THE WNYSC –
WHICH ONES PERTAIN TO THE
FACILITY THAT YOU ARE
INSPECTING?

HARLEM RD. HIGHWAY GARAGE - ON SITE OPERATIONS

- VEHICLE/EQUIPMENT MAINTENANCE & STORAGE
- LAWN CARE
- HAZARDOUS & WASTE MAT'LS. MGMT.
- OPERATIONAL BYPRODUCTS/WASTE
- CATCH BASIN/STORM DRAIN CLEANING
- ROAD SALT STORAGE & LOADING

MAKE APPOINTMENT WITH FACILITY MANAGER



STEP 2 - ON SITE VISIT

- MEET WITH FACILITY MANAGER
- GOALS:
 - REVIEW, CORRECT PRELIMINARY INFORMATION
 - CONDUCT ASSESSMENT
 - IDENTIFY PROBLEMS, DISCUSS WITH MANAGER, IDENTIFY APPROPRIATE SOLUTIONS
 - IDENTIFY APPROPRIATE BMP'S FOR IMPLEMENTATION

MEET WITH FACILITY MANAGER



WALK THROUGH INTERIOR OF BUILDINGS TO REVIEW EACH AREA

- INFRASTRUCTURE
- OPERATIONS/PROCESSES/EQUIPMENT
- PRODUCTS USED (INVENTORY)
- MATERIALS/WASTES
 - PROPER STORAGE? PROBLEMS NOTED?
- DOCUMENT YOUR FINDINGS
 - FACILITY INSPECTION REPORT FORM
 - INVENTORY FORM

INFRASTRUCTURE - CATCH BASINS



LINEAR FLOOR DRAIN



OPERATIONS - VEHICLE MAINTENANCE



VEHICLE STORAGE



PRODUCTS USED



WASTE STORAGE



SECONDARY CONTAINMENT



DISPOSAL MECHANISM



HAZARDOUS MATERIALS MANAGEMENT



DISPOSAL MECHANISM



INVENTORY



PAILS



DRUMS



LAMP WASTE



PROBLEMS?



TOUR EXTERIOR GROUNDS TO REVIEW EACH AREA

- INFRASTRUCTURE
- OPERATIONS/PROCESSES/EQUIPMENT
- PRODUCTS USED (INVENTORY)
- MATERIALS/WASTES
 - PROPER STORAGE? PROBLEMS?
- DOCUMENT YOUR FINDINGS

UNDERGROUND STORAGE TANKS



FILL PORT



LAWN CARE



VEHICLE STORAGE



EQUIPMENT STORAGE



OPERATIONAL BY-PRODUCTS/WASTES



SOLID WASTE MANAGEMENT



CONTENTS



LIQUID WASTE MANAGEMENT



LIQUID WASTE MANAGEMENT



SALT STORAGE



SALT LOADING



SALT LOADING



PARKING LOT STORM RECEIVER



STORM RECEIVER



TO NYSDOT STORM SEWER



ROOF DRAINS



ROOF DRAINS



STORMWATER ISSUES

- BUILDINGS – FLOOR & ROOF DRAINS
- PARKING AREA DRAINAGE
- EQUIPMENT/MATERIALS/WASTE STORAGE AREAS
- UNDERGROUND (SEPTIC SYSTEMS, UST's, HYDRAULIC LIFTS)
- OPEN AREAS – ARE THEY (OR CAN THEY BE) VEGETATED TO ALLOW INFILTRATION OF STORMWATER?

DOCUMENTATION

- WRITE REPORT
 - IDENTIFY PROBLEMS – ENV. COMPLIANCE ISSUES
 - ADDRESS CONCERNS
 - EVALUATE OPTIONS – POLLUTION PREVENTION, STORMWATER BMP'S
- IMPLEMENT CORRECTIVE MEASURES