



City of Cambridge Stormwater Management Program

Erosion and Sedimentation Control
April 7th 2014



CAMBRIDGE
DEPARTMENT
OF PUBLIC
**THE
WORKS**

Erosion and Sediment Control

- Construction Site BMPs helps
 - To minimize erosion and prevent sediments go to CB
 - To reduce dust production at site
- Stormwater pollution from construction site can be reduced by...
 - Protecting Catch Basins
 - Using Perimeter Control (Silt Fence w/Haybales)
 - Having Construction entrance/exit protection
 - Maintaining Designated material stockpile area and
 - Proper Dewatering setups
- Erosion and Sediment Control failure is when Sediments tracked off site into public Right Of Way and drainage system.



Pollutants



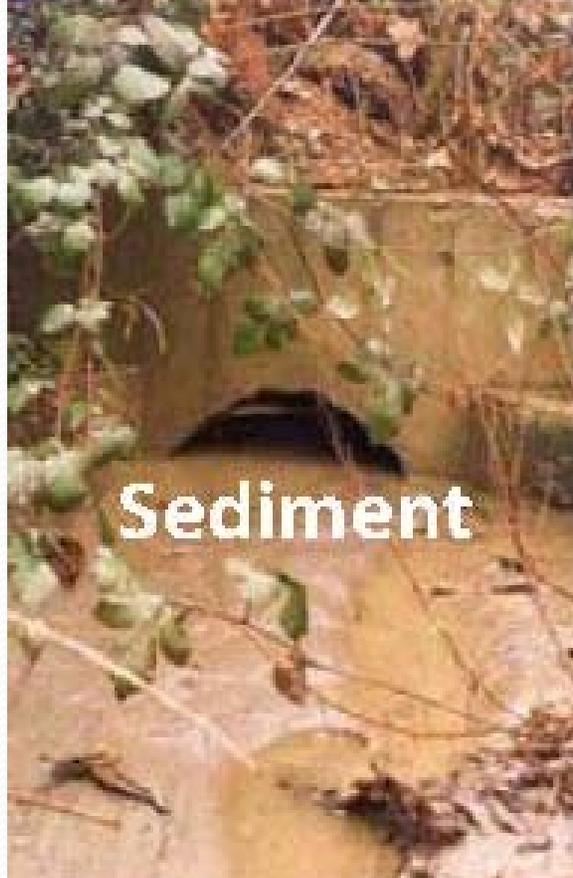
Trash



Heavy Metals



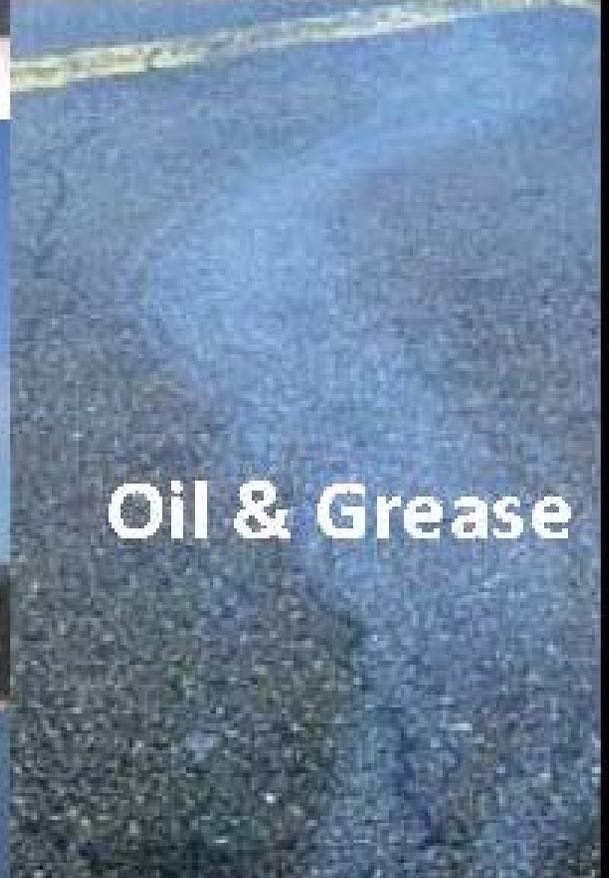
Nutrients



Sediment



Pathogens



Oil & Grease



Materials Covered

Perimeter Control

Building Material Staging area

Storm Drain and CB cover

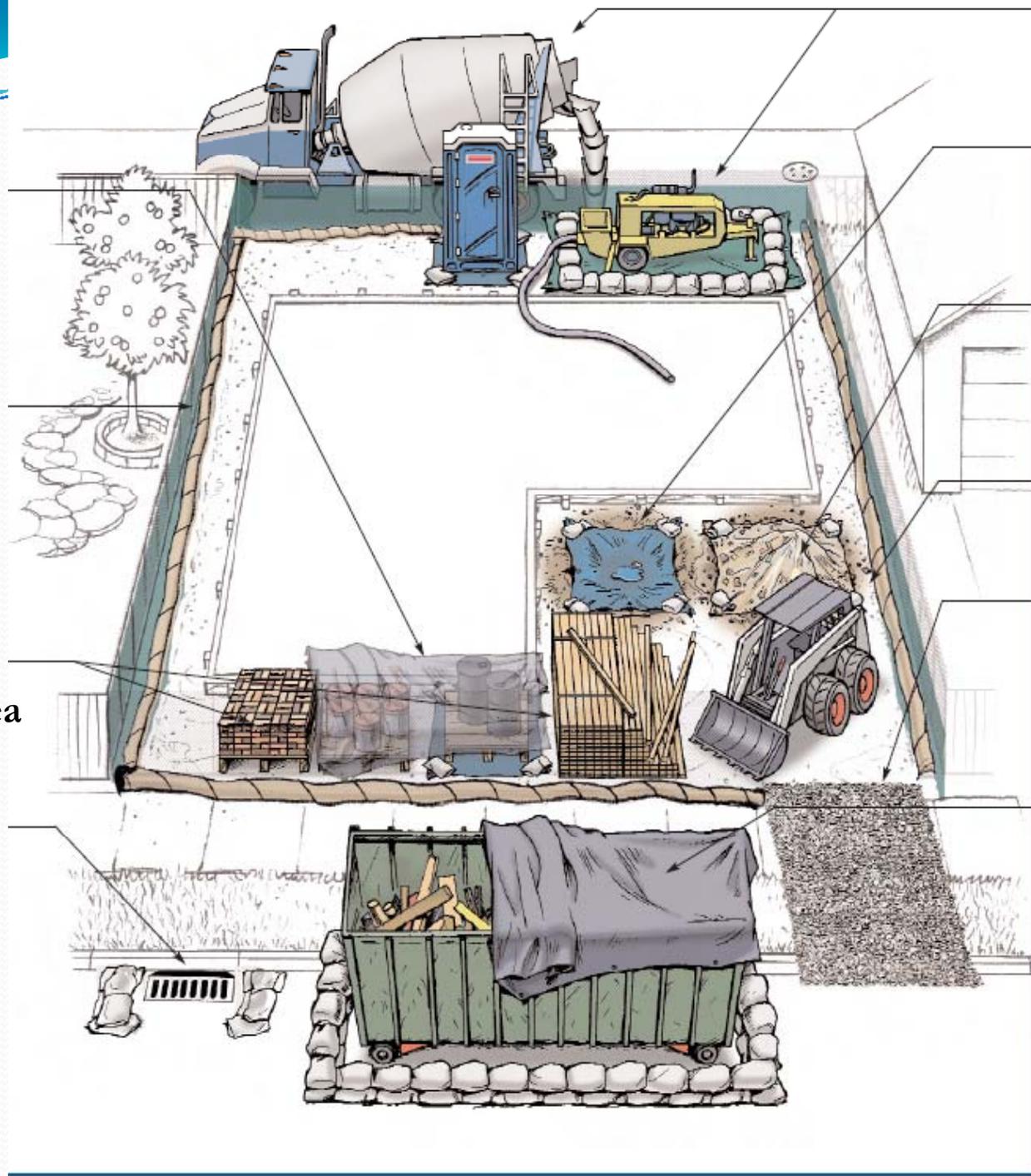
Concrete Truck

Concrete Wash out area

Designated material storing

Construction site entrance

Dumpsters Covered



Catch Basin Inlet Protection

Storm drains must be protected at all times with inlet control s, such as Silt Sacks , Silt bags etc.

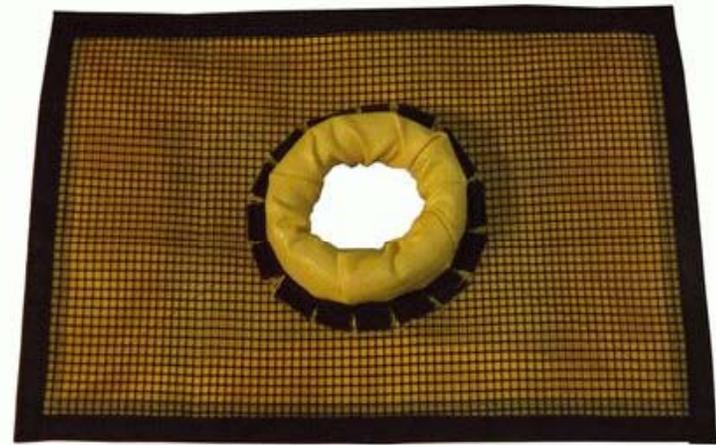
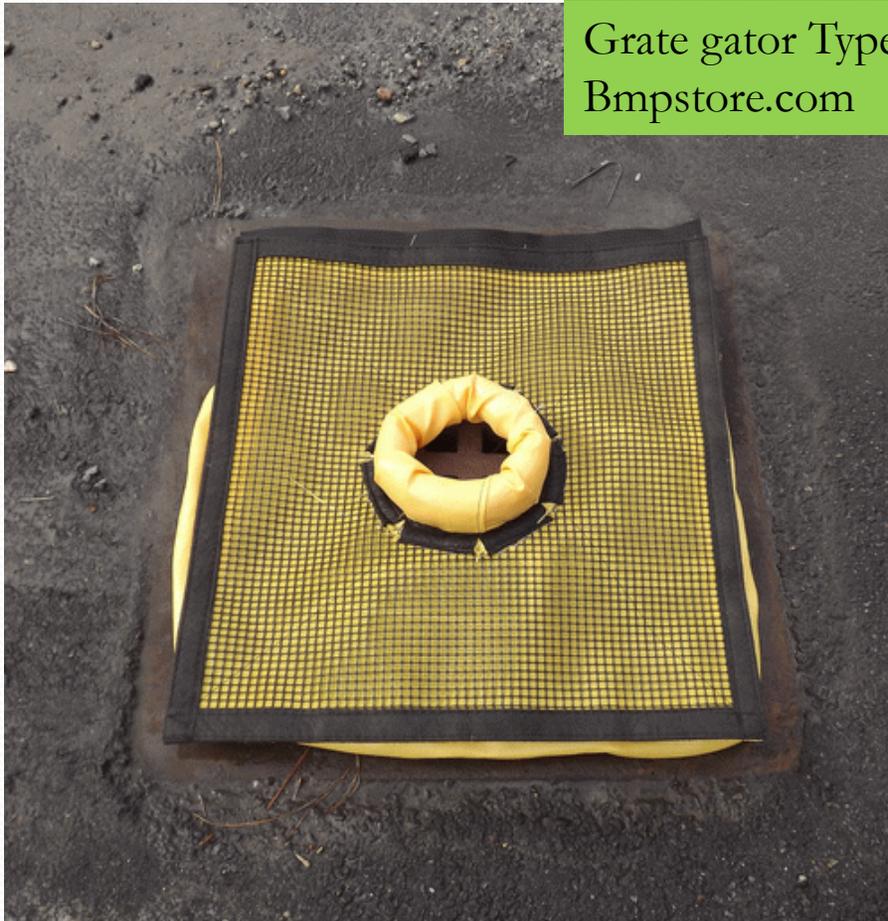


Catch Basin Inlet Protection



Construction phase Drop inlets

Grate gator Type A
Bmpstore.com



Perimeter Control

Gravel bags, silt fences, and fiber roles are acceptable perimeter controls, and shall be used to surround the entire site.



Perimeter Control



Construction Entrance

Stone or rock access drives at any construction site should be made of 3-4 inch fractured stone aggregate with a geo-textile liner below the grade of the road. This is to be used by all vehicles to limit tracks of mud onto the streets.



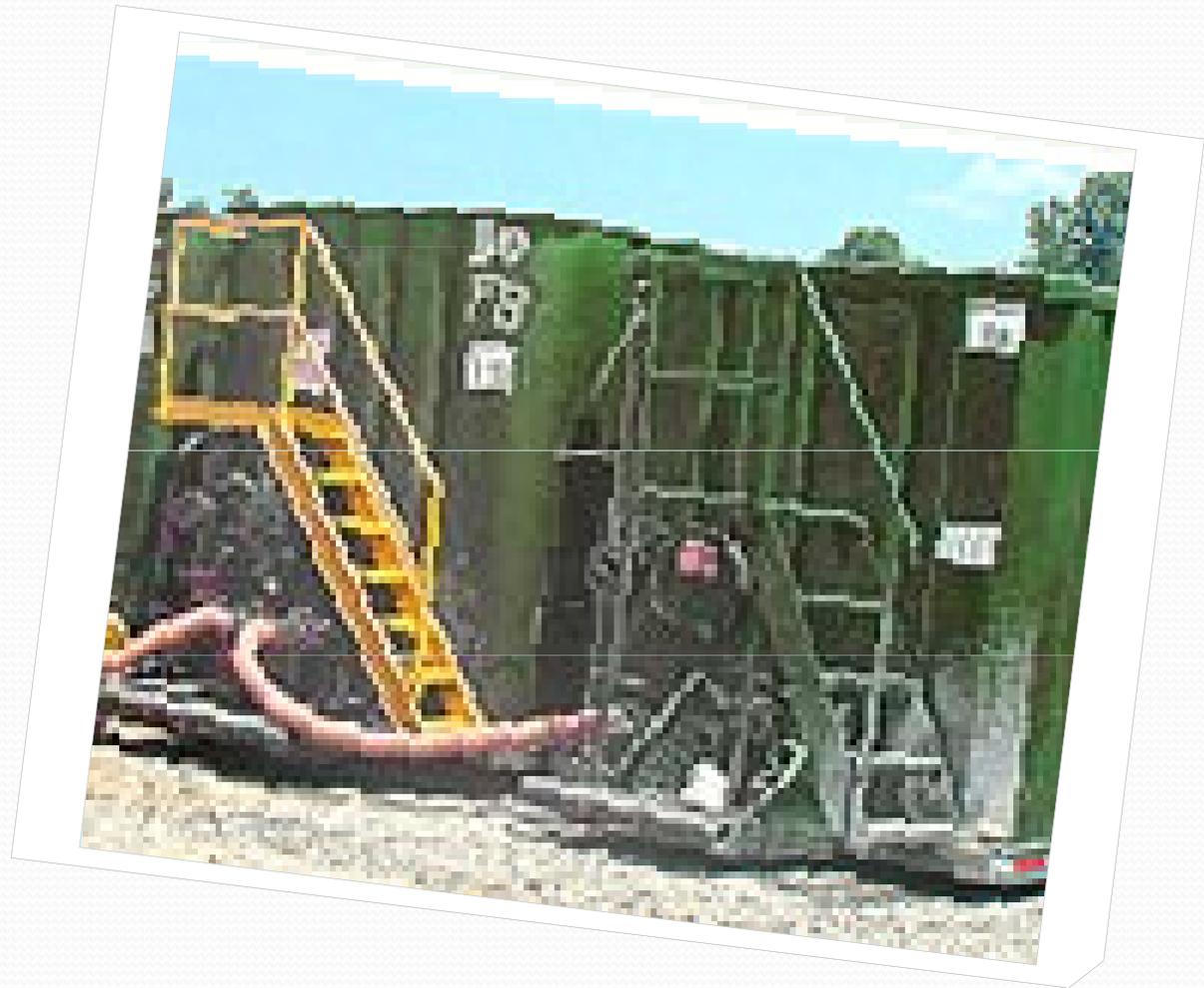
Construction Entrance and wheel washing



Dewatering

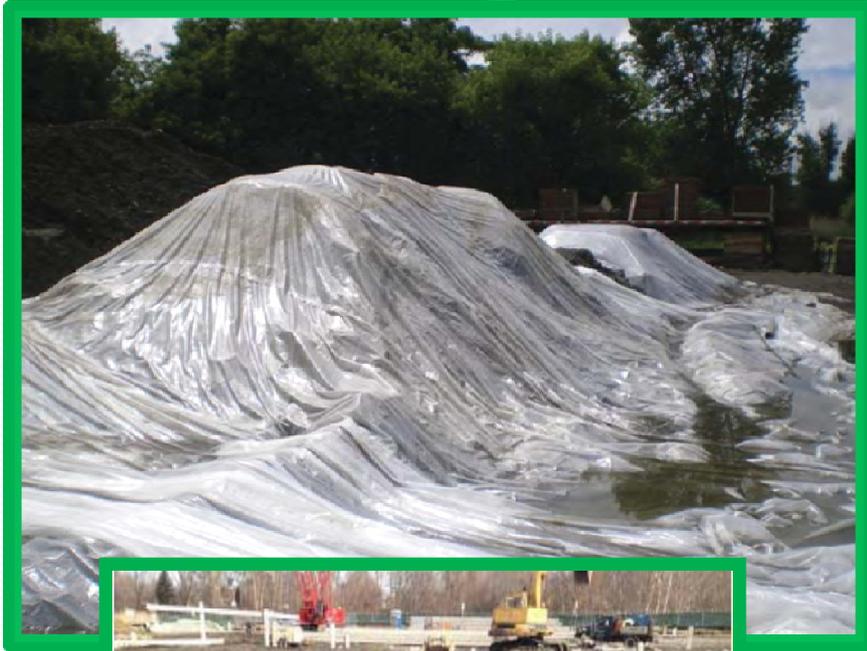
A discharge permit is required before releasing any construction site wastewater.

- EPA/NPDES
- MWRA
- City of Cambridge





Designated Material Stock Area



Working near CB

You are responsible for all sediment, dewatering, and discharge from your job site.



- During Rain Event
Remove and replace
new CB protections



- Concrete wash out for small work left over concrete



Do not Dump!



Runoff Discharges
to Nearby Waters



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- Street Sweeping
 - Dust Control measure



Erosion and Sediment Control

Erosion and Sediment Control Warning Ticket

The City will issue warnings for violations, followed by site closure and fines

CITY OF CAMBRIDGE		EROSION AND SEDIMENT CONTROL WARNING	
TIME	MONTH	DATE	YEAR
SITE ADDRESS		DEPARTMENT <input type="checkbox"/> DPW	
NAME OF CONTRACTOR			
ADDRESS OF PROPERTY OWNER		STATE	ZIP CODE
CONTACT PHONE NUMBER	EMAIL ADDRESS		
COMMENTS			
<input type="checkbox"/> NO ESC PLAN <input type="checkbox"/> ESC PLAN IS NOT FOLLOWED <input type="checkbox"/> ESC PLAN IS NOT ADEQUATELY CONTROLLING EROSION & SEDIMENT LOSS <input type="checkbox"/> BMPs ARE NOT PROPERLY MAINTAINED <input type="checkbox"/> ILLEGAL DUMPING TO CATCH BASINS <input type="checkbox"/> KEEP THE SITE CLEAN/PROPERLY MANAGE <input type="checkbox"/> DEWATERING VIOLATION			
CITY OF CAMBRIDGE WASTE WATER AND STORMWATER ARTICLE - V - B - SECTION 2			
"NO PERSON SHALL DISCHARGE OR CAUSE OR ALLOW TO BE DISCHARGED DIRECTLY OR INDIRECTLY INTO A CITY SANITARY OR COMBINED SEWER OR INTO SANITARY OR COMBINED SEWER TRIBUTARY THE NETO ANY PROHIBITED WASTE OR SUBSTANCE..."			
CITY OF CAMBRIDGE WASTE WATER AND STORMWATER ARTICLE - V - C - SECTION 3			
"NO PERSON SHALL DIRECTLY OR INDIRECTLY DISCHARGE OR CAUSE OR ALLOW TO BE DISCHARGED ANY ESIC DISCHARGE OR ANY OTHER WATERS NOT COMPOSED ENTIRELY OF STORMWATER INTO A BUILDING STORMWATER DRAIN..."			
CITY OF CAMBRIDGE LAND DISTURBANCE REGULATION ARTICLE - V - SECTION 1 (B) (1), (2), (3), AND (4)			
THE OWNER OR APPLICANT SHALL			
(A) "IMPLEMENT MEASURES INTENDED TO KEEP SOIL ON SITE OR OUT OF WATER RESOURCES, STORMWATER DRAINAGE SYSTEM OR THE PUBLIC RIGHT-OF-WAY AS THE FIRST STEP IN ANY DEVELOPMENT."			
(B) "REMOVE ANY SOIL THAT ENTERS THE PUBLIC RIGHT-OF-WAY."			
(C) "PROTECT STORMWATER INLETS THAT ARE FUNCTIONING DURING THE COURSE OF THE DEVELOPMENT BY APPROVED SEDIMENT CONTROL MEASURES SO THAT SEDIMENT LADEN WATER CANNOT ENTER THE INLETS WITHOUT FIRST BEING PROPERLY TREATED."			
CITY OF CAMBRIDGE WASTE WATER AND STORMWATER ARTICLE - V - D - SECTION 1			
"NO PERSON SHALL DIRECTLY OR INDIRECTLY DUMP, DISCHARGE OR CAUSE OR ALLOW TO BE DISCHARGED INTO ANY CATCH BASIN ANY SOLID WASTE, COMBUSTIBLE SOLID DEBRIS, PAINTS OR PAINTING PRODUCTS, ANTIFREEZE, HAZARDOUS WASTE, OIL, GASOLINE..."			

OFFENDER'S COPY

WARNING	
DEPARTMENT OF PUBLIC WORKS 147 HAMPSHIRE STREET CAMBRIDGE MA 02139-5201	
	



Questions?

Please feel free to contact me with any questions:

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