

General Specification NY-001 Pollution Control

1. Scope

The work consists of installing measures or performing work to control erosion and minimize the production of sediment and the release of other pollutants into water and air from construction activities.

Adherence to site specific pollution control plans and permits is also a part of the work.

Where there is a discrepancy between the general specification and the drawings, the general specification will govern.

Before construction begins, notify public utilities in accordance with New York State Code Rule 753.

The contractor is responsible for assuring that construction operations meet applicable OSHA and New York State rules and regulations for worker safety.

2. Material

For the erosion and sediment control measures and works, use materials that meet the quality requirements listed in the latest revision of the New York State Standards and Specifications for Erosion and Sediment Control, unless other requirements are specified below, shown in the Specific Site Requirements section, or shown on the drawings.

All materials are subject to acceptance by the approving engineer before they are brought to the work site.

3. Erosion and sediment control measures and works

The measures and works include, but are not limited to, the following:

Staging of earthwork activities—Schedule the excavation and moving of soil materials to minimize the size of areas disturbed and unprotected from erosion for the shortest amount of time.

Seeding—Apply seed within 24 hours following final grading of ground disturbing activity, or as directed by the approving engineer. Follow methods and materials in NY General Specification NY-003, Topsoiling, Seeding, and Mulching for Construction.

Mulching—Apply mulch to provide temporary protection of disturbed areas. Follow methods and materials in NY General Specification NY-003, Topsoiling, Seeding, and Mulching for Construction.

Sources of mulch should be free from weeds and invasive plant parts or seeds, and are subject to inspection and acceptance by the approving engineer.

On construction areas that have been disturbed but have no construction activity scheduled for 14 days or more, initiate the application of erosion control measures on areas with bare soil by the end of the next business day and complete measures within 14 days from the date of current disturbance. This erosion protection may be mulching or other approved temporary measures. Protect areas with bare soil during a winter shutdown period by mulching.

Temporary seedings may be used as an alternative to other stabilization measures as accepted by the approving engineer.

Diversions—Install temporary diversions to collect and control water from work areas for treatment and safe disposal. Use approved materials and follow requirements in NY General Specification NY-004, Earthen Structures for Water Conveyance and Erosion Control, unless otherwise specified in the Specific Site Requirements section.

Stream crossings—Install temporary culverts or bridges where equipment cross streams.

Sediment basins—Install temporary sediment basins to collect, settle, and keep sediment from disturbed areas from impacting properties and streams below the site. Install and maintain sediment basins in accordance with the latest revision of the New York State Standards and Specifications for Erosion and Sediment Control, unless site-specific requirements are specified in the Specific Site Requirements section, or shown on the drawings.

Sediment filters—Install straw bale filters or geotextile silt fences to trap sediment from areas of limited runoff and no concentrated flow of water. Anchor sediment filters to prevent sediment from passing under or around them. Install and maintain silt fences in accordance with the latest revision of the New York State Standards and Specifications for Erosion and Sediment Control, unless site-specific requirements are specified in the Specific Site Requirements section, or shown on the drawings.

Waterways—Install temporary waterways for the disposal of runoff from fields, diversions, and other structures or measures. Use approved materials and follow requirements in NY General Specification NY-004, Earthen Structures for Water Conveyance and Erosion Control, unless otherwise specified in the Specific Site Requirements section.

Other—Install and follow additional protection measures as specified in the Specific Site Requirements section, shown on the drawings, or as required by Federal, State, or local government.

4. Chemical pollution control measures

The contractor must supply watertight tanks or barrels, or construct a sump sealed with plastic sheets, to collect and temporarily contain chemical pollutants, such as drained lubricating or transmission fluids, grease, soaps, concrete mixer washwater, or asphalt. Dispose of pollutants in accordance with appropriate Federal, State, and local regulations.

Locate temporary sanitary facilities, such as chemical toilets or septic tanks, at least 100 feet from all surface waters, drainage channels, springs and wells. Dispose of the facilities without causing pollution, as specified in the Specific Site Requirements section.

Storage of fuel and lubricants—Store fuel and lubricants in containers and areas that are in conformance with the Federal, State, and local regulations. Locate storage areas at least 300 feet from all surface waters, drainage channels, springs and wells.

Servicing and refueling equipment—Perform fueling and lubricating of construction equipment in a dedicated area acceptable to the approving engineer, and in a manner that avoids spills and over filling.

Spills of chemical pollutants—When a spill of chemical pollutants such as fuel or hydraulic fluid occurs, immediately attempt to contain the spilled material. The following procedures must be followed:

1. For spills on land, construct earthen berms or use other acceptable barricade material of adequate size to contain the spill and keep it from spreading.
2. For spills on water, attempt to isolate and contain the spilled material. Commercial booms or other acceptable materials must be kept on site during construction to contain fuel and oil spills on water, when specified in the Specific Site Requirements section.
3. All petroleum spills that occur within New York State must be reported to the NYS Spill Hotline (1-800-457-7362) within 2 hours of discovery, except spills which meet **all of the following criteria**:
 - the spill is known to be less than 5 gallons; and
 - the spill is contained and under the control of the spiller; and
 - the spill has not and will not reach the State's water or any land; and
 - the spill is cleaned up within 2 hours of discovery.
4. Spills resulting from damage done to a transmission pipeline must be acted upon immediately following requirements in NYS Code Rule 753-3.14, Emergency requirements.

5. Air pollution control measures

Burn brush, slash, and other materials in accordance with Federal, State, and local regulations.

Apply fire prevention measures to prevent the start or spread of fires that may result from construction activities. Install and maintain firebreaks or guards at locations shown on the drawings.

Use a sprinkler or other method to suppress dust on public access or haul roads used during construction.

Chemical products specifically designed for dust suppression may be used. The contractor must follow the requirements and recommendations of the manufacturer. A copy of the product data sheet and manufacturer's recommended application procedures must be provided to the approving engineer at least 5 days before the first application.

6. Invasive species control and bio-security measures

This section applies when specified in the Specific Site Requirements section.

Before moving equipment, vehicles, and trailers on and off the work site, spray, scrape, or brush soils, seeds, plant parts, or invertebrates from exterior surfaces, to the extent practical, to minimize the risk of transporting non-native invasive species. Only clean equipment, hand tools, trailers, vehicles, and machinery will be allowed on the work site.

Use staging areas that are free from invasive plants, as shown on the drawings, or marked in the field.

When equipment is used in areas where invasive plants have been identified on the drawings or in the field, clean all equipment, machinery, and hand tools of all visible soil and plant material before leaving the infested area. Clean equipment at the site of infestation. Acceptable methods of cleaning include, but are not limited to:

- a portable sprayer with treated water;
- a portable wash station that captures runoff from washing equipment (containment must be in compliance with discharge regulations);
- high pressure air; or
- a brush, broom, or other hand tool (used without water).

When water is used, contain the water/slurry to restrict the introduction of invasive plants, seeds and plant parts into the work site or offsite through future surplus material disposal. Do not clean equipment, machinery, vehicles, or tools upslope or within 100 feet of any surface water, ditch, or waterway. Do not clean construction equipment, vehicles, and tools on or next to bare soil areas.

When work in areas containing invasive plants cannot be avoided, move construction equipment and perform work in areas not infested by invasive plants before moving to areas infested by invasive plants, whenever possible.

Follow the bio-security measures specified in the Specific Site Requirements section, and additional measures required by the landowner.

7. Maintenance, removal, and restoration

Maintain pollution control measures and temporary works until construction is complete. When construction is complete, remove pollution control measures and restore the site to an acceptable post-construction condition.

8. Measurement and payment

Method 1—The quantity of Pollution Control is not measured for payment.

Payment for all Pollution Control shown on the drawings and described in this specification is negotiated between the contractor and the landowner. Payment will be full compensation for all labor, materials, equipment, tools, and other appurtenances necessary and incidental to the completion of the work.

Method 2—The quantity of Pollution Control will not be measured.

Payment for Pollution Control will be made at the construction contract bid schedule lump sum price. Payment will be full compensation for all labor, material, equipment, tools and all other appurtenances necessary and incidental to the completion of the work.

Compensation for any item of work described in the drawings and specifications but not listed in the construction contract bid schedule will be included in the payment for the work to which it is made subsidiary. These items are identified in the Specific Site Requirements section.

Specific Site Requirements