Stormwater Pollution Prevention Plan
Branford Landfill

Town of Branford

Tabor Drive
Branford, Connecticut

June 2011

FUSS & O'NEILL

56 Quarry Road
Trumbull, CT 06611

Project No. 1987013.B50

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Executive Summary

The following activities must be completed by the Pollution Prevention Team following the schedule listed below:

Activity	Schedule	Applicable Section of Plan
Collect samples for visual inspection	**Quarterly**; quarters begin on January 1, April 1, July 1, and October 1.	Section 5.4.1
Collect a sample of stormwater from the outfalls for **iron** analysis and compare results to benchmark and respond accordingly	**Quarterly**; quarters begin on January 1, April 1, July 1, and October 1.	Section 5.4.2
Collect a sample of stormwater from the outfalls for analysis and compare results to **benchmarks** and respond accordingly	**Twice per year**; once between October 1 and March 3; the other between April 1 and September 30.	Section 5.4.3
Collect and analyze **aquatic toxicity** samples	**Once per year for first two years**	Section 5.4.4
Collect a sample of stormwater from the outfalls for **fecal coliform** analysis and compare results to effluent limits and respond accordingly	**Once per year**	Section 5.4.5
Collect a sample of stormwater from the outfalls for analysis and compare results to **effluent limits** and respond accordingly	**Once per year**	Section 5.4.6
Submit results to DEP using Stormwater Discharge Monitoring Report.	**Within 90 days of collecting sample.**	Section 5.9
Weekly Inspections	**Weekly**	Section 6.1
Monthly Inspections	**Monthly**	Section 6.2
Semi-annual Inspections	**Twice per year**; once between October 1 and March 3; the other between April 1 and September 30.	Section 6.3

Activity	Schedule	Applicable Section of Plan
Train affected employees.	**Once per year** and within **90 days of hiring new** employees	Section 4.10
Update Stormwater Pollution Prevention Plan (Plan).	**If it is concluded stormwater systems are not effective or if there are significant changes to the site or to DEP policy**	Section 2.1

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Table 1

Stormwater Pollution Prevention Team

Branford Landfill
Tabor Drive
Branford, Connecticut

Plan Supervisor:	~~Laura Paoletto~~ Dan McGowan
Title:	Solid Waste Supervisor
Address:	Branford Recycling Center and Transfer Station 747 East Main Street, Branford, CT
Phone:	203-315-0622
Email:	solidwaste@branford-ct.gov
Responsibilities:	Coordinate Plan development, inspections and implementation, coordinate initial employee training program, maintain all records and ensure reports are submitted, oversee sampling programs, spill response coordinator. Signatory Authority.
Plan Manager:	~~Art Baker~~ Tom Bombard
Title:	Director of Public Works
Phone:	(203) 488-4156
Email:	~~abaker@branford-ct.gov~~
Responsibilities:	Implementation of this plan. Oversee good housekeeping activities. Spill response coordinator. Conduct or arrange for inspections and training. Monitor practices by hauling and disposal contractors.
Member:	~~Cheezy Hill Construction~~ n/a
Title:	Operator
Phone:	(203) 488-7929
Responsibilities:	Practice good housekeeping procedures and adhere to all stormwater pollution prevention and spill response policies.
Member:	Kevin Hughes
Title:	Landfill Attendant
Phone:	(203) 315-0622
Responsibilities:	Oversee Plan development and recordkeeping.

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1 Introduction and Facility Description

This document is a Stormwater Pollution Prevention Plan (SWPPP or Plan) for the Town of Branford Landfill on Talbot Drive in Branford, Connecticut. This Plan was prepared in accordance with the *Connecticut General Permit for the Discharge of Stormwater Associated with Industrial Activities* (General Permit) which becomes effective October 1, 2011. A copy of the facility's permit registration, as well as the General Permit, is contained in *Appendix A*. *Appendix B* presents a general location map for the facility.

The Connecticut Department of Environmental Protection (CTDEP) issued Solid Waste Permit No. 014 26 in February 1987 based upon proposed site plans and a report entitled "Branford Landfill Study, Superior Landfill Management, Inc., October 1985" (Fuss & O' Neill, 1985). Stormwater discharge from the Landfill was initiated shortly thereafter.

The Landfill is situated on a 28.5 acre site approximately 1,000 feet east of Route 146, 1 mile south of the center of Branford and approximately 2,000 feet north of Long Island Sound (Figure 1). The intervening area between the Landfill and the Long Island Sound is occupied by residential property and tidal wetlands which drain to the southwest into the Branford River estuary above Branford Harbor. A ridge occupied by Waverly Park Road and residences extends south from the Landfill with tidal wetlands on either side. A closed solid waste Landfill is located immediately west of the Branford Landfill. Residential property also exists northwest of the facility. Property to the north and east is undeveloped.

The facility is operated by the Town of Branford Department of Solid Waste & Recycling. The site's Standard Industrial Classification (SIC) Code is 4953 – Refuse Systems, and the industrial activity performed at the site is operation of a Landfill. This facility falls under Sector C of the General Permit which governs Refuse Systems.

The Landfill occupies approximately 19.4 acres of a larger parcel with two separate historic disposal areas. The 8.9-acre portion to the west was used for municipal solid and bulky waste disposal. The eastern portion, which covers 10.5 acres and abuts a wetland, was used only for bulky wastes. Special wastes approved by the CTDEP were also placed at the Landfill. These wastes, including sewage sludge and contaminated soil, were combined on top of the Landfill and used for grading or as a base for final cover over the inactive portions of the Landfill. This area remains inactive and was graded and hydroseeded for erosion control pending completion of final capping.

Currently the only area of active operation is a 1.71 acre bulky waste cell in the northern portion of the Landfill. Approximately 1.1 acres of this active area has been closed. The active landfilling area is used for bulky waste only, as the waste inspection process rejects wastes that include hazardous materials, universal waste, municipal solid waste, free-draining liquids and other types of waste. Inactive waste disposal areas as well as material loading/unloading areas, access roads and the direction of stormwater flow are shown on *Figure 2*.

Based on the site activities, the potential for exposure of activities and materials to stormwater, and the point source stormwater discharges from the site, the facility is subject to the General Permit. This Plan has been developed for use by the Town of Branford to manage and monitor

pollutants in stormwater discharges from the site. A copy of this Plan will be maintained to reflect current practices on-site and made available to the CTDEP upon request.

1.1 Effective Dates

The new General Permit takes effect on October 1, 2011. Registration under the new General Permit is required by June 1, 2011. Compliance, including monitoring and inspections, is required in accordance with the 2003 General Permit until September 30, 2011.

1.2 Site Specific Information

The General Permit requirements differ depending on a number of variables. Stormwater runoff from this site does not discharge into a Municipal Separate Storm Sewer System (MS4). The site is not located in an Aquifer Protection Area. It is located in an area with a groundwater classification of GB.

Stormwater runoff from the site discharges through the outfalls, Discharge 001 and Discharge 002 into a non-tidal freshwater wetland area and ultimately into a segment of Long Island Sound (LIS)(Waterbody Segment ID: CT-C1_009-SB) which is classified as an "Impaired Water" for shellfish harvesting for direct consumption. The affected reach of the LIS is located along the central portion of LIS in Branford, and the inner estuary from Branford Point. The associated segment of the LIS is considered a Category 5 "Impaired Water" according to the CTDEP's 2008 Impaired Waters list. Category 5 waters are waters that have not had a Total Maximum Daily Load Established, but may be subject to TMDLs after additional assessment. As discussed in *Section 5.4.5* of this Plan, an additional monitoring parameter is required due to discharge into an impaired waterbody.

Based on their SIC Code the Landfill is subject to the sector specific requirements listed Section 5(f) of the General Permit.

1.3 Additional Sector-Specific Requirements for Authorization

The 2011 General Permit includes the following sector-specific requirements for authorization that are applicable to the facility.

Sector C:

The following discharges are not authorized by this General Permit: Landfill leachate, gas collection condensate, drained free liquids, contaminated groundwater, laboratory wastewater, and rinse and washwater from trucks, railcars, equipment, paved areas, or buildings.

The facility does not discharge water from these sources. See *Section 4.11* of this Plan for further discussion of the non-stormwater discharge evaluations.

1.4 Additional Sector-Specific Recordkeeping Requirements

Detailed records of the types of wastes disposed of in each Landfill cell, or discrete waste storage area that is exposed and operational in a given time period, will be kept with the Plan. This information is shown on the Landfill site map in *Appendix C*.

2 Maintenance and Implementation of the Stormwater Pollution Prevention Plan

2.1 Revisions to the Plan

Following Section 5(c)(5) of the 2011 General Permit, this Plan will be amended whenever:

- There has been a change at the site which has an effect on the potential to cause pollution of the waters of the state,
- The actions required by the Plan fail to ensure or adequately protect against pollution of the waters of the state,
- The commissioner requests modification of the Plan,
- The permittee is notified that they are subject to requirements because the receiving water to which the industrial activity discharges has been designated as impaired under Section 303(d) of the Clean Water Act and is identified in the most recent State of Connecticut Integrated Water Quality Report.
- The permittee is notified that a TMDL to which the permittee is subject has been established for the stormwater receiving water,
- Necessary to address any significant sources or potential sources of pollution identified as a result of any inspection or visual monitoring, or
- Required as a result of monitoring benchmarks or effluent limitations in "Monitoring" (Section 5(*a*)) or "Additional Requirements for Certain Sectors" (Section 5(*f*)).

The Plan Manager will:

- Complete the revisions and actions required by such revisions within 120 days (or within another interval as may be specified in the General Permit or in writing by the Commissioner) of the date which the permittee becomes aware or should have become aware that any of the conditions listed above have occurred,
- Direct revisions to the Plan,
- Make the members of the Stormwater Pollution Prevention Team aware of the revisions,
- Note the revisions on the form maintained in *Appendix D*, and
- If significant changes are made to the site or to the Plan, have the Plan recertified by a Professional Engineer licensed in Connecticut or a Certified Hazardous Materials Manager.

2.2 Pollution Prevention Team

The personnel listed in *Table 1* are designated as members of the stormwater pollution prevention team (team). The team members, their responsibilities, and contact phone numbers are proved in the table. The stormwater pollution prevention team is responsible for implementing, maintaining, and revising the Plan and making all necessary corrective actions. At least one team member will be present at the facility or on-call during all operational shifts and each team member will have access to a paper or electronic copy of the Plan at all times. *Table 1* will be revised when necessary.

3 Description of Potential Pollutant Sources

This section describes the potential pollutant sources that may reasonably be expected to affect stormwater quality at the site or that may result in the discharge of pollutants from the site during dry weather. Activities and materials that may be a source of stormwater pollution at the site are also identified. *Appendix C* presents a Site Map.

3.1 Drainage

The Landfill occupies approximately 19.4 acres of the 28.5 acre site and is located on a property owned by the Town of Branford. On-site grading of the Landfill has been designed such that stormwater drains from the Landfill to one of two discharge points. Stormwater drainage pathways from each section of the Landfill are included on *Figure 2*. Each section of the Landfill is discussed below.

Drainage Area 1 is approximately 3.27 acres in size and comprises the area north of the drainage berm that separates the office and equipment storage facility from the active filling area of the Landfill. This drainage area includes the building as well as a gravel parking and storage area where Landfill cover materials are stockpiled. Stormwater from the roof of the Landfill Office/Maintenance Garage Building (Building) flows freely on the west side of the Building and is directed via gutter and drainpipe on the east side of the Building to an area in front of the berm for the bulky waste area.

Runoff generated from Drainage Area 1 flows overland across the gravel area and along the north side of the site driveway. The stormwater then flows into the unnamed watercourse along the north side of the driveway at Discharge 001, through a break in the berm located between the driveway and the watercourse. From this point the flow continues through a wetland and ultimately into the Long Island Sound.

Drainage Area 2 is approximately 5.52 acres in size and includes the eastern side of the Landfill and the bulky waste area. A dirt access road for trucks and Landfill equipment loops through this area. Runoff from Drainage Area 2 generally flows in a northeast direction overland until it is intercepted by an earthen and riprap berm. Stormwater is channeled by the berm and flows through a riprap area before discharging into a sedimentation basin to the east where silt and sediment is removed via gravity settling. Runoff from the access roadway flows north until it reaches a riprap channel. It then flows east through the riprap and into the sedimentation basin. The stormwater in the sedimentation basin then discharges to

groundwater or overflows to Discharge 002. As the sedimentation basin does not typically overflow, untreated stormwater samples are taken from the flow at the riprap channel. Overflow and infiltration from the sedimentation basin discharges to a wetland and then continues on to the Long Island Sound.

3.2 Inventory of Exposed Materials

An inventory of exposed materials is provided in *Appendix E*. This list includes the type of exposed material, its use, storage area, duration of storage, the approximate quantity stored, potential pollutants with the material, and, if applicable, the type of container.

This list will be maintained as an appendix, which can be easily updated to include additional materials stored in the future to keep the plan current with Section 5(c)(5) of the General Permit. If new materials are added or altered the new materials must be assessed to determine if they will adversely impact the quality of stormwater runoff at the site. If it is determined that storage modifications or controls are needed, they should be implemented before the new materials are brought to the site and the Plan should be amended. The list includes "Types of Materials" as specified in Section 5(c)(2)(D)(ii) of the General Permit.

3.3 Summary of Potential Pollutant Sources

This section presents a narrative summary of each area of the site identified in the Inventory of Exposed Materials (*Section 3.2* of this Plan) and the potential sources of pollution, including the method and location of storage or disposal, materials management practices implemented to minimize contact of the materials, and description of control and treatment measures.

On-Site Storage Activities: Waste oil is contained and stored on pallets within the building. These materials do not come in contact with stormwater. Stockpile material for cover is stored in the gravel area in the vicinity of the Landfill office and equipment storage building. Potential pollutants include migrant soils from the stockpiles.

Material Loading and Access Areas: Bulky wastes and contaminated soils are unloaded only in the active cell immediately behind the Building. The size of the working cell is kept manageable to minimize contact with stormwater. Potential pollutants include oil and grease from the trucks and bulldozer, suspended solids and metals, as well as those pollutants associated with bulky waste.

Outdoor Processing Activities: The process of Landfilling bulky waste is conducted outside. Bulky wastes are placed in the designated storage area and covered weekly with fill to isolate the waste from stormwater runoff. While exposed to stormwater, potential pollutants include oil and grease, suspended solids and metals as well as those pollutants associated with bulky waste.

Leachate Collection or Treatment Systems: The Branford Landfill site does not have leachate collection or a treatment system. The Landfill is routinely inspected and as areas of leachate seepage are identified, measures are taken to eliminate the potential for recurrence.

Dust or Particle Generating Processes: Dust is generated when unpaved roads and unvegetated areas become dry. Most of the dust remains on the Landfill site and does not migrate off-site. Maintenance of the roads is done to prevent rutting and to keep disturbed material to a minimum. During prolonged dry periods, the roads are sprayed with water to minimize the amount of dust generated. Vegetative cover is maintained on areas of intermediate and final cover to minimize dust generated from these areas.

Roof Areas: There are no exhaust vents or stacks on the roof of the Landfill Office/Equipment Storage Building and the roof is only a small percentage of the overall site; therefore, runoff from the roof is not expected to significantly impact stormwater quality.

On-site Waste Disposal Practices: No waste is generated at this site. Bulky wastes from the transfer station and CTDEP approved contaminated soils are deposited in the active bulky waste area.

In order to reduce pollutants from the above sources, several physical control measures have been implemented at the site. An earthen and riprap berm was constructed around the areas where bulky and special wastes are loaded and unloaded to prevent erosion and dust migration. Riprap was placed in areas of runoff to prevent erosion, and a detention basin allows sediment to settle out of the stormwater before it is released into the adjacent wetland areas.

3.4 Significant Spills and Leaks

Significant spills or leaks are defined in the General Permit as "five gallons or more of toxic or hazardous substances as defined in section 22a-430-4 Appendix B Tables II, III and V, and Appendix D of the Regulations of Connecticut State Agencies, and 40 CFR 116.4". According to Town of Branford personnel, no such spills have occurred at the site after October 1, 2008 (the date three years prior to issuance of the 2011 General Permit). Spills or leaks, as described above, will be listed in the table provided in *Appendix F*.

4 Measures and Controls

This section documents the location and type of control measures installed and implemented at the site in accordance with the General Permit. In general, the measures and controls present at the site are appropriate for the site, and the activities occur as discussed below. Sector-specific requirements of the General Permit are discussed in *Section 4.12* of this Plan.

4.1 Good Housekeeping

The facility is maintained in orderly condition to reduce stormwater pollution from activities at the site and the possibility of an accidental spill. Good housekeeping practices employed at the facility include:

- Prompt removal and remediation of any spills.
- Erosion and sedimentation control devices are implemented and checked regularly to ensure proper working order.
- Travel ways are properly maintained.

- Vehicle washing is not performed on-site.
- Waste and recyclable materials entering the Landfill vicinity are properly disposed of or store at the appropriate locations.
- Weekly inspections of the active bulky waste cell and monthly inspections of inactive areas are conducted for aspects of Landfill maintenance which may contribute to stormwater pollution. The inspection forms are provided in *Appendix I*. Any deficiencies noted will be corrected as soon as possible.
- Maintaining mobile and fixed machinery used on-site in good working order.
- Regular sweeping of paved areas and storage areas.

4.2 Vehicle Washing and Rinsing

No washing or rinsing of equipment or vehicles is performed at the site that would allow wash or rinse waters to discharge to adjacent receiving waters. Discharges from the washing or rinsing of vehicles, buildings and equipment that would allow wash or rinse water to enter any storm drainage system or surface waters of the state or groundwater is not allowed without a wastewater discharge permit, and these discharges are not authorized under the General Permit.

4.3 Floor Drains

Per the General Permit, all floor drains must be either sealed or permitted by the CTDEP. The Landfill does not have active floor drains.

4.4 Roof Area Sources

Roof area sources are discussed in *Section 3.3* of this Plan.

4.5 Minimization of Exposure

Activities and storage areas at the site are managed in a manner to minimize the potential for stormwater exposure as discussed in *Section 3.3* of this Plan. These include indoor storage of liquid materials in tanks that are compatible with the materials stored, covering waste materials as required by the Landfill General Permit and sector-specific requirements, and performing equipment maintenance activities off-site.

Per the General Permit, facilities constructed after July 15, 2003 must be constructed to preclude exposure of such materials. Although this requirement is not applicable to the Landfill based on the construction date, the Landfill will evaluate future material storage areas for the potential of stormwater exposure in order to minimize such exposure. Additional methods for minimizing exposure will also be evaluated when monitoring results related to this Plan indicate that additional measures may be necessary. Where Town of Branford personnel believe it is not feasible to construct a permanent roof or cover, they will submit this Plan (and $500 Plan review fee) showing the area(s) in question and reasons in writing for the commissioner's review and written approval.

4.6 Sediment and Erosion Control

Areas of the Landfill site with a potential for soil erosion include the unpaved access roadway which leads from the top of the Landfill down to the office building area and the unstabilized slopes around the active bulky waste cell. Sediment and erosion control methods employed at the site include an earthen and riprap berm around areas where bulky and special wastes are unloaded and processed. Roads are sprayed with water during prolonged dry periods and vegetative cover is maintained on all areas of intermediate and final cover to minimize dust generated from these areas.

4.7 Management of Runoff

Stormwater runoff from Drainage Area 1 is collected and treated by a drainage swale above the base of the Landfill to manage the amount of pollutants in the stormwater runoff. A vegetative swale and sedimentation basin on-site removes silt and sediment from the stormwater runoff from Drainage Area 2 before it enters the adjacent wetland areas. The Town will assess the effectiveness of these controls based upon stormwater monitoring results and if there is any future change in the activities at the site or the manner in which current activities are performed. Any evaluation, construction, or modification of the design of a stormwater drainage system will be certified by a licensed Connecticut professional engineer as required by the General Permit.

4.8 Preventative Maintenance

Preventative maintenance at the facility includes routine visual inspection of areas which could generate spills or leaks, as well as routine inspection and maintenance of the stormwater management system.

Routine maintenance inspections of the active bulky waste cell are conducted on a weekly basis. Visual inspections include the garage areas, storage areas and material unloading areas. The results of each inspection are recorded on inspection log sheets. An inspection checklist has been developed to aid the inspector in conducting equipment inspection and is included in *Appendix I*.

4.9 Spill Prevention and Response Procedures

There are few potential spill sources at the Branford Landfill. There is the potential for a spill from a broken hose or other malfunctions associated with on-site heavy equipment. Containers for storing oils or chemicals will be clearly labeled with the contents and stored appropriately on secondary containment pallets. Spill response equipment maintained at the Landfill includes absorbent material stored in the garage and a telephone in the building.

The inventory of exposed materials in *Appendix E* and the facility site plan presented in *Appendix C* identify materials for which there is release potential as well as the potential discharge points associated with those materials.

4.9.1 Future Potential Release Sources

For future sources of potential releases, Public Works personnel will:

- Modify this Plan to identify the additional potential release sources and their drainage points.
- Incorporate spill response procedures to address the additional potential spill sources.
- Inform appropriate personnel of the modified spill response procedures.

4.9.2 Additional Spill Prevention Measures

In addition to good housekeeping and material/waste management procedures outlined in this Plan, the facility will also follow the additional spill prevention measures described below.

- Maintain an ample supply of absorbent pads and Speedi-Dry on-site to manage small spills.
- Store liquids containers on impermeable containment, which will hold at least the volume of the largest container, or 10% of the total volume of all containers in the area, whichever is larger, without overflow from the containment area.
- Store liquids containers with capacities less than 100 gallons under a roof. The roof should minimize stormwater entry to the containment area. 55-gallon drums must be stored indoors or under cover, with adequate secondary containment (on spill pallets, within containment dikes, etc.).

4.9.3 Spill Response Procedures

The following definitions apply to spill response at the Branford Landfill:

- A release is any spill, discharge, or leak of a substance from its assigned container or storage unit.
- An Immediate Release Area is a fifty (50) foot radius around a release.
- An Incidental Release is a release which can be absorbed, neutralized, or otherwise controlled at the time of the release by employees in the immediate release area.
- An Uncontrolled Release is any release that is not determined to be an incidental release.

In the event of a release, Branford Landfill site personnel who first notice the release must evaluate the nature and extent of the release to determine whether the release is "incidental" or "uncontrolled."

If Branford Landfill site personnel determine that the release is incidental, then the Response Procedures for Incidental Releases will be followed. If site personnel determine that the release is not an incidental release, then the Response Procedures for Uncontrolled Releases will be followed.

Incidental Releases: In the event of an incidental release, Branford Landfill personnel will undertake the following response procedures:

- Absorb, neutralize or otherwise control the release using the available solid absorbent materials.
- Determine whether additional response help is necessary.
- Collect used absorbent material and place the collected material in the dedicated container adjacent to the absorbent materials.
- Replace spill response materials as necessary.

The Solid Waste Manager, or designated representative, will act as the On Site Coordinator. The responsibilities of the Coordinator in the event of an incidental release are as follows:

- From a safe area notify the CTDEP - Oil and Chemical Spill Response Division (860) 424-3338
- If additional incidental release response help is deemed necessary, instruct site personnel not to return to the release area - an approved clean-up contractor will be contacted to assist in the release response.
- Document the release and release response, as described below.
- When the release response is complete, the Team Leader will make the necessary arrangements to have the waste material transported and disposed of by an authorized waste handler in accordance with federal, state and local laws and regulations.

Uncontrolled Releases: For any uncontrolled release, Branford Landfill personnel will take no response action beyond the following:

- Initiate evacuation procedures, if necessary, and
- Follow the instructions of the On-Site Coordinator.

The On-Site Coordinator will undertake the following uncontrolled release response procedures:

- From a safe area, notify each of the following:
  Branford Emergency Coordinator 911
  CTDEP - Oil and Chemical Spill Response Division (860) 424-3338
- Update local, State or Federal responders on the status of all personnel and site conditions as they arrive.
- Document the release and release response, as described below.

The On-Site Coordinator will contact an approved contractor to perform the emergency response and clean up the release.

Within twenty-four (24) hours after a release, a report will be submitted to CTDEP. In Connecticut, a release of a chemical substance or petroleum product must be reported immediately to the CT DEP Oil and Chemical Spill Unit at (860) 424-3338. This requirement applies to oil spills and other discharges of hazardous materials if the release poses a potential threat to human health or the environment, where the "environment" is defined as any environmental medium including soil, surface water, or groundwater.

The verbal report must contain the following information:

1. Chemical name
2. Estimated quantity of release
3. Time and duration of release
4. Media released to (air, water, soil, etc.)
5. Anticipated chronic or acute health risks
6. Medical attention needed
7. Precautions or actions taken in response
8. Name and phone of contact for more information

DEP policy requires a written report as soon as possible following the telephone/verbal report. If necessary, as determined by the extent of the spill/release, the National Response Center will be notified at (800) 424-8802. One copy of this report will be maintained on-site. The spill recording log provided as *Appendix F* also will be updated.

4.10 Employee Training

The Town of Branford will maintain a training program designed to inform appropriate personnel of the components and goals of the Stormwater Pollution Prevention Plan. Appropriate personnel include anyone whose actions may involve exposure of materials or equipment to stormwater. A description of the stormwater pollution prevention training program is provided in *Appendix J*.

Employee training, in accordance with this program, will be conducted a minimum of once per year and within 90 days from an employee's initial date of employment. Completed training forms will be maintained and stored in a readily available file at the Solid Waste Supervisor's office. Blank forms are also provided in *Appendix K*.

4.11 Non-Stormwater Discharges

A visual inspection of the facility's stormwater drainage area was conducted during dry weather by Fuss & O'Neill, Inc. on May 20, 2003. Based on this visual inspection and a subsequent site visit by Fuss & O'Neill in 2011, no non-stormwater discharges are generated from the site. The only exception is occasional groundwater or leachate seepage. Whenever seepage is observed, measures are taken to prevent recurrence.

Pursuant to Section 5(c)(2)(F) of the General Permit the Landfill may generate the following allowable non-stormwater discharges:

- Landscape irrigation or lawn watering;
- Uncontaminated groundwater discharges such as pumped groundwater, foundation drains, water from crawl space pumps and footing drains;
- Discharges of uncontaminated air conditioner or refrigeration condensate;
- Water sprayed for dust control or at a truck load wet down station;

- Naturally occurring discharges such as rising groundwaters, uncontaminated groundwater infiltration (as defined at 40 CFR 35.2005(20)), springs, and flows from riparian habitats and wetlands.

The Non-Stormwater Discharge Certification is included in *Section 9.0* of this Plan.

4.12 Solid De-icing Material Storage

No bulk solid de-icing materials are currently stored at the Landfill site. Groundwater at the Landfill is classified as GB. Therefore, the Landfill is not subject to the requirements of the General Permit concerning "new" salt storage facilities.

4.13 Sector-Based Control Measures

In addition to the general control measures and plan requirements, the following additional measures apply for Sector C – Refuse Systems:

Preventative Maintenance
Consistent with the requirements of the General Permit, the Landfill is inspected to prevent comingling of leachate with stormwater and to protect the integrity and effectiveness of any intermediate or final cover (including repairing the cover as necessary) to minimize the effects of settlement, sinking and erosion.

Erosion and Sediment Control
The Landfill employs temporary stabilization measures (e.g. temporary seeding, mulching, placing of geotextiles on inactive portions of stockpiles) for materials stockpiled for daily, intermediate and final Landfill cover; inactive areas of the Landfill; areas that have received final cover but where vegetation has yet to establish itself; and land application sites where waste application has been completed but final vegetation has not yet been established.

Additional Plan Requirements
In accordance with the requirements of the General Permit, the areas where active and closed Landfill cells, active and closed land application areas, locations where open dumping is occurring or has occurred, locations of any known leachate springs or other areas where uncontrolled leachate may commingle with runoff, and leachate collection and handling systems, can be exposed to precipitation or runoff are labeled on the site plan in *Appendix C*.

4.14 Discharges to Impaired Waters

The DEP has established an EPA-approved list of "Impaired Waters" which have been assessed as not meeting Water Quality Standards (WQS) for a given designated use. Specific pollutants (e.g. bacteria, heavy metals, nutrients, etc.) may be identified as indicators of that impairment. The DEP is required by the EPA to establish a Total Maximum Daily Load (TMDL) for each impaired water to reflect the pollutant load that the water body can assimilate without exceeding the WQS.

For an existing discharge to an impaired water with an established TMDL, the DEP will inform the permittee of any additional controls necessary for the discharge to be consistent with the available Waste Load Allocation in the TMDL, or if coverage under an individual permit is necessary.

For stormwater discharges to waters for which there is an established TMDL, the permittee is not required to monitor for any indicator pollutant identified in the TMDL unless informed in writing by the DEP, upon examination of the applicable TMDL and/or Waste Load Allocation (WLA), that the permittee is subject to such a requirement consistent with the assumptions of the applicable TMDL and/or WLA. DEP's notice will include specifications on which indicator pollutant to monitor and the required monitoring frequency during the first year of permit coverage. Following the first year of monitoring:

- If the indicator pollutant is not detected in any of the first year samples, the permittee may discontinue further sampling, unless the TMDL has specific instructions to the contrary, in which case the permittee must follow those instructions. The permittee must keep records of this finding onsite with the Plan.
- If the permittee detects the presence of the indicator pollutant in the stormwater discharge for any of the samples collected in the first year, the permittee must continue monitoring annually throughout the term of this permit, unless the TMDL specifies more frequent.

4.15 Implementation Plan

An Implementation Plan has been developed to document and track recommended measures to reduce potential for stormwater pollution at this facility. Recommended measures may be noted during the site inspections or may arise as a result of stormwater monitoring results. The Implementation Plan is included as *Appendix C*. The Implementation Plan will be reviewed during semi-annual inspections and updated as necessary.

5 Stormwater Monitoring Program

5.1 Monitoring Locations

The sampling locations identified in the table below are to be monitored in accordance with the General Permit, as described in the following sections.

General Permit Monitoring Locations

Drainage Area	Discharge Number	Discharge Type	Location	Activities
DA 1 (3.27 acres)	001	Break in Berm into Unnamed Watercourse	Northern limit of drainage area	Solid waste transfer, office and equipment storage facilities
DA 2 (3.52 acres)	002	Riprap Channel	Northeastern limit of drainage area, just upstream of sedimentation basin	Solid waste transfer and storage

5.2 Monitoring Program

The following table summarizes monitoring requirements for the sampling locations for the first two years of the General Permit beginning October 1, 2011. There are additional monitoring requirements for Sector C activities including Landfills which are discussed in *Section 5.4* of this Plan.

Sampling Schedule Summary

Outfall	Quarter 1 10/1 to 12/31	Quarter 2 1/1 to 3/31	Quarter 3 4/1 to 6/30	Quarter 4 7/1 to 9/30
001 and 002	Visual and Iron	Visual and Iron	Visual and Iron	Visual and Iron
	General Monitoring		General Monitoring	
	Aquatic Toxicity, Effluent Limits, and Fecal Coliform			

Samples will be analyzed in accordance with methods prescribed in Title 40 of the Code of Federal Regulations Part 136 (40 CFR 136) and in the General Permit. Upon completion of sampling, sampling personnel will submit the samples, along with appropriate documentation, to the laboratory for chemical analyses and bioassay testing.

5.3 Qualifying Storm Events

The Town of Branford or a hired contractor will collect a stormwater sample during the following conditions:

The rainfall event:

- Occurs at least 72 hours (3 days) after any previous storm event.
- Collection of grab samples will begin during the first 30 minutes of the suitable rainfall event and be completed as soon as possible.
- May occur with snow or ice on the ground, although if either is present it must be noted on reporting forms.

Information provided by the National Oceanic and Atmospheric Administration (NOAA) or other recognized weather services will be used to determine total rainfall for the storm event and the duration between the storm event sampled and the end of the previous measurable storm event.

5.4 Sample Collection and Analysis

Collection of grab samples from the outfalls designated in *Section 5.1* of this Plan will begin during the first 30 minutes of a storm event discharge and will be completed as soon as possible. Samples will be collected at the outfall or nearest feasible location representative of the discharge. All discharge samples at the site must be collected during the same storm event, if feasible. Stormwater samples are analyzed for the parameters identified in *Sections 5.4.1-5.4.6* of this Plan by a Connecticut certified laboratory. The following sections discuss the variations in sampling and data collection requirement for each of the required sample frequencies.

5.4.1 Quarterly Visual Monitoring

Once each quarter for the term of the permit, the Town of Branford will collect representative stormwater samples from Discharge 001 and Discharge 002 in clean, clear glass or clear plastic containers and examine them in a well-lit area. The town must visually inspect the samples for the following water quality characteristics:

- Color
- Odor
- Clarity
- Floating solids
- Settled Solids
- Suspended Solids
- Foam
- Oil sheen
- Other obvious indicators of stormwater pollution

If the visual assessments indicate that the control measures at the facility do not appear to be adequate or are not being properly operated and maintained, the Town will review and revise the selection, design, installation, and implementation of the control measures to ensure that the condition is eliminated and will not be repeated in the future. *Appendix H* presents a form to be used for visual monitoring, including documentation of procedures or measures to address deficiencies identified.

5.4.2 General Monitoring

General Monitoring will be conducted at Discharge-001 and Discharge-002 between October 1 and March 31 and again between April 1 and September 30, with at least 30 days between monitoring events for the following parameters:

General Permit Monitoring Parameters and Benchmarks

Parameter	Units	Benchmark
Chemical Oxygen Demand (COD)	mg/l	75
Total Oil & Grease	mg/l	5
pH	SU	5-9
Total Suspended Solids	mg/l	90
Total Phosphorus	mg/l	0.40
Total Kjeldahl Nitrogen (TKN)	mg/l	2.30
Nitrate as Nitrogen	mg/l	1.10
Total Copper	mg/l	0.059
Total Lead	mg/l	0.076
Total Zinc	mg/l	0.160

The pH of the uncontaminated rainfall will be measured at the time the runoff sample is taken.

If, after collection of four (4) semiannual samples, the average of the sample results for any parameter does not exceed the benchmark, the monitoring requirements for that parameter have been fulfilled for the permit term.

If the average of the four (4) semiannual samples exceeds the benchmark values or it becomes mathematically certain that the average will exceed the benchmarks, the following is required:

- Within 120 days, review the selection, design, installation, and implementation of control measures to determine if modifications are necessary to meet the benchmarks.
- Make necessary modifications to the control measures in this Plan.
- Continue semiannual monitoring for the parameters that did not meet the benchmarks, or
- Make a determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to implement additional control measures or meet the benchmarks.

5.4.3 Sector C Additional Monitoring

In addition to the General Monitoring Requirements addressed above, the Landfill will be monitored quarterly for the Benchmark below:

General Permit Sector C Alternate Benchmark

Parameter	Units	Benchmark
Total Iron	mg/l	1.0

Additionally, if the average of four (4) years of monitoring results for the above parameter exceeds the benchmark values, or when it becomes mathematically certain that the average will exceed the benchmark value:

- Within 120 days, review the selection, design, installation, and implementation of control measures to determine if modifications are necessary to meet the benchmarks.
- Make necessary modifications to the control measures in this plan.
- Continue monitoring for the parameters that did not meet the benchmarks, or
- Make a determinarion that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to implement additional control measures or meet the benchmarks.

5.4.4 Aquatic Toxicity Monitoring

The Town will monitor aquatic toxicity annually during a regularly scheduled semi-annual sample during the first two years of the permit at Discharge-001 and Discharge- 002.

5.4.5 Monitoring Discharges to Impaired Waters

In accordance with Section 5(e)(1)(D) of the General Permit and the CTDEP Impaired Waters Monitoring Requirements Table, since the LIS is considered an impaired waterbody at this location, the Landfill must also sample for the parameter listed below annually:

- Fecal Coliform

This monitoring requirement does not apply after the first year of monitoring if the pollutant is not detected above natural background levels as determined by the Commissioner. Natural background levels are discussed in further detail in *Section 5.8* of this Plan.

5.4.6 Effluent Limitations Monitoring

The Landfill will be monitored annually for the following effluent limits:

General Permit Sector C Effluent Limits

Parameter	Units	Effluent Limit
Biochemical Oxygen Demand	mg/l	140
Total Suspended Solids (TSS)	mg/l	88
Ammonia	mg/l	10
Alpha Terpineol	mg/l	0.033
Benzoic Acid	mg/l	0.12
p-Cresol	mg/l	0.025
Phenol	mg/l	0.026
Total Zinc	mg/l	0.200
pH	SU	6-9

Monitoring for these parameters may be conducted concurrently with any other required monitoring. Exceedance of any effluent limit is a violation of the general permit. If a stormwater discharge for any of the above parameters exceeds the limit, the selection, design, installation and implementation of the control measures will be reviewed and any necessary modifications to the control measures and plan will be made. Follow up monitoring will then be conducted during the next qualifying rain event for any parameter which exceeded the effluent limit.

In addition to any reporting required after an initial effluent limit exceedance as required by Section 22a-430-3(j)(11)(D) of the Regulations of CT State Agencies, an Exceedance Report will be submitted to DEP on or before 30 days from the date of receipt of the lab results if follow-up monitoring exceeds any of the effluent limits above. The report will include the following:

- DEP Permit Number
- Facility name, physical address and location
- Name of receiving water
- Monitoring data from this and the preceding monitoring event(s)
- An explanation of the measures taken and to be taken to correct the violation
- An appropriate contact name and phone number

5.5 Inability to Collect a Sample

If the Town is unable to collect a "Visual Monitoring" sample, the Town will document such inability in the Plan or, for all other monitoring, submit the Stormwater Monitoring Report form with a notation of "no discharge" and an explanation of the limitations restricting the collection of an appropriate sample. Reasons may include the absence of a 72-hour period of dry weather, the absence of a rain event that produces a stormwater discharge, the absence of a discharge from a detention or retention basin, or safety considerations preventing access to a

stormwater discharge location. Timing of a rain event is not an acceptable reason to fail to sample unless it precludes the analysis of a parameter within the acceptable hold time specified by a laboratory.

5.6 Semi-Annual Sampling Parameter Reduction

After collection of four (4) semi-annual samples, if the average of the four (4) monitoring values for any parameter does not exceed the benchmark as specified in *Sections 5.4.2 and 5.4.3* of this Plan, the monitoring requirements for that parameter have been fulfilled for the permit term.

For sample values that fall between the method detection level and the reporting level (i.e., a confirmed detection but below the level that can be reliably quantified), use a value of half the reporting level reported by the analyzing laboratory.

Once the benchmark for sample pH has been met and monitoring for pH has been fulfilled, the measurement of rainfall pH is no longer required.

5.7 Corrective Action

The General Permit requires that the Branford Landfill take corrective action to reduce the level of pollutants being introduced to stormwater within 120 days of either:

- Receiving the results of a fourth semiannual sample, if the average of the four (4) semiannual monitoring values for any parameter exceeds the benchmark, or
- Determining an exceedance of the four (4) event average is mathematically certain prior to performing all four monitoring events

The Branford Landfill will, in accordance with the "Keeping Plan Current" section of the General Permit (Section 5(c)(5)), review the selection, design, installation and implementation of the control measures to determine if modifications are necessary to meet the benchmarks in this permit, and either:

- Make the necessary modifications to the control measures and Plan and continue semiannual monitoring until the Branford Landfill has completed four (4) consecutive semiannual monitoring events for which the average does not exceed the benchmark; or
- Make a determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to implement additional control measures or meet the benchmarks, in which case the Branford Landfill will continue monitoring once per year. The Branford Landfill must also document the rationale for concluding that no further pollutant reductions are achievable and submit this documentation to the commissioner for written approval. The Branford Landfill will retain all records related to this documentation with the Plan.

If after modifying the control measures and conducting additional semi-annual monitoring, the average of the most recent four (4) monitoring events still exceeds the benchmark (or if an exceedance of the benchmark by the four (4) event average is mathematically certain for the

most recent four (4) monitoring events), the Branford Landfill will again review the control measures and take one of the two actions above.

Records of corrective actions will be maintained for a period of five (5) years following the expiration of the General Permit.

5.8 Natural Background Levels & Offsite "Run-on"

Following the first four (4) semi annual samples of benchmark monitoring (or sooner if the exceedance is triggered by less than four (4) monitoring events), if the average concentration of a pollutant exceeds a benchmark value, and the Branford Landfill determines that exceedance of the benchmark is attributable solely to the presence of that pollutant in the natural background or in "run-on" entering from off-site, the Branford Landfill is not required to perform corrective action or additional benchmark monitoring provided all of the following conditions are met:

- The average concentration of the benchmark monitoring results is less than or equal to the concentration of that pollutant in the natural background or off-site run-on;
- The Branford Landfill documents and maintains with the Plan the supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background or off-site pollutant levels. The Branford Landfill will include in the supporting rationale any data previously collected by them or others that describe the levels of natural background pollutants in the stormwater discharge;
- The Branford Landfill demonstrates that the diversion of off-site run-on containing these pollutant levels is not feasible or practicable;
- The Branford Landfill notifies the commissioner on the final semi-annual benchmark monitoring report that the benchmark exceedances are attributable solely to natural background or off-site pollutant levels; and
- The commissioner issues a written approval of the Branford Landfill's documentation demonstrating that the benchmark exceedances are attributable solely to natural background or off-site pollutant levels.

Natural background pollutants include those substances that are naturally occurring in rainfall, soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on the site.

5.9 Reporting

The sampling personnel will document the following information on the General and Sector C Monitoring Report Forms, provided in *Appendix H*:

- Sampling date
- Time of sampling
- Sample temperature and pH
- Rainfall pH
- Time of the start of the discharge

- Magnitude (in inches) of the storm event sampled
- The duration between the storm event sampled and the end of the previous measurable storm event
- Sampler name
- Laboratory conducting the analyses.

Within ninety (90) days of the date of sampling, individual outfall monitoring results of all semiannual and annual chemical/physical/toxicity analyses performed under the General Permit will be submitted to CT DEP Water Toxics Program Coordinator on the Stormwater Monitoring Report (SMR) form in *Appendix H*. If snow or ice melt was sampled it should be indicated as such on the SMR form. The mailing address is provided below:

Water Toxics Program Coordinator
Bureau of Materials Management and Compliance Assurance
Department of Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

A copy of each submission and all supporting documents will be maintained with this Plan or in the Landfill files on-site and retained for a minimum of five (5) years following the expiration of this General Permit, or longer if requested by the Commissioner.

6 Inspections

To minimize stormwater pollution potential, the Town of Branford will conduct the inspections listed in this section. Personnel responsible for the monthly inspections are members of the Stormwater Pollution Prevention Team.

6.1 Weekly Inspections

The Town will conduct weekly inspections of the following areas for evidence of stormwater pollution:

- Areas that have not been fully stabilized
- Areas used for storage of materials that are exposed to precipitation
- Structural control measures
- Locations where equipment and waste trucks enter the site
- Sediment and erosion control measures

A blank inspection form listing the items and conditions to inspect is included in *Appendix I*. Responsible personnel will monitor the progress and document the completion of corrective actions as described in *Section 2* of this Plan. The Town will maintain completed inspection forms with the Plan at the office of the Solid Waste Supervisor.

6.2 Monthly Inspections

Monthly, documented facility inspections will be performed where the Town will inspect the following areas for evidence of stormwater pollution:

- Building
- Grounds Surrounding Building
- Special Waste Storage Area
- Bulky Waste Area
- Landfill Slopes
- Erosion Control Measures
- Spill Response Equipment
- Roof Areas

Spill response equipment will also be inspected and materials restocked or replaced as necessary. A blank inspection form that lists the items and conditions to inspect is included in *Appendix I*. This inspection form also includes items and conditions to inspect as part of the semi-annual site compliance evaluations. Responsible personnel will monitor the progress and document the completion of corrective actions as described in *Section 2* of this Plan. The Town will maintain completed inspection forms with the Plan at the office of the Solid Waste Supervisor.

6.3 Comprehensive Site Compliance Evaluations

A member of the Pollution Prevention Team will perform a semi-annual (twice per year) comprehensive site compliance evaluation. The evaluation will be conducted during rainfall, if possible. In addition to the monthly inspections described in *Section 6.2* of this Plan, the comprehensive site compliance evaluations will entail inspections and assessment of:

- Material storage areas
- Top of Landfill
- Stormwater outfalls
- Landfill office/equipment storage areas
- Access Roads
- Capped Landfill
- The active portions of the facility for potential sources of stormwater pollution not previously identified
- Implementation Plan recommendations *(Appendix G)*

A blank inspection form is included in *Appendix I*. This form also contains the items and conditions that the Town of Branford will inspect monthly as described in *Section 6.2* of this Plan. On the form, the inspector will document:

- His/Her name
- Date
- Observations made during the inspection

- Actions taken in response to the observations
- Signatures of the inspector and the reviewing manager who is familiar with the Plan.

The Town of Branford will maintain the completed evaluation forms in a readily available file on-site for five years. If the evaluation indicates that a revision to the Stormwater Pollution Prevention Plan is required, the revisions will be completed as described in *Section 7* of this Plan.

6.4 Sector-Specific Inspection Requirements

Sector C activities, which include Landfill operations, have additional sector specific inspection requirements under the 2011 General Permit. In addition to the general inspection requirements, the active bulky waste cell will be inspected every seven (7) days. A qualified inspector will focus on the following:

- Areas that have not yet been finally stabilized
- Active land application areas
- Areas used for storage of material and wastes that are exposed to precipitation
- Stabilization
- Structural control measures
- Leachate collection and treatment systems
- Location where equipment and waste trucks enter and exit the site
- Operation of sediment and erosion control measures

For stabilized areas where land application has been completed and vegetation established, inspections will be conducted once every month.

6.5 Other Inspections

The Town will perform inspections required by other regulatory programs at the site, including solid waste inspections required by the General Permit for a Landfill and other regulatory programs as applicable.

7 Consistency with Other Plans and Permits

The facility is covered under the General Permit for a Landfill. The Town will follow the materials management and inspection procedures required by those programs to minimize pollution and remain consistent with state and federal solid waste laws and regulations. Elements of these solid waste inspections will serve to satisfy some of the inspection requirements of the General Permit.

8 Future Construction

The Town will conduct any construction activity that disturbs greater than one (1) acre in accordance with the General Permit for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities (as amended). All construction activities, regardless

of size, will comply with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control during construction and the 2004 Connecticut Stormwater Quality Manual for the design and implementation of post-construction stormwater management measures. In addition, the Town will avoid, wherever possible, the use of copper or galvanized roofing or building materials for any new building construction at the facility where these materials will be exposed to stormwater.

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9 Certifications

9.1 Non-Stormwater Discharge Certification

Non-stormwater discharges are discussed in *Section 4.11*. As required by the General Permit, a certification pertaining to non-stormwater discharges is provided below.

"I certify that in my professional judgment, the stormwater discharge from the site consists only of stormwater, or of stormwater combined with wastewater authorized by an effective permit issued under Section 22a-430 or Section 22a-430b of the Connecticut General Statutes, including the provisions of this general permit, or of stormwater combined with any of the following discharges provided they do not contribute to a violation of water quality standards:

- *Landscape irrigation or lawn watering*
- *Uncontaminated groundwater discharges such as pumped groundwater, foundation drains, water from crawl space pumps and footing drains*
- *Discharges of uncontaminated air conditioner or refrigeration condensate*
- *Water sprayed for dust control or at a truck load wet-down station*
- *Naturally occurring discharges such as rising groundwaters, uncontaminated groundwater infiltration (as defined at 40 CFR 35.2005(20)), springs, and flows from riparian habitats and wetlands.*

This certification is based on testing and evaluation of the stormwater discharge from the site. I further certify that all potential sources of non-stormwater at the site, a description of the results of any test and/or evaluation for the presence of non-stormwater discharges, the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test have been described in detail in the Stormwater Pollution Prevention Plan prepared for the site. I further certify that no interior building floor drains exist which are connected to any storm drainage system or which may otherwise direct interior floor drainage to exterior surfaces, unless such floor drain connection has been approved and permitted by the commissioner or otherwise authorized by a local authority for discharge as domestic sewage to sanitary sewer. I am aware that there may be significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."

Eric P. Tapner, P.E., Fuss & O'Neill, Inc.
Vice President

JUNE 1, 2011
Date

19160
P.E. #19160

STATE OF CONNECTICUT
No. 19160
LICENSED
PROFESSIONAL ENGINEER

9.2 Professional Engineer Certification

"I certify that I have thoroughly and completely reviewed the Stormwater Pollution Prevention Plan prepared for this site. I further certify, based on such review and site visit by myself or my agent and on my professional judgment, that the Stormwater Pollution Prevention Plan meets the criteria set forth in the General Permit for the Discharge of Stormwater Associated With Industrial Activity issued on October 1, 2002, and the General Permit for the Discharge of Stormwater Associated With Industrial Activity effective on October 1, 2011. I am aware that there are significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."

Eric P. Epner, P.E., Fuss & O'Neill, Inc.
Vice President

19160
P.E. #19160

June 1, 2011
Date

9.3 Facility Certification

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with section 22a-6 of the General Statutes, pursuant to section 53a-157b of the General Statutes, and in accordance with any other applicable statute."

Anthony DaRos
First Selectman
Town of Branford

5/31/11
Date

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Appendix A

General Permit and Registration

FUSS & O'NEILL
Disciplines to Deliver

COPY

June 1, 2011

Central Permit Processing Unit
Connecticut Department of Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

RE: Town of Branford Landfill and Recycling Center, and Transfer Station
Branford, CT
General Permit Registration Form for the Discharge of Stormwater Associated with Industrial Activity

To Whom It May Concern:

On behalf of the Town of Branford, we are hereby submitting copies of the enclosed General Permit Registration Forms for the Dischage of Stormwater Associated with Industrial Activity for both the Town of Branford Landfill and Town of Branford Recycling Center and Transfer Station. A check for $500.00 is also enclosed to cover the $250.00 registration fee for each facility.

If you have any questions regarding this submission, please call me at (860) 646-2469, ext. 5368.

Sincerely,

Eric P. Epner, P.E.
Vice President

c: Laura Panciera, Solid Waste Manager, Town of Branford

146 Hartford Road
Manchester, CT
06040-5921

t (860) 646-2469
(800) 286-2469
f (860) 533-5143

www.FandO.com

Connecticut
Massachusetts
New York
Rhode Island
South Carolina

DO NOT ACCEPT UNLESS THIS CHECK IS PRINTED WITH A BLUE BACKGROUND CONTAINS A VOID PANTOGRAPH MICROPRINTING FACE AND BACK, UV FIBERS AND A WATERMARK ON THE REVERSE SIDE

Town of Branford
Office of the Treasurer
1019 Main St., PO Box 150
Branford, CT 06405
(203) 315-0627

Vendor Number	Check Date	Check Number
3504	05/25/2011	00146498

51-57
119

VOID 60 DAYS FROM DATE OF ISSUE

$500.00

Pay Five Hundred Dollars and 00 cents ******

00146498

To The Order Of
STATE OF CT DEP
79 ELM STREET
HARTFORD CT 06106

Bank of America

Authorized Signature MP

Authorized Signature MP

⑈00146498⑈ ⑆011900571⑆ 0000 8246⑈

Town of Branford, Branford, CT 06405

Check Number: 00146498

Invoice Date	Invoice Number	Description	Invoice Amount
05/17/2011	2011 STORM/WATER TS	PERMIT CHARGE TRANSFER STATION	$250.00
05/17/2011	2011 STORM/WATER LF	PERMIT CHARGE FOR LANDFILL	$250.00

Vendor No.	Vendor Name	Check No.	Check Date	Check Amount
3504	STATE OF CT DEP	00146498	05/25/2011	$500.00

Note: All yellow fields are required

General Permit Registration Form for the Discharge of Stormwater Associated with Industrial Activity

CPPU USE ONLY
App#:
Doc #:
Check #:

Prior to completing this form, you must read the instructions for the subject general permit at: DEP-PED-INST-14. This form must be filled out electronically before being printed. You must submit the registration fee along with this form.

The status of your registration can be checked on the DEP website. Please note that DEP will no longer automatically mail certificates of registration. A certificate of registration can be requested upon approval of registration at DEP.stormwaterstaff@ct.gov.

Part I: Registration Type

Select the appropriate boxes identifying the registration type and registration deadline.

	Registration Type		Registration Deadline
☒	**Renewal** Existing Permit No. GSI 000095 Are you a new operator? ☐ Yes ☒ No		**June 1, 2011**
☐	**New Registration**	☐	For new registrants, without an electronically available Pollution Prevention Plan: Ninety (90) days prior to the initiation of the industrial activity
		☐	With an electronically available Pollution Prevention Plan: Sixty (60) days prior to the initiation of the industrial activity
☐	**Replacement of NPDES** If selected, please provide in the space below permit #'s for previously authorized discharge(s)	☐	For new registrants, without an electronically available Pollution Prevention Plan: Ninety (90) days prior to the initiation of the industrial activity
		☐	With an electronically available Pollution Prevention Plan: Sixty (60) days prior to the initiation of the industrial activity
☐	**Modification (new or modified discharges)**	☐	Without an electronically available Pollution Prevention Plan: Ninety (90) days prior to the initiation of the industrial activity
		☐	With an electronically available Pollution Prevention Plan: Sixty (60) days prior to the initiation of the industrial activity

If there are any changes or corrections to your company/facility or individual name, mailing address or billing address or contact information, please complete and submit the Change Request Information Form (Request to Change Company/Individual Information) to the address indicated on the form. For any other changes, you must contact the specific program from which you hold a DEP permit. If there is a change in ownership, please contact the Permit Assistance Office for questions concerning permit transfers at 860-424-3003.

Part II: Fee Information

Note: All yellow fields are required

☒ **A fee of $250.00 applies to:**

- Municipalities (50% discount of $500 fee per CGS 22a-6)

☐ **A fee of $500.00 applies to:**

- Companies that employ fewer than fifty (50) employees statewide (excluding seasonal employees employed no more than 120 days in a year) or have gross annual sales of less than five (5) million dollars
- Municipal, federal or state operated industrial activities
- Small scale compositing facilities.

☐ **A fee of $1,000.00 applies to:**

- Companies that employ fifty (50) or more employees statewide (excluding seasonal employees employed no more than 120 days in a year) and have gross annual sales of greater than five (5) million dollars

The registration will not be processed without the fee. The registration fee is non-refundable and shall be paid by check or money order payable to the Department of Environmental Protection.

Part III: Registrant Information

- If a registrant is a corporation, limited liability company, limited partnership, limited liability partnership, or a statutory trust, it must be registered with the Secretary of State. If applicable, registrant's name shall be stated **xactly** as it is registered with the Secretary of the State. The information can be accessed at
- If a registrant is an individual, provide the legal name (include suffix) in the following format: First Name; Middle Initial; Last Name; Suffix (Jr, Sr., II, III, etc.).

1. Registrant /Client Name: Town of Branford

   Registrant Type: Municipality

   If a business type, list type (e.g., corporation, limited partnership, etc.): N/A

   Secretary of the State Business ID #:

   Mailing Address: 1019 Main Street P.O Box 150

   City/Town: Branford State: CT Zip Code: 06405

   Business Phone: (203) 315-0622 Ext.: Fax: (203) 488-8125

   Contact Person: Laura Panciera Title: Solid Waste Manager

   Email: lpanciera@branford-ct.gov

   Additional Phone Number (if applicable): Ext:

2. Registrant's interest in property or facility at which the proposed activity is to be located: (Industrial activity operators are required to register for this permit).
   (Check all that apply)

   ☒ Site Owner ☐ Lessee ☒ Operator ☐ Other (specify)

Part III: Registrant Information (Continued)

Note: All yellow fields are required

3. Billing contact, if different than the registrant.

☒ Same as registrant

Contact Person: | Title:

Mailing Address:

City/Town: | State: CT | Zip Code:

Business Phone: | Ext.: | Fax:

Email:

4a. Primary contact for departmental correspondence and inquiries, if different than the registrant.

☒ Same as registrant

Contact Person: | Title:

Mailing Address:

City/Town: | State: CT | Zip Code:

Business Phone: | Ext.: | Fax:

Email:

4b. Onsite contact if registrant is out of state.

☒ Not Applicable ☐ Same as registrant

Contact Person: | Title:

Mailing Address:

City/Town: | State: | Zip Code:

Business Phone: | Ext.: | Fax:

Email:

5. List engineering consultant, attorney or other representative employed or retained to assist in preparing the registration or maintaining permit compliance.

Consultant/Firm Name: Eric P. Epner, P.E. Fuss & O'Neill, Inc. | Consultant Type: Engineer

Mailing Address: 146 Hartford Road

City/Town: Manchester | State: CT | Zip Code: 06040

Business Phone: (203) 646-2469 | Ext.: 5368 | Fax: (860) 645-2044

Email: eepner@fando.com

Service Provided: Prepared Stormwater Pollution Prevention Plan and Registration

Part IV: Site Information

Note: All yellow fields are required

1. Is name of site the same as the Registrant/Client Name? ☒ Yes ☐ No

   Site Name: Town of Branford Landfill

   Street Address Location Description: Tabor Drive

   City/Town: Branford State: CT Zip Code: 06405

2. Primary four digit Standard Industrial Classification (SIC) Code for industrial activities: 4953

   a. Primary SIC description: Refuse Systems

   b. For activities **without** a specific SIC code, provide a description:

3. Are you a small scale composting facility composting horse manure and/or bedding? ☐ Yes ☒ No

   Note: If Yes, then you are required to submit a Pollution Prevention Plan

4. a. Is the site located in a 100 yr floodplain, as defined and mapped under 44 CFR 59. ☐ Yes ☒ No

   b. Is the site within 250 feet of a well utilized for potable drinking water supply or within a Level A aquifer protection area as defined by mapping pursuant to section 22a-354c of the Connecticut General Statutes. ☐ Yes ☒ No

   c. Are you proposing to authorize a stormwater discharge from a **new** road salt or de-icing materials storage facilities at the site in question? ☐ Yes ☒ No

   Note: If you answered Yes to questions 4c and 4a and/or 4b, you are **not** eligible to register under this permit. Call DEP staff at 860-424-3018 to discuss other permitting options.

5. a. Is there exposure or the potential for exposure of your stormwater discharge to mercury? ☐ Yes ☒ No

   b. Is there exposure or the potential for exposure of your stormwater discharge to ☐ Yes ☒ No

   If you answered Yes to 5a. or 5b, you may be required to conduct additional monitoring. Refer to Impaired Waters Monitoring Requirements Table for specific monitoring information for your site. Monitoring requirements are listed by Watershed ID # or 305 B ID #, refer to Part V, section 3 of the Registration Instructions DEP-PED-INST-14 for information on how to find your ID #.

6. Do you have any stormwater point source discharges to the ground? ☐ Yes ☒ No

   If Yes, then fill out Table 4. in Part V of this form.

   INDIAN LANDS: Is or will the facility be located on federally recognized Indian lands? ☐ Yes ☒ No

Part IV: Site Information (continued)

Note: All yellow fields are required

8. **COASTAL BOUNDARY:** Is the activity which is the subject of this registration located within the coastal boundary as delineated on DEP approved coastal boundary maps? ☒ Yes ☐ No

The coastal boundries fall within the following towns: Branford, Bridgeport, Chester, Clinton, Darien, Deep River, East Haven, East Lyme, Essex, Fairfield, Greenwich, Groton (City and Town of) Old Lyme, Guilford, Hamden, Ledyard, Lyme, Madison, Milford, Montville, New London, New Haven, North Haven, Norwalk, Norwich, Old Saybrook, Orange, Preston, Shelton, Stamford, Stonington (Borough and Town of), Stratford, Waterford, West Haven, Westbrook and Westport.

If Yes, and this registration is for a new authorization, you must submit a Coastal Consistency Review Form (DEP-APP-004) with your registration as Attachment B. Information on the coastal boundary is available at the local town hall or on the Coastal Boundary Map . ***Additional DEP Maps and Publications are available at 860-424-3555.***

9. **ENDANGERED OR THREATENED SPECIES:** Is the project site located within an area identified as a habitat for endangered, threatened or special concern species as identified on the "State and Federal Listed Species and Natural Communities Map"? ☐ Yes ☒ No

Date of Map Used for Determination: 12/1/2010

If Yes, complete and submit a Request for NDDB State Listed Species Review Form (DEP-APP-007) to the address specified on the form.

Note: NDDB review generally takes 4 to 8 weeks and may require additional documentation from the registrant. DEP strongly recommends that registrants complete this process before submitting the subject registration.

The CT NDDB response **must** be submitted with this completed registration as Attachment C . For more information visit the DEP website at Natural Diversity Data or call the NDDB at 860-424-3011.

10. **AQUIFER PROTECTION AREAS:** Is the site located within a town required to establish Aquifer Protection Areas, as defined in section 22a-354a through 354bb of the General Statutes (CGS)? ☐ Yes ☒ No

If **yes**, is the site within an area identified on a Level A or Level B map? ☐ Yes ☒ No

To view the applicable list of towns and maps visit the DEP website at Aquifer Protection Areas .
For more information about the Aquifer Protection Areas, call 860-424-3020.

11. **CONSERVATION OR PRESERVATION RESTRICTION:** Is the property subject to a conservation or preservation restriction? ☐ Yes ☒ No

Note: All yellow fields are required

Part V: Stormwater Discharge Information

Table 1

1. Identify the type, material, size and location of conveyances, outfalls, or channelized flows that convey your discharges:

Outfall #	a) Type	b) Pipe Material	c) Pipe Size In Inches	d) Note: To find lat/long, go to: CT ECO. Directions on how to find Lat./Long on CT Eco can be found in Part V, section d. of the instructions DEP-PED-INST-14.		e) What method was used to obtain your latitude and longitude information?
				Longitude	Latitude	
Discharge-001	Break in berm wall			-72.79665	41.27035	CT ECO
Discharge-002	pipe	plastic	15	-72.79453	41.26996	CT ECO

Table 2

2. Identify discharges which drain to non fresh-tidal wetlands.

Outfall #	a) Is stormwater discharge within 500' of a non fresh tidal wetland?	b) If the stormwater discharge is within 500' of a non fresh tidal wetland, is the volume of runoff from 1" rainfall retained on site to meet the requirements of section 5(a)(1) of the subject permit?
Discharge-001	NO	
Discharge-002	NO	

Confirm that runoff (to non-fresh tidal wetlands) from 1" of rainfall is NOT retained for any discharges liste

Note: All yellow fields are required

Part V: Stormwater Discharge Information

Table 1

1. Identify the type, material, size and location of conveyances, outfalls, or channelized flows that convey your discharges:

Outfall #	a) Type	b) Pipe Material	c) Pipe Size In Inches	d) Note: To find lat/long, go to: CT ECO. Directions on how to find Lat./Long on CT Eco can be found in Part V, section d. of the instructions DEP-PED-INST-14.		e) What method was used to obtain your latitude and longitude information?
				Longitude	Latitude	

Table 2

2. Identify discharges which drain to non fresh-tidal wetlands.

Outfall #	a) Is stormwater discharge within 500' of a non fresh tidal wetland?	b) If the stormwater discharge is within 500' of a non fresh tidal wetland, is the volume of runoff from 1" rainfall retained on site to meet the requirements of section 5(a)(1) of the subject permit?

Confirm that runoff (to non-fresh tidal wetlands) from 1" of rainfall is NOT retained for any discharges liste

Note: All yellow fields are required

Part V: Stormwater Discharge Information (Continued)

Table 3

3. Provide the following information about the receiving water(s)/wetland(s) that receive stormwater runoff from your site, either directly and/or through the Municipal Separate Storm Sewer System (MS4):

Outfall #	a) To what system or receiving water does your stormwater runoff discharge? Select either "MS4" or "wetlands/waterbody". (If you select MS4, columns c.1&2 of this table are not required to be completed)	b) What is your watershed ID (Freshwater) or 305b ID (Estuary)? (Section 3.b., of the instructions DEP-PED-INST-14 explains how to find this information)	c.1) Is your receiving water identified as an impaired water?	If you answered yes to question c.1., then answer the question below. c.2) Has any Total Maximum Daily Load (TMDL) been approved for your receiving waterbody ?
Discharge-001	Wetlands/Waterbody	CT-C1-009_SB	YES	No
Discharge-002	Wetlands/Waterbody	CT-C1-009_SB	YES	No

Table 4

4. The following table must be filled out ONLY if you have a discharge to the ground. Provide information of any stormwater discharge(s) to the ground through Class V injection wells. Note that this permit does not authorize discharges to the ground. This information is for informational purposes only. For additional information visit EPA Groundwater Class V .

a) Well Identifier	b) Description of Discharge	c) Discharge Volume (average flow/gallons per day)	d) Latitude/Longitude Note: To find lat/long, go to: CT ECO . Directions on how to use CT Eco to find Lat/Long are found in Part V, section d of DEP-PED-INST-14 .		e) What method was used to obtain your latitude and longitude information?
			Longitude	Latitude	

Note: All yellow fields are required

Part V: Stormwater Discharge Information (Continued)

Table 3

3. Provide the following information about the receiving water(s)/wetland(s) that receive stormwater runoff from your site, either directly and/or through the Municipal Separate Storm Sewer System (MS4):

Outfall #	a) To what system or receiving water does your stormwater runoff discharge? Select either "MS4" or "wetlands/waterbody". (If you select MS4, columns c.1&2 of this table are not required to be completed)	b) What is your watershed ID (Freshwater) or 305b ID (Estuary)? (Section 3.b., of the instructions DEP-PED-INST-14 explains how to find this information)	c.1) Is your receiving water identified as an impaired water?	If you answered yes to question c.1., then answer the question below. c.2) Has any Total Maximum Daily Load (TMDL) been aporoved for your receiving waterbody ?

Table 4

4. The following table must be filled out ONLY if you have a discharge to the ground. Provide information of any stormwater discharge(s) to the ground through Class V injection wells. Note that this permit does not authorize discharges to the ground. This information is for informational purposes only. For additional information visit EPA Groundwater Class V .

a) Well Identifier	b) Description of Discharge	c) Discharge Volume (average flow/gallons per day)	d) Latitude/Longitude Note: To find lat/long, go to: CT ECO . Directions on how to use CT Eco to find Lat/Long are found in Part V, section d of DEP PED-INST-14 .		e) What method was used to obtain your latitude and longitude information?
			Longitude	Latitude	

Part VI: Pollution Prevention Plan Availability

Note: All yellow fields are required

If available, provide an internet address (URL) where the Plan required by Section 5(c) of the subject general permit is accessible for public review.

☐ Check here for facilities that will be making an electronic Plan available pursuant to Section 4(c)(2)(H) & (D) of the subject general permit. Provide an email address of the contact person from which to obtain the plan.

Email Address:

URL:

Internet Address (URL) where the Plan will be electronically available.

☒ Check here for facilities that will not be making an electronic Plan available pursuant to Section 4(c)(2)(H) & (D) of the subject general permit.

Part VII: Confidential Information in the Pollution Prevention Plan

If the registrant claims that certain elements of their Plan constitute a trade secret or are otherwise exempt from the disclosure requirements of the state Freedom of Information Act (FOIA), they shall follow the procedure below regarding information subject to FOIA requirements:

Does your plan withhold certain confidential information from the public? ☐ Yes ☒ No
Please see directions below regarding withholding information.

Instructions for plan confidentiality:

Under the Connecticut Freedom of Information Act (FOIA), a Registrant may have reason to withhold from public disclosure certain information in a plan or document prepared and maintained pursuant to a requirement of the general permit. Such information in a plan or document may be redacted provided the Registrant makes specific notation on the registration form filed with the Department: (1) that such claim is being made with a brief explanation of the type of information being withheld or redacted and the reason(s) therefore; and (2) of the location within the plan or document where such information has been redacted or removed. A plan or document that is being made available for public review either on a website or provided directly to a member of the public as a hardcopy may be in its redacted form. However, when the Department requests such plan or document be submitted for Department review, the Department will require that it be submitted in its unredacted form, in which case the Registrant must specify the information within such plan or document that is claimed to be confidential with the specific notations described above. The Department will not release any such information to the public which the Registrant claims must be withheld unless a determination has been made by the Department and any subsequent appeal of such determination filed with the Connecticut Freedom of Information Commission results in a determination that such information shall not be withheld from the public. If the Registrant seeks a determination regarding such claim of confidentiality from the Connecticut Freedom of Information Commission without obtaining a prior determination from the Department, the Registrant shall notify the Department in writing of such pending determination, at which time the Department will not release such information to the public unless otherwise determined by the Connecticut Freedom of Information Commission.

Note: All yellow fields are required

Part VIII: Registrant Certification

The registrant and the individual(s) responsible for actually preparing the registration must sign this part. A registration will be considered incomplete unless all required signatures are provided.

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief. I understand that a false statement made in the submitted information may be punishable as a criminal offense, in accordance with Section 22a-6 of the Connecticut General Statutes, pursuant to Section 53a-157b of the Connecticut General Statutes, and in accordance with any other applicable statute.

I certify that this permit application is on complete and accurate forms as prescribed by the commissioner without alteration of the text.

I also certify under penalty of law that I have read and understand all conditions of the General Permit for the Discharge of Stormwater from Industrial Activity issued on August 23, 2010(effective date of October 1, 2011), that all conditions for eligibility for authorization under the general permit are met, all terms and conditions of the general permit are being met for all discharges which have been initiated and are the subject of this registration, and that a system is in place to ensure that all terms and conditions of this general permit will continue to be met for all discharges authorized by this general permit at the site. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowingly making false statements."

Signature of Registrant — Date: 5/31/11

Anthony DaRos, Town of Branford — Name of Registrant (print or type)

First Selectman — Title (if applicable)

Signature of Preparer (if different than above) — Date: June 1, 2011

Eric P. Epner, P.E., Fuss & O'Neill, Inc. — Name of Preparer (print or type)

Vice President — Title (if applicable)

Part IX: Summary page / Supporting Documentation

Note: All yellow fields are required

The list below identifies each attachment required to be submitted with this registration form. When submitting any supporting documents, please label the documents as indicated below (e.g., Attachment A, etc.) and be sure to include the registrant's name as indicated on this registration form.

☒ **Attachment A:** An 8 ½" X 11" copy of the relevant portion of a USGS Quadrangle Map with a scale of 1:24,000, showing the exact location of the facility needs to be submitted with this registration. Indicate the quadrangle name on the map, and be sure to include the registrant's name. (To obtain a copy of the relevant USGS Quadrangle Map, call your town hall or DEP Maps and Publications Sales at 860-424-3555)

☐ **Attachment B:** Coastal Consistency Review Form (DEP-APP-004), if applicable.

☐ **Attachment C:** Request for NDDB State Listed Species Review Form (DEP-APP-007) and additional documentation, if applicable.

☐ **Attachment D:** Conservation or Preservation Restriction Information, if applicable.

☐ **Attachment E:** Documentation regarding discharges within 500 feet of a tidal wetland that is not a fresh-tidal wetland, needs to submitted with this registration, if applicable.

☐ **Attachment F:** Small scale composting facilities (composting horse manure and bedding only) are automatically required to submit a pollution prevention plan.

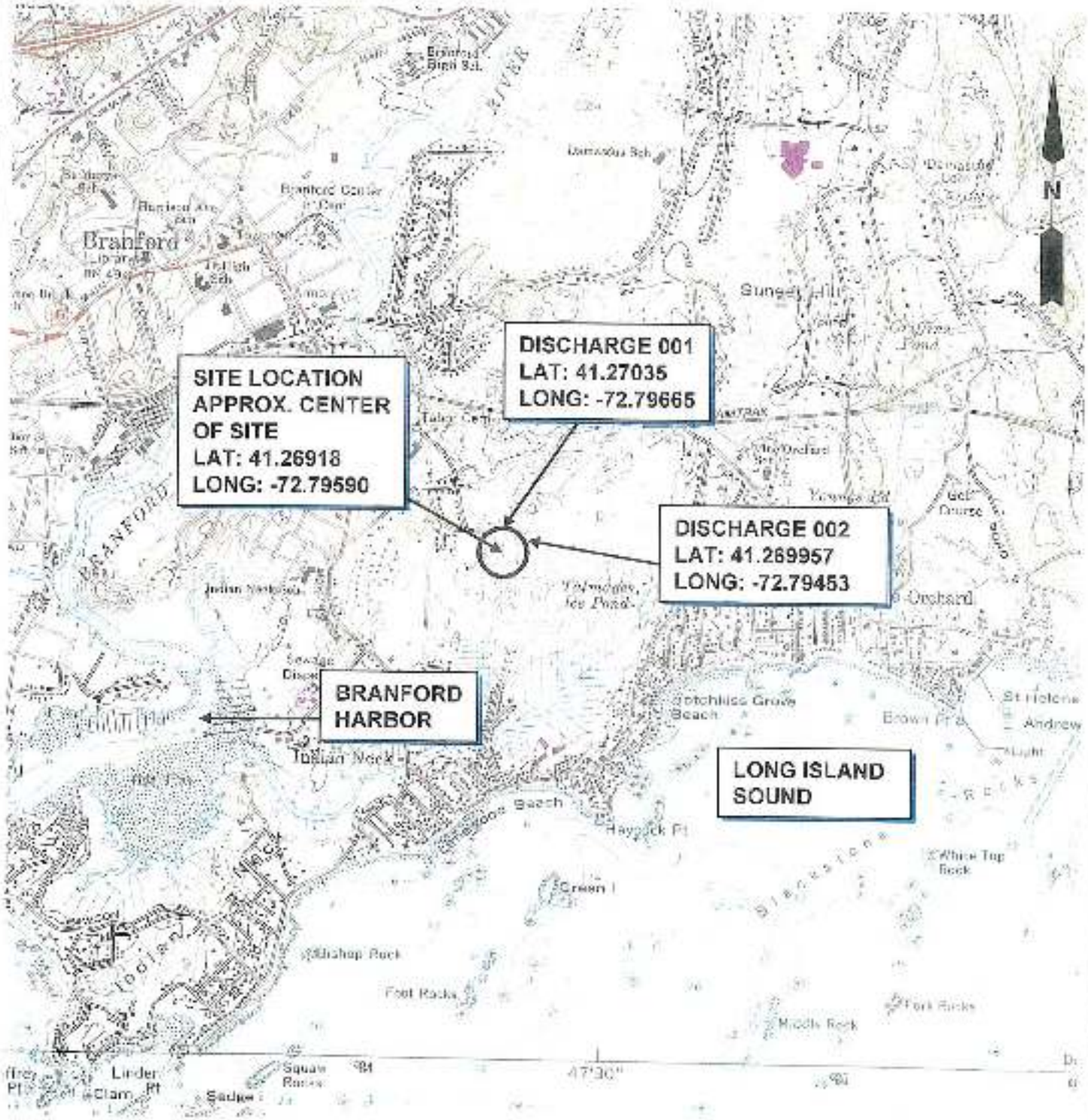
☒ **A payment in the amount of $250.00**

☐ **A payment in the amount of $500.00**

☐ **A payment in the amount of $1,000.00**

Note: Please submit the fee along with a completed, printed and signed Registration Form and all additional supporting documents to:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127



MAP REFERENCE:
THIS MAP WAS PREPARED FROM THE FOLLOWING
7.5 MINUTE SERIES TOPOGRAPHIC MAP:
BRANFORD, CONN. 1987 REVISED 1984

Quadrangle Location

SCALE: 1"=2000'

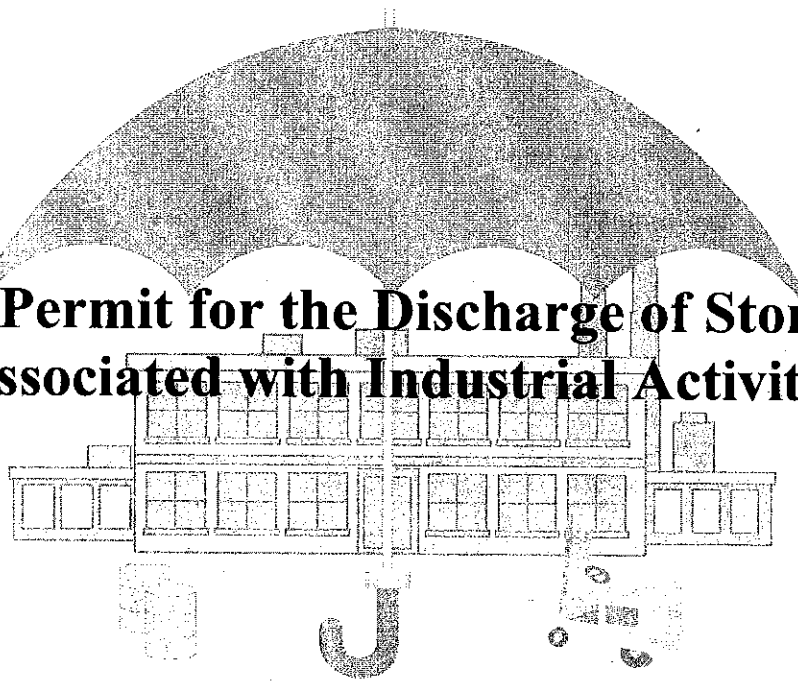
FUSS & O'NEILL
Disciplines to Deliver

BRANFORD LANDFILL
USGS LOCATION MAP
STORMWATER POLLUTION PREVENTION PLAN
MARSHALL ROAD
BRANFORD CONNECTICUT

PROJ. No. [illegible]
DATE: [illegible]

FIGURE 1

STATE OF CONNECTICUT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF MATERIALS MANAGEMENT & COMPLIANCE ASSURANCE
WATER PERMITTING AND ENFORCEMENT DIVISION
(860) 424-3018



General Permit for the Discharge of Stormwater Associated with Industrial Activity

Effective Date: October 1, 2011

Appendix A: Industrial Stormwater General Permit SIC Code Definitions
Appendix B: Industrial Stormwater Monitoring Guidance
Appendix C: Aquifer Protection Areas and Other Groundwater Drinking Supply Areas Guidance

"Fresh-tidal wetland" means a tidal wetland with an average salinity of less than 0.5 parts per thousand.

"Grab sample" means an individual sample collected in less than fifteen (15) minutes.

"Guidelines" means the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control, as amended, or as may be amended, established pursuant to section 22a-328 of the Connecticut General Statutes.

"High tide line" shall be the same as that contained in section 22a-359(c) of the Connecticut General Statutes.

"Impaired waters" means those surface waters of the state designated by the commissioner as impaired pursuant to Section 303(d) of the Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report.

"Individual permit" means a permit issued to a named permittee under section 22a-430 of the Connecticut General Statutes.

"Industrial activity" means any activity listed below with primary Standard Industrial Classification (SIC) codes as identified by "Standard Industrial Classification Manual, Executive Office of the President, Office of Management and Budget 1987" or a primary activity described in narrative form below:

(1) An activity subject to stormwater effluent limitation guidelines, new source performance standards, or toxic pollutant effluent standards under 40 CFR Subchapter N as included in this general permit;

(2) An activity classified as Standard Industrial Classification 24 (except 2434), 26 (except 265 and 267), 28 (except 283 and 285), 29, 311, 32 (except 323), 33, 3441 and 373;

(3) An activity classified as Standard Industrial Classification 10 through 14 (mining industry) including active or inactive mining operations that are not stabilized; or oil and gas exploration, production, processing, or treatment operations; or transmission facilities that discharge stormwater that has come into contact with any overburden, raw material, intermediate products, finished products, by-products or waste products;

(4) Hazardous waste treatment, storage, or disposal facilities, including those facilities operating under interim status or a permit pursuant to section 22a-449(c) or 22a-454 of the Connecticut General Statutes; or hazardous waste transportation activities conducted pursuant to these statutes;

(5) Recycling centers, resource recovery facilities and all such facilities and centers as defined in section 22a-207 of the Connecticut General Statutes, including facilities classified as Standard Industrial Classification 4953; solid waste facilities (where waste and/or leachate are exposed or potentially exposed to rainfall); intermediate processing facilities; or facilities that are subject to regulation under Subtitle D of the Resource Conservation and Recovery Act, 42 U.S.C. sections 6901, *et seq*;

(6) Facilities involved in the recycling (including assembling, breaking up, sorting and wholesale or retail distribution) of materials including metal scrap yards, battery reclaimers, salvage yards, and automobile junk yards, or those facilities classified as Standard Industrial Classification 5015 and 5093;

"Municipal separate storm sewer system" or "MS4" means conveyances for stormwater (including roads with drainage systems, municipal streets, catch basins, curbs, gutters, ditches, man-made channels or storm drains) owned or operated by any municipality and discharging to surface waters of the state.

"Municipality" means a city, town or borough of the state.

"Permittee" means any person who or municipality which initiates, creates, originates or maintains a discharge in accordance with Section 3 of this general permit.

"Person" means person as defined by section 22a-2(c) of the Connecticut General Statutes.

"Point Source" means any discernible, confined and discrete conveyance (including but not limited to, any pipe, ditch, channel, tunnel, conduit, discrete fissure, container, rolling stock, concentrated animal feeding operation, landfill leachate collection system, vessel or other floating craft) from which pollutants are or may be discharged.

"Qualified Person or Qualified Personnel", for purposes of inspections and training, means any person familiar with the content, requirements and objectives of this permit and the facility's Stormwater Pollution Prevention Plan.

"Recycling facility" or *"recycling center"* means land and appurtenances thereon and structures where recycling is conducted, including but not limited to, an intermediate processing facility as defined above.

"Registrant" means a person who or municipality which files a registration pursuant to Section 4 of this general permit.

"Registration" means a registration form filed with the commissioner pursuant to Section 4 of this general permit.

"Regulated Small Municipal Separate Storm Sewer System (MS4)" means any municipally-owned or -operated municipal separate storm sewer (as defined above) system authorized by the General Permit for the Discharge of Stormwater from Small Municipal Separate Storm Sewer Systems (MS4 general permit) including all those located partially or entirely within an Urbanized Area and those additional municipally-owned or municipally-operated Small MS4s located outside an Urbanized Area as may be designated by the commissioner.

"Retain" means to hold runoff on-site with no subsequent point source release to surface waters from a storm event defined in this general permit or as approved by the commissioner.

"Sediment" means solid material, either mineral or organic, that is in suspension in water, is transported, or has been moved from its site of origin by erosion.

"Site" means geographically contiguous land on which an authorized activity takes place or on which an activity for which authorization is sought under this general permit is proposed to take place. Non-contiguous land owned by the same person and connected by a right-of-way, which such person controls, and to which the public does not have access, shall be deemed the same site.

"Small-scale composting facility" means a facility conducting composting, excluding farms composting agricultural wastes integral to the farming operation, that is located on two acres or less, and that processes less than 5,000 cubic yards per year of one or more of the following source separated organic materials, including but not limited to: horse manure and bedding; food scraps

composting sites; sites used for the storage and maintenance of material handling equipment; sites used for residual treatment, storage, or disposal; shipping and receiving areas; manufacturing buildings; storage areas (including tank farms) for raw materials, and intermediate and finished products; and areas where industrial activity has taken place in the past and materials remain and are exposed to stormwater.

(2) Coastal Management Act

Such activity must be consistent with all applicable goals and policies in section 22a-92 of the Connecticut General Statutes, and must not cause adverse impacts to coastal resources as defined in section 22a-93(15) of the Connecticut General Statutes.

(3) Aquifer Protection

Such activity, if it is located within an aquifer protection area as mapped under section 22a-354b of the Connecticut General Statutes, must comply with regulations adopted pursuant to section 22a-354i of the Connecticut General Statutes.

(4) Endangered and Threatened Species

Such activity must not threaten the continued existence of any species listed pursuant to section 26-306 of the Connecticut General Statutes as endangered or threatened and must not result in the destruction or adverse modification of habitat designated as essential to such species.

(5) The stormwater is *not* discharged to a Publicly Owned Treatment Works (POTW).

(6) The stormwater is *not* discharged entirely to groundwater, meaning that there will be no surface discharge up to a 100-year, 24-hour rainfall event.

(7) For discharges subject to stormwater effluent limitation guidelines under 40 CFR, Subchapter N, such effluent limitations are identified in Section 5(*f*) of this general permit. Discharges not included in that section are not authorized by this general permit.

(8) For a stormwater discharge(s) initiated, created or originated after October 1, 1997 discharging within 500 feet of a tidal wetland, which is not a fresh-tidal wetland, the volume of stormwater runoff generated by one inch of rainfall is retained unless the commissioner approves an alternate stormwater management system in accordance with the conditions of Section 5(*a*)(1) of this general permit.

(9) New Discharges to Impaired Waters

For industrial activities of sites constructed after the effective date of this general permit, the activity is not authorized to discharge to an impaired water unless the permittee:

(A) prevents all exposure of stormwater to the pollutant(s)identified as an indicator of the impairment, and retains documentation of procedures taken to prevent exposure onsite with the Stormwater Pollution Prevention Plan (Plan); or

(B) documents that the indicator pollutant(s) is not present at the site, and retains documentation of this finding with the Plan; or

(C) in advance of submitting a registration, provides to the commissioner data to support a showing that the discharge is not expected to cause or contribute to an exceedance

- For all facilities that **do not** make an electronic Pollution Prevention Plan available pursuant to Section 4(*c*)(2)(H), ninety (90) days after the submission of the registration form required by Section 4(*c*) or on the date of the Commissioner's affirmative determination pursuant to the conditions of Section 3(*b*)(9)) or on the date of the Commissioner's approval pursuant to the conditions of Section 4(*c*)(3), ***whichever is later***, or

- For all facilities that **do** make a Pollution Prevention Plan available pursuant to Section 4(*c*)(2)(H), sixty (60) days after the submission of the registration form required by Section 4(*c*) or on the date of the Commissioner's affirmative determination pursuant to the conditions of Section 3(*b*)(9)) or on the date of the Commissioner's approval pursuant to the conditions of Section 4(*c*)(3), ***whichever is later.***

(h) Revocation of an Individual Permit

If an activity is eligible for authorization under this general permit and such activity is presently authorized by an individual permit, the existing individual permit may be revoked by the commissioner upon a written request by the permittee. If the commissioner revokes such individual permit in writing, such revocation shall take effect on the effective date of authorization of such activity under this general permit.

(i) Issuance of an Individual Permit

If the commissioner issues an individual permit under section 22a-430 of the Connecticut General Statutes permitting an activity authorized by this general permit, authorization under this general permit shall cease beginning on the date such individual permit is issued.

Section 4. Registration Requirements

(a) Who Must File a Registration

With the exception noted below, any person or municipality that initiates, creates, originates or maintains a discharge authorized by this general permit, and has not filed a No-Exposure Certification form, shall file a registration form which meets the registration requirements of this section of this general permit. Such form shall be submitted along with the applicable fee, pursuant to Section 4(*c*)(1), either:

- for any industrial activity initiated, created, originated or maintained on or before the effective date of this general permit that **does not** make an electronic Pollution Prevention Plan available pursuant to Section 4(*c*)(2)(H), on or before ninety (90) days prior to the effective date (as identified in Section 3(*f*)) of this general permit; or

- for any industrial activity initiated, created, originated or maintained on or before the effective date of this general permit that **does** make an electronic Pollution Prevention Plan available pursuant to Section 4(*c*)(2)(H), on or before sixty (60) days prior to the effective date (as identified in Section 3(*f*)) of this general permit; or

- for a discharge from a facility authorized under this general permit whose ownership is transferred to a new owner, on or before 30 days following the date of transfer; or

- for any other discharge, on or before 90 (ninety) days prior to the date the industrial activity is initiated for those facilities that **do not** make an electronic Pollution Prevention Plan available pursuant to Section 4(*c*)(2)(H) and on or before 60 (sixty)

(B) Legal name, address, and telephone number of the owner of the property on which the industrial activity takes place or is to take place.

(C) Legal name, address, and telephone number of any consultant(s) or engineer(s) retained by the registrant to prepare the registration or to design or construct the subject activity.

(D) Location address of the site for which the registration is submitted.

(E) Primary and secondary four-digit Standard Industrial Classification (SIC) codes for the industrial activity.

(F) A brief description of the stormwater discharge including:

(i) Number, type, material, and size of conveyances, outfalls or channelized flows that run off the site (e.g. 15" concrete pipe);

(ii) Size of the property and amount of impervious surface in square feet or acres, including parking areas, driveways, roads, walkways, other paved areas and roofs;

(iii) The name of the separate storm sewer system or immediate surface water body or wetland to which the stormwater conveyance, outfall and/or runoff discharges, and whether or not the site discharges within 500 feet of a tidal wetland; and

(iv) The name of the watershed and nearest waterbody to which the site discharges and its Water Quality Classification.

(G) An 8 ½" by 11" copy of the relevant portion or a full-sized original of a United States Geological Survey (USGS) quadrangle map, with a scale of 1:24,000, showing the exact location of the site and the area within a one mile radius of the site. Identify the quadrangle name on such copy.

(H) If available, provide an internet address (URL) where the Plan required by Section 5(*c*) is accessible for public review. If the registrant claims that certain elements of their Plan constitute a trade secret or are otherwise exempt from the disclosure requirements of the state Freedom of Information Act (section 1-210 et seq of the Connecticut General Statutes, also called FOIA) as specified in that Act, they shall follow the procedures provided in the registration form instructions for this general permit regarding information subject to FOIA requirements. The process of complying with the FOIA requirements does not exempt the registrant from the registration and Plan preparation deadlines in Sections 4(*a*) and 5(*c*)(3) of this general permit.

(I) The signature of the registrant and of the individual or individuals responsible for actually preparing the registration, each of who shall certify in writing as follows:

"I have personally examined and am familiar with the information submitted in this document and all attachments thereto, and I certify that, based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of

the Commissioner to obtain a copy of such Plan. The Commissioner shall inform the registrant of the request and the name of the requesting party. The registrant shall submit a copy of their Plan to the Commissioner within seven (7) days of their receipt of such request. On or before thirty (30) days from the date a member of the public receives a copy of the requested Plan from the Commissioner, they may submit written comments on the Registration and/or Plan to the Commissioner.

(3) Confidential Business Information

If the registrant claims that certain elements of their Plan constitute a trade secret or are otherwise exempt from the disclosure requirements of the state Freedom of Information Act (section 1-210 et seq of the Connecticut General Statutes, also called FOIA) as specified in that Act, they shall follow the procedures provided in the registration form instructions for this general permit regarding information subject to FOIA requirements. The process of complying with the FOIA requirements does not exempt the registrant from the registration and Plan preparation deadlines in Sections 4(*a*) and 5(*c*)(3) of this general permit.

(e) Where to File a Registration

A registration shall be filed with the commissioner at the following address:

CENTRAL PERMIT PROCESSING UNIT
DEPARTMENT OF ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

(f) Additional Information

The commissioner may require a registrant to submit additional information, which the commissioner reasonably deems necessary to evaluate the consistency of the subject activity with the requirements for authorization under this general permit.

(g) Additional Notification

For activities authorized under this permit that are discharged through a municipal separate storm sewer system, a copy of the registration shall also be submitted to the owner and operator of that system.

(h) Action by Commissioner

(1) The commissioner may reject without prejudice a registration if he or she determines that it does not satisfy the registration requirements (Section 4(*c*)) of this general permit. Any registration refiled after such a rejection shall be accompanied by the fee specified in the "Fees" section (Section 4(*c*)(1)) of this general permit.

(2) The commissioner may disapprove a registration if he or she finds that the subject activity is inconsistent with the "Requirements for Authorization" section (Section 3) of this general permit, or for any other reason provided by law.

(3) Disapproval of a registration under this subsection shall constitute notice to the registrant that the subject activity must be authorized by an individual permit.

(1) Good Housekeeping

The permittee must maintain a clean, orderly facility (e.g. sweeping at regular intervals, appropriate storage practices, proper garbage and waste management, dust control measures, etc.) in all areas that are exposed to rainfall and are potential sources of pollutants.

(2) Vehicle or Equipment Washing

The permittee must provide, at a minimum, that no washing or rinsing of equipment, buildings or vehicles shall be allowed at the site which would allow wash or rinse waters to enter any storm drainage system or surface waters of the State without a permit. Such discharges to groundwater are not authorized by this general permit.

(3) Floor Drains

The permittee must provide that all floor drains have been sealed, authorized by a local authority to discharge to sanitary sewer or allowed by DEP in accordance with the "Non-Stormwater Discharges" section (Section 5(*b*)(11)) of this general permit.

(4) Roof Areas

The permittee must identify roof areas that may be subject to drippage, dust or particulates from exhausts or vents or other sources of pollution. The permittee must inspect such areas to determine if any potential sources of stormwater pollution are present. If so, the permittee must minimize such sources or potential sources of pollution.

(5) Minimize Exposure

The permittee must minimize exposure to stormwater of materials identified in the "Inventory of Exposed Materials" section (Section 5(*c*)(2)(D)(ii)) of this general permit. Facilities in categories 2 and 10 of the definition of industrial activity in Section 2 of this general permit constructed after July 15, 2003 shall be constructed to preclude exposure of materials (as defined in the category 10 definition) by means of a permanent roof or cover or provide stormwater treatment, as identified in the Stormwater Quality Manual, for such exposed areas. Where the permittee believes it is not feasible to construct a permanent roof or cover, they shall submit their Plan (and plan review fee specified in Section 5(*c*)(4)(B)) showing the area(s) in question and reasons in writing for the commissioner's review and written approval.

(6) Sediment and Erosion Control

The permittee must identify areas that have a potential for soil erosion due to topography, activities, or other factors, and shall implement measures to limit erosion and stabilize such areas. All construction activities on site shall be conducted in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control (Guidelines) and the "Future Construction" section (Section 5(*c*)(2)(I)) of this general permit.

(7) Management of Runoff

The permittee shall investigate the need for stormwater management or treatment practices that shall be used to divert, infiltrate, reuse, or treat stormwater runoff in a manner that minimizes pollutants in stormwater discharges from the site. Any evaluation, construction

A) Containment

To prevent unauthorized discharges of liquid chemicals or wastewater from commingling with or polluting a facility's stormwater discharges, or otherwise causing pollution to the waters of the state, the permittee shall comply with the following requirements, as applicable:

(i) Stationary Storage or Storage Areas

For the purposes of Section 5(*b*)(9)(A) of this general permit only, **storage area** means an exterior area, which is or has the potential to be exposed to stormwater, that contains one or more tanks or containers utilized for the storage of liquid chemicals or for the collection, storage or treatment of wastewater. Any stationary above-ground tank, container or storage area used: (1) for the storage of liquid chemicals as identified in the "Spills and Leaks" section (Section 5(*c*)(2)(D)(iv)) of this general permit; or (2) for the collection, storage or treatment of wastewater shall, at a minimum, comply with one of the following types of secondary containment requirements:

1) A double-walled above-ground tank or container; or

2) For any storage area, tank or container installed prior to the date of authorization of this general permit, an impermeable secondary containment area which will hold at least 100% of the volume of the largest tank or container or 10% of the total volume of all tanks and containers in the area, whichever is larger, without overflow from such secondary containment area: or

3) For any storage area, tank or container installed after the date of authorization of this general permit, an impermeable secondary containment area which will hold at least 110% of the volume of the largest tank or container or 10% of the total volume of all tanks and containers in the area, whichever is larger, without overflow from such secondary containment area.

(ii) Mobile or Portable Storage

Any mobile or portable above-ground tank or container used for the collection or storage of wastewater shall comply with the secondary containment requirements of Section 5(*b*)(9)(A)(i) above, unless the following minimum requirements are met:

1) Such mobile or portable tank or container and related appurtenances (i.e., piping, fittings, valves, gauges, alarms, switches, etc.) are designed, operated and maintained in a manner to prevent releases of wastewater resulting from factors including, but not limited to, physical or chemical damage, tampering or vandalism, freezing and thawing; and

2) In addition to the requirements of Section 5(*b*)(9)(A)(ii)(1) above, for any mobile or portable tank or container and related appurtenances that are affixed to a trailer, such trailer shall be a registered motor vehicle designed, operated and maintained to be capable of on-road transport of wastewater at all times.

in the Plan, including the date(s), employee name, employee responsibility and training agenda.

(11) Non-Stormwater Discharges

The Permittee must eliminate non-stormwater discharges except as provided in "Non-Stormwater Discharge Certification" (Section 5(*c*)(2)(F)) or as authorized by an individual permit issued pursuant to section 22a-430 or a general permit issued pursuant to 22a-430b of the Connecticut General Statutes, including the provisions of this general permit.

(12) Solid De-icing Material Storage

The permittee must ensure that storage piles of de-icing materials (including pure salt, salt alternatives or either of these mixed with other materials) used for deicing or other commercial or industrial purposes that are in place for more than 180 days shall be enclosed or covered by a rigid or flexible roof or other structural means. Such structure shall not allow for the migration or release of material outside of the structure through its sidewalls. As a temporary measure (not to exceed two years from the effective date of this general permit), a waterproof cover may be used to prevent exposure to precipitation (except for exposure necessary to add or remove materials from the pile) until a structure can be provided. For temporary storage piles of de-icing materials in place for less than 180 days per year, a waterproof cover may be used to prevent exposure to precipitation (except for exposure necessary to add or remove materials from the pile). In areas with a groundwater classification of GA or GAA, an impervious liner shall be utilized under any de-icing material pile to prevent infiltration to groundwater.

In addition, no new road salt or de-icing materials storage facilities shall be located within a 100-year floodplain as defined and mapped for each municipality under 44 CFR 59 et seq. or within 250 feet of a well utilized for potable drinking water supply or within a Level A aquifer protection area as defined by mapping pursuant to section 22a-354c of the Connecticut General Statutes.

(13) Sector-Based Control Measures

Section 5(*f*) contains additional control measures for certain industrial activities ("sectors"). These are specific control measures that apply only to the industries in a given sector and are to be implemented in addition to the control measures in this section.

(c) Stormwater Pollution Prevention Plan (Plan)

(1) Development of Plan

(A) The permittee shall develop a Stormwater Pollution Prevention Plan ("Plan") for each site. The permittee shall perform all actions required by the Plan in accordance with the schedule set forth in "Deadlines for Plan Preparation and Compliance" (Section 5(*c*)(3)) of this general permit and including implementation of the Control Measures in Section 5(*b*), inspections in Section 5(*d*), monitoring in Section 5(*e*) and any sector-specific requirements in Section 5(*f*). The Plan shall include records and documentation of compliance with these elements and shall be kept on-site at all times along with a copy of this general permit. The permittee shall maintain compliance with the Plan thereafter.

1) a north arrow and surveyed or approximate property lines including the total site acreage;

2) location of existing buildings and structures;

3) the overall site size and amount of impervious coverage as well as an outline of the drainage area, including the extent of impervious surface, for each stormwater outfall and direction of flow within the drainage area;

4) existing structural control measures installed to reduce pollutants in stormwater runoff;

5) locations of all stormwater conveyances including catchbasins, ditches, pipes, and swales as well as the location of any non-stormwater discharges;

6) the areal extent of any wetlands to which stormwater discharges;

7) the receiving surface water body or bodies to which the site discharges including the identification of any impaired waters and whether or not a TMDL has been established for them;

8) location where major spills or leaks (identified under Section 5(*c*)(2)(D)(iv) below) have occurred;

9) locations of all stormwater monitoring points including latitude and longitude, where available;

10) locations of discharges to a municipal storm sewer system;

11) locations of discharges to groundwater through an infiltration system;

12) locations where any drainage run-on enters the site; and

13) each location of the following activities and associated types of pollutants where such activities are exposed to precipitation:
- fueling stations;
- vehicle and equipment maintenance and/or cleaning areas;
- loading/unloading areas;
- locations used for the treatment, storage or disposal of wastes;
- liquid storage tanks;
- de-icing material storage areas;
- processing areas;
- storage areas;
- areas with the potential for erosion that may impact surface waters or wetlands or may have off-site impacts; and
- any other potential pollutant sources.

(ii) Inventory of Exposed Materials

A tabular inventory of non-gaseous materials at the site, including a description of potential pollutants associated with those materials that may be exposed to stormwater between the time of three years prior to the date of certification of the Plan and the present for the following areas:

(F) Non-Stormwater Discharge Certification

The Plan shall include the following certification, signed by a professional engineer licensed to practice in the State of Connecticut or a Certified Hazardous Materials Manager:

"I certify that in my professional judgment, the stormwater discharge from the site consists only of stormwater, or of stormwater combined with wastewater authorized by an effective permit issued under section 22a-430 or section 22a-430b of the Connecticut General Statutes, including the provisions of this general permit, or of stormwater combined with any of the following discharges provided they do not contribute to a violation of water quality standards:

- landscape irrigation or lawn watering;
- uncontaminated groundwater discharges such as pumped groundwater, foundation drains, water from crawl space pumps and footing drains;
- discharges of uncontaminated air conditioner or refrigeration condensate;
- water sprayed for dust control or at a truck load wet-down station;
- naturally occurring discharges such as rising groundwaters, uncontaminated groundwater infiltration (as defined at 40 CFR 35.2005(20)), springs, and flows from riparian habitats and wetlands.

This certification is based on testing and/or evaluation of the stormwater discharge from the site. I further certify that all potential sources of non-stormwater at the site, a description of the results of any test and/or evaluation for the presence of non-stormwater discharges, the evaluation criteria or testing method used, the date of any testing and/or evaluation, and the on-site drainage points that were directly observed during the test have been described in detail in the Stormwater Pollution Prevention Plan prepared for the site. I further certify that no interior building floor drains exist unless such floor drain connection has been approved and permitted by the commissioner or otherwise authorized by a local authority for discharge as domestic sewage to sanitary sewer. I am aware that there may be significant penalties for false statements in this certification, including the possibility of fine and imprisonment for knowingly making false statements."

(G) Additional requirements for stormwater discharges associated with industrial activity through municipal separate storm sewer systems as may be required by the municipality.

In addition to the applicable requirements of this general permit, the Plan must show that sites authorized by this permit shall comply with applicable requirements in an MS4 permit for the municipal separate storm sewer system that receives the industrial facility's discharge, provided such discharger has been notified of such conditions.

(H) Consistency with Other Plans and Permits

The Plan may reference requirements contained in a Spill Prevention Control and Countermeasure (SPCC) plan or a plan prepared or approved under the Resource Conservation and Recovery Act (RCRA) and other plans required by state, federal or local law. A copy of the pertinent sections of any referenced plan must be kept with the Plan. The Plan shall identify all general and individual permits issued by the DEP for which the facility is authorized.

When a Plan is signed by a duly authorized representative, a statement of authorization shall be included in the Plan. The Plan shall also be certified, in accordance with "Plan Certification" (Section 5(*c*)(7)) of this general permit, by a professional engineer licensed in the State of Connecticut or a Certified Hazardous Materials Manager.

The Plan shall be retained on site at the facility that generates the stormwater discharge.

(B) The permittee shall make a copy of the Plan available to the following immediately upon request:

(i) the commissioner at his/her own request or as the result of a request from a member of the public pursuant to "Availability of Registration and Plan" (Section 4(*d*));

(ii) in the case of a stormwater discharge associated with industrial activity which discharges through a municipal separate storm sewer system, to the operator of the municipal system;

(iii) in the case of a stormwater discharge associated with industrial activity which discharges to a water supply watershed, to the public water supply company.

For all sites submitting a Plan to the Commissioner at the Commissioner's sole request (not a request from the public), a **plan review fee of $500** established by section 22a-430-6 of the Regulations of Connecticut State Agencies shall be submitted with the Plan. **The plan review fee for municipalities shall be half ($250).**

(C) The Commissioner may notify the permittee at any time that the Plan does not meet one or more of the requirements of this section. Within 120 days of such notification unless otherwise specified by the commissioner in writing, the permittee shall revise the Plan, perform all actions required by the revised Plan, and shall inform the commissioner in writing that the requested changes have been made and implemented, and such other information as the commissioner requires.

(5) Keeping Plan Current

The permittee shall amend the Plan whenever;

(A) there is a change at the site which has an effect on the potential to cause pollution of the surface waters of the state;

(B) the actions required by the Plan fail to ensure or adequately protect against pollution of the surface waters of the state; or

(C) the Commissioner requests modification of the Plan;

(D) the permittee is notified that they are subject to requirements because the receiving water to which the industrial activity discharges has been designated as impaired under Section 303(d) of the Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report;

(A) Visual inspection of material handling areas and other potential sources of pollution identified in the Plan for evidence of, or the potential for, pollutants entering the stormwater drainage system. Structural stormwater management measures, erosion control measures, control measures and other structural pollution prevention measures identified in the Plan shall be observed to ensure that they are implemented and maintained properly. A visual inspection of equipment needed to implement the plan, such as spill response equipment, shall be made. Inspections should be made during rainfall events if possible.

(B) Preparation of a report summarizing the scope of the inspection, personnel making the inspection, the date(s) of the inspection, major observations relating to the Plan, actions taken, and updates made to the Plan shall be made and retained as part of the Stormwater Pollution Prevention Plan for at least five years. The report shall be signed by the permittee.

(2) Routine Inspections

In addition to the Semi-Annual Inspections required above, the permittee shall identify in the Plan qualified personnel to visually inspect designated equipment and specific sensitive areas of the site at least monthly. A written set of tracking or follow-up procedures shall be used to ensure that appropriate actions are taken in response to the inspections. Records of routine inspections shall be maintained in the Plan kept on-site.

(e) Monitoring Requirements

(1) Outfall Monitoring

All permittees must conduct stormwater outfall monitoring under this general permit. There are different monitoring procedures, frequencies and parameters required of certain permittees dependent upon the nature of their industrial activity, the levels of pollutants in their stormwater discharge and the nature of the receiving waters to which they discharge. In addition, the permittee may be required to modify their Plan and control measures based on their monitoring results. **For guidance on outfall monitoring, see Appendix B.**

(A) Standard Monitoring Parameters

All permittees are required to monitor for the standard parameters as specified in this subsection. Additional monitoring parameters may be included in "Additional Requirements for Certain Sectors" (Section 5(*f*)) and/or in "Discharges to Impaired Waters" (Section 5(*g*)).

(i) Visual Monitoring

Once each quarter for the entire permit term, the permittee must collect a stormwater sample from each outfall (or a representative outfall pursuant to Section 5(*e*)(2)(B)) and conduct a visual assessment of each of these samples. These samples should be collected in such a manner that the samples are representative of the stormwater discharge. For monitoring purposes, quarters will begin on January 1, April 1, July 1 and October 1.

The visual assessment must be made of a sample in a clean, clear glass, or plastic container, and examined in a well-lit area. The permittee must visually

(B) Standard Monitoring Benchmarks

All permittees are required to comply with the benchmarks for the standard parameters as specified in this subsection **unless** otherwise specified in "Additional Requirements for Certain Sectors" (Section 5(*f*)). Additional monitoring benchmarks may also be included in Section 5(*f*).

(i) Schedule

Benchmark monitoring must be conducted semiannually, as specified in Section 5(*e*)(1)(A) upon the effective date of this general permit or upon the date of authorization under Section 3(*g*) of this permit. Benchmark monitoring may be conducted in conjunction with the quarterly "Visual Monitoring" in Section 5(*e*)(1)(A)(i), above. Also, see "Toxicity Monitoring" in subsection C below.

(ii) Benchmarks

These benchmarks apply to all permittees. Additional benchmarks may apply to industries in specific sectors as identified in Section 5(*f*).

Chemical Oxygen Demand (mg/l)	75
Total Oil and Grease (mg/l)	5
Sample pH	5-9
Total Suspended Solids (mg/l)	90
Total Phosphorus (mg/l)	0.40
Total Kjeldahl Nitrogen (mg/l)	2.30
Nitrate as Nitrogen (mg/l)	1.10
Total Copper (mg/l)	0.059
Total Lead (mg/l)	0.076
Total Zinc (mg/l)	0.160

The benchmarks for the parameters above (except metals) are based upon 80th percentiles of the cumulative relative frequency graphs developed from stormwater results reported under the General Permit for the Discharge of Stormwater Associated with Industrial Activity for the sampling years 2003 to 2007. Note that the benchmarks for copper, lead and zinc are based upon state Water Quality Standards and have been determined to be protective of water quality at typical dilution rates. However, regardless of the benchmarks, discharge monitoring data or other site specific information may demonstrate that a discharge is not protective of water quality. In such a case, the department may require additional measures to reduce the discharge of pollutants for any discharge specifically found to be causing or contributing to an exceedance of Water Quality Standards in the receiving water. Provided the permittee complies with all requirements of this Standard Monitoring Benchmarks subsection, exceedance of the benchmarks is not, in itself, a violation of this general permit.

(iii) Data not exceeding benchmarks

After collection of 4 semiannual samples, if the average of the 4 monitoring values for any parameter does not exceed the benchmark, the monitoring requirements for that parameter have been fulfilled for the permit term. For averaging purposes for any individual sample parameter analyzed using

- The average concentration of the benchmark monitoring results is less than or equal to the concentration of that pollutant in the natural background or off-site run-on;

- The permittee documents and maintains with the Plan the supporting rationale for concluding that benchmark exceedances are in fact attributable solely to natural background or off-site pollutant levels. The permittee must include in the supporting rationale any data previously collected by them or others that describe the levels of natural background pollutants in the stormwater discharge;

- The permittee demonstrates that the diversion of off-site run-on containing these pollutant levels is not feasible or practicable;

- The permittee notifies the commissioner on the final semiannual benchmark monitoring report that the benchmark exceedances are attributable solely to natural background or off-site pollutant levels; and

- The commissioner issues a written approval of the permittee's documentation demonstrating that the benchmark exceedances are attributable solely to natural background or off-site pollutant levels.

Natural background pollutants include those substances that are naturally occurring in rainfall, soils or groundwater. Natural background pollutants do not include legacy pollutants from earlier activity on the site.

(C) Toxicity Monitoring

The permittee shall monitor annually for aquatic toxicity during the first two years following the date of authorization under Section 3(*g*) of this permit. This parameter shall be included in a regularly scheduled semiannual sample.

(D) Monitoring of Discharges to Impaired Waters

Industrial activities that discharge to impaired waters, as identified in Section 5(*g*) below, must conduct additional monitoring of discharges in addition to the requirements of subsections (A) through (C) above.

(i) Discharges to Impaired Waters Without an Established Total Maximum Daily Load (TMDL)

If an industrial activity discharges to an impaired water without a TMDL, the permittee must monitor annually for any indicator pollutants identified as contributing to the impairment and for which a standard analytical method exists. No monitoring is required when a waterbody's biological communities are impaired but no pollutant, including indicator or surrogate pollutants, is identified as an indicator of the impairment, or when a waterbody's impairment is related to hydrologic modifications, impaired hydrology, or temperature.

This monitoring requirement does not apply after the first year of monitoring if the indicator pollutant is not detected above natural background levels, as determined by the Commissioner, in the stormwater discharge or is the result of

of the control measures and make the modifications to the control measures and Plan necessary to meet the effluent limit. The permittee must then conduct follow-up monitoring during the next qualifying rain event for any parameter which exceeded an effluent limit.

(ii) Exceedance Report

In addition to any reporting required after an initial effluent limit exceedance as required by Section 22a-430-3(j)(11)(D) of the Regulations of CT State Agencies, the permittee must submit an Exceedance Report to DEP on or before 30 days from the date the permittee receives the lab results if follow-up monitoring pursuant to subparagraph (i) above exceeds a numeric effluent limit. The report must include the following:

- DEP permit number;
- Facility name, physical address and location;
- Name of receiving water;
- Monitoring data from this and the preceding monitoring event(s);
- An explanation of the measures taken and to be taken to correct the violation; and
- An appropriate contact name and phone number.

(2) Stormwater Monitoring Procedures

(A) All samples shall be collected from discharges resulting from a storm event that occurs at least 72 hours after any previous storm event generating a stormwater discharge. Any sample containing snow or ice melt must be identified on the Stormwater Monitoring Report form.

For sites that discharge through a detention basin or other stormwater management structure, the sample shall be taken at the discharge from the basin or structure. If no discharge occurs during a monitoring period, a Stormwater Monitoring Report (SMR) form shall still be submitted in accordance with the "Reporting Requirements" section (Section 5(*h*)(3)) of this general permit. In such a case, a notation of "no discharge" shall be made on the SMR form.

Grab samples shall be used for all monitoring and shall not be combined. Collection of grab samples shall begin during the first thirty (30) minutes of a storm event discharge (flow at sampling location) and shall be completed as soon as possible. Samples shall be taken at the outfall or nearest feasible location representative of the discharge. The uncontaminated rainfall pH measurement shall also be taken, when required, at this time. All discharge samples at a facility must be taken during the same storm event, if feasible.

(B) Representative Discharge

When a facility has two or more outfalls that, based on a consideration of features (e.g. grass vs. pavement, slopes, catch basins vs. swales) and activities within the area drained by the outfall, the permittee reasonably believes discharge substantially identical effluents, the permittee may test the effluent of one such outfall and report that the quantitative data is representative of the substantially identical outfalls.

- Test results shall be reported as the LC50 value determined using the procedure specified in EPA 821-R-02-012;

- Hardness in the stormwater sample and in the dilution control water shall be reported as mg/L as $CaCO_3$;

- Toxicity tests shall be initiated within thirty-six (36) hours of stormwater sample collection; and

- Any test in which the survival of test organisms is less than 90% in the combined control test vessels or failure to achieve test conditions as specified, such as maintenance of environmental controls, shall constitute an invalid test and will require stormwater resampling and retesting as soon as practicable.

(E) Inability to Collect a Sample

If a permittee is unable to collect a sample pursuant to "Visual Monitoring" (Section 5(*e*)(1)(A)(i)) or "Additional Requirements for Certain Sectors" (Section 5(*f*)) due to the inability to meet the conditions in subsection (A) above, the permittee shall, for visual monitoring, document such inability in their Plan or, for all other monitoring, submit the Stormwater Monitoring Report form in accordance with the "Reporting Requirements" section (Section 5(*h*)(3)) with a notation of "no discharge" and an explanation of the limitations restricting the collection of an appropriate sample. Reasons may include the absence of a 72-hour period of dry weather, the absence of a rain event that produces a stormwater discharge, the absence of a discharge from a detention or retention basin in accordance with subsection (A) above, or safety considerations preventing access to a stormwater discharge location. Timing of a rain event is not an acceptable reason to fail to sample unless it precludes the analysis of a parameter within the acceptable hold time specified by a laboratory.

(f) Additional Requirements for Certain Sectors

(1) Sector A – Asphalt Plants

This sector applies to those facilities categorized as SIC Codes 2911 and 2951 that manufacture asphalt paving mixtures and other bituminous road materials. The permittee must comply with these sector-specific requirements in those areas of the facility where these sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

(A) Additional Monitoring Requirements

In addition to the semiannual monitoring required in "Monitoring" (Section 5(*e*)), the permittee must sample this parameter semiannually under the same conditions as those required in Section 5(*e*):

Semivolatile Hydrocarbons

Analysis of this parameter shall be conducted using EPA Method 625.

(iii) Run-on Diversion

The permittee shall, where feasible, divert uncontaminated stormwater run-on away from potential pollutant sources by means of interceptor or diversion controls (e.g., dikes, swales, curbs, or berms); pipe slope drains; subsurface drains; conveyance systems (e.g., channels or gutters, open-top box culverts, and waterbars; rolling dips and road sloping; roadway surface water deflector and culverts); or their equivalents.

(C) Additional Plan Requirements

In addition to the Plan requirements specified in "Stormwater Pollution Prevention Plan" (Section 5(*d*)), the permittee must include the following additional elements in their Plan:

(i) Nature of Industrial Activities

The permittee must document in the Plan the mining and associated activities that can potentially affect the stormwater discharges covered by this permit, including a general description of the location of the site relative to major transportation routes and communities.

(ii) Site Map

The permittee must document in the Plan the locations of the following (as appropriate): mining or milling site boundaries; access and haul roads; outline of the drainage areas of each stormwater outfall within the facility with information on the types of discharges from the drainage areas; location(s) of all permitted discharges covered under an NPDES permit, outdoor equipment storage, fueling, and maintenance areas; materials handling areas; outdoor manufacturing, outdoor storage, and material disposal areas; outdoor chemicals and explosives storage areas; overburden, materials, soils, or waste storage areas; location of all stormwater discharges; location of mine drainage dewatering or other process water; off-site points of discharge for mine dewatering and process water; surface waters; and location(s) of reclaimed areas.

(iii) Potential Pollutant Sources

For each area of the mine or mill site where stormwater discharges associated with industrial activities occur, the permittee must document in the Plan the types of pollutants (e.g., heavy metals, sediment) likely to be present. Consider these factors: the mineralogy of the waste rock (e.g., acid forming); toxicity and quantity of chemicals used, produced, or discharged; the use of blasting materials; the likelihood of contact with stormwater; vegetation of site (if any); and history of significant leaks or spills of toxic or hazardous pollutants. Also include a summary of any existing waste rock or overburden characterization data and test results for potential generation of acid rock drainage.

(C) Additional Plan Requirements

In addition to the Plan requirements specified in "Stormwater Pollution Prevention Plan" (Section 5(*d*)), the permittee must include the following additional elements in their Plan:

(i) Drainage Area Site Map

The permittee must document in the Plan where any of the following may be exposed to precipitation or surface runoff: active and closed landfill cells or trenches; active and closed land application areas; locations where open dumping is occurring or has occurred; locations of any known leachate springs or other areas where uncontrolled leachate may commingle with runoff; leachate collection and handling systems; and transfer station waste storage areas, hoppers, and waste loading or transfer areas.

(ii) Summary of Potential Pollutant Sources

The permittee must document in the Plan the following sources and activities, as well as any others, that have the potential to contribute pollutants to stormwater runoff: fertilizer, herbicide, and pesticide application; earth and soil moving; waste hauling and loading or unloading; outdoor storage of materials, including daily, interim, and final cover material stockpiles as well as temporary waste storage areas; exposure of active and inactive landfill and land application areas; uncontrolled leachate flows; and failure or leaks from leachate collection and treatment systems.

(D) Additional Inspection Requirements

In addition to the requirements of "Inspections" (Section 5(*d*)), the permittee shall comply with these additional inspection requirements:

(i) Inspections of Active Landfills

The permittee must inspect operating landfills, open dumps, and land application sites at least once every 7 days. A qualified inspector shall focus on areas of landfills that have not yet been finally stabilized; active land application areas, areas used for storage of material and wastes that are exposed to precipitation, stabilization, and structural control measures; leachate collection and treatment systems; and locations where equipment and waste trucks enter and exit the site. Ensure that sediment and erosion control measures are operating properly. For stabilized sites and areas where land application has been completed and vegetation established, conduct inspections at least once every month.

(ii) Inspections of Inactive Landfills

The permittee must inspect inactive landfills, open dumps, and land application sites at least quarterly. Qualified personnel must inspect landfill (or open dump) stabilization and structural erosion control measures, leachate collection and treatment systems, and all closed land application areas.

(H) Additional Reporting and Recordkeeping Requirements

In addition to the requirements of "Reporting and Recordkeeping" (Section 5(*h*)), the permittee must keep records with the Plan of the types of wastes disposed of in each cell or trench of a landfill or open dump. For land application sites, track the types and quantities of wastes applied in specific areas.

(4) Sector D – Auto Salvage Yards (SIC Code 5015)

This sector applies to those facilities categorized as SIC Code 5015 and are included in Category 6 of the definition of Industrial Activity in Section 2 of this general permit. The permittee must comply with these sector-specific requirements in those areas of the facility where these sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

(A) Additional Control Measures

In addition to the control measures specified in "Control Measures" (Section 5(*b*)), the permittee must implement the following additional control measures:

(i) Spill and Leak Prevention Procedures

The permittee must drain vehicles and mechanical equipment intended to be dismantled of all fluids upon arrival at the site (or as soon thereafter as feasible), or employ some other equivalent means to prevent spills and leaks. The permittee must conduct dismantling activities on a covered impermeable surface and employ impermeable containment measures for any uncovered outdoor storage of oily parts, engine blocks, and above-ground liquid storage. Disposal of stormwater collected within the containment areas shall be conducted in accordance with the "Spill Prevention and Response Procedures" section (Section 5(*b*)(9)(A)) of this general permit.

(ii) Employee Training

The permittee shall address, if applicable, the following areas (at a minimum) in the employee training program: proper handling (collection, storage, and disposal) of oil, gasoline, diesel fuel, used mineral spirits, anti-freeze, mercury switches, solvents and any other automotive fluids.

(iii) Management of Runoff

The permittee shall consider the following management practices: berms or drainage ditches on the property line (to help prevent run-on from neighboring properties); installation of detention ponds; and installation of filtering devices and oil and water separators.

(B) Additional Plan Requirements

In addition to the Plan requirements specified in "Stormwater Pollution Prevention Plan" (Section 5(*d*)), the permittee must include the following additional elements in their Plan:

(E) Sector-specific Benchmarks

(i) Quarterly Monitoring

In addition to the Benchmarks specified in "Monitoring" (Section 5(*e*)), the following Benchmarks shall apply to the monitoring parameters required in subparagraph A, above, and be subject to the requirements in "Benchmarks" (Section 5(*e*)(1)(B)(ii)):

Parameter	Benchmark
Total Iron (mg/l)	1.0
Total Mercury (mg/l)	0.0014
Total Aluminum (mg/l)	0.75

(ii) Semiannual Monitoring

Facilities monitoring under the requirements of this sector shall not be subject to a Benchmark requirement for Semivolatile Hydrocarbons. These facilities must monitor semiannually for this parameter for the entire term of the permit.

(5) Sector E – Scrap Recycling Facilities (SIC Code 5093)

This sector applies to those facilities categorized as SIC Code 5093 and are included in Category 6 of the definition of Industrial Activity in Section 2 of this general permit. The permittee must comply with these sector-specific requirements in those areas of the facility where these sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

(A) Additional Requirements for Authorization

Non-stormwater discharges from turnings or other containment areas are not authorized by this general permit. Disposal of stormwater collected within the containment areas shall be conducted in accordance with the "Spill Prevention and Response Procedures" section (Section 5(*b*)(9)(A)) of this general permit.

(B) Additional Control Measures

In addition to the control measures specified in "Control Measures" (Section 5(*b*)), the permittee must implement the following additional control measures:

(i) Inbound Recyclable and Waste Material Control Program

The permittee must minimize the acceptance of materials that could be sources of pollutants by conducting inspections of inbound recyclables and waste materials. The following are some possible control measure options: (a) provide information and education to suppliers of scrap and recyclable waste materials on draining and properly disposing of residual fluids (e.g., from vehicles and equipment engines, radiators and transmissions, oil filled transformers, and individual containers or drums) and removal of mercury switches from vehicles before delivery to the facility; (b) establish procedures to minimize the potential of any residual fluids from coming into contact with precipitation or runoff; (c) establish procedures for accepting scrap lead-acid batteries (additional requirements for the handling, storage, and disposal or recycling of batteries are

generate visible amounts of particulate residue (e.g., shredding) to minimize the contact of accumulated particulate matter and residual fluids with runoff (i.e., through good housekeeping, preventive maintenance, etc.). Following are some required control measures: (a) regularly inspect equipment for spills or leaks and malfunctioning, worn, or corroded parts or equipment; (b) establish a preventive maintenance program for processing equipment; (c) use dry absorbents or other cleanup practices to collect and dispose of or recycle spilled or leaking fluids or use mercury spill kits for spills from storage of mercury switches; (d) on unattended hydraulic fluid reservoirs over 150 gallons in capacity, install protection devices such as low-level alarms or equivalent devices, and provide secondary containment in compliance with Section 5(*b*)(9)(A); (e) containment or diversion structures such as dikes, berms, culverts, trenches, elevated concrete pads, and grading to minimize contact of stormwater runoff with outdoor processing equipment or stored materials; (f) oil and water separators or sumps; (g) permanent or semi-permanent covers in processing areas where there are residual fluids and grease; (h) retention or detention ponds or basins; sediment traps, and vegetated swales or strips (for pollutant settling and filtration); (i) catch basin filters or sand filters.

(vi) Scrap Lead-Acid Battery Program

The permittee must properly handle, store, and dispose of scrap lead-acid batteries. The permittee shall implement the following control measures (a) segregate scrap lead-acid batteries from other scrap materials; (b) properly handle, store, and dispose of cracked or broken batteries; (c) collect and dispose of leaking lead-acid battery fluid; (d) minimize or eliminate (if possible) exposure of scrap lead-acid batteries to precipitation or runoff; and (e) provide employee training for the management of scrap batteries.

(vii) Spill Prevention and Response Procedures

The permittee shall install alarms and/or pump shutoff systems on outdoor equipment with hydraulic fluid reservoirs exceeding 150 gallons in the event of a line break. Compliance with the containment provisions in Section 5(*b*)(9)(A) shall also be maintained. Use a mercury spill kit for any release of mercury from switches, anti-lock brake systems, and switch storage areas.

(viii) Supplier Notification Program

As appropriate, the permittee shall notify major suppliers which scrap materials will not be accepted at the facility or will be accepted only under certain conditions. Any such restrictions shall be identified in the Plan.

(C) Additional Plan Requirements

In addition to the Plan requirements specified in "Stormwater Pollution Prevention Plan" (Section 5(*d*)), the permittee must include the following additional elements in their Plan:

(i) Drainage Area Site Map

The permittee shall document in the Plan the locations of any of the following activities or sources that may be exposed to precipitation or surface runoff:

(ii) Semiannual Monitoring

Facilities monitoring under the requirements of this sector shall not be subject to Benchmark requirements for Semivolatile Hydrocarbons or PCBs. These facilities must monitor semiannually for these parameters for the entire term of the permit.

(6) Sector F – Steam Electric Power Generation (SIC Code 4911)

This sector applies to those facilities that are categorized as SIC Code 4911 and are included in Category 7 of the definition of Industrial Activity in Section 2 of this general permit. The permittee must comply with these sector-specific requirements in those areas of the facility where these sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

(A) Additional Control Measures

In addition to the control measures specified in "Control Measures" (Section 5(*b*)), the permittee must implement the following additional control measures:

(i) Fugitive Dust Emissions

The permittee shall minimize fugitive dust emissions from coal handling and storage areas. To minimize the tracking of coal dust offsite, the following are possible control measures: installing specially designed tires or washing vehicles in a designated area before they leave the site and controlling the wash water; locating coal handling areas, whether accessed by rail or road access, within a building or under a roof and provide measures to minimize tracking from these areas; maintaining a removable or permanent cover over coal storage areas.

(ii) Water-based Coal Unloading Areas

The permittee shall minimize contamination of precipitation or surface runoff in vessel, pier and shoreside coal unloading areas as well as spillage and airborne dust from coal transfer operations resulting in direct discharge to adjacent watercourses. The following are possible control measures: using containment curbs in these areas; having personnel familiar with spill prevention and response procedures present during deliveries to ensure that any spillage is immediately contained and cleaned up; and using spill and overflow protection devices (e.g., conveyor pans and covers).

(iii) Land-based Fuel Oil Unloading Areas

The permittee shall minimize contamination of precipitation or surface runoff from fuel oil unloading areas. The following are possible control measures: using containment curbs in unloading areas; having personnel familiar with spill prevention and response procedures present during deliveries to ensure that any leaks or spills are immediately contained and cleaned up; and using spill and overflow protection devices (e.g., drip pans, drip diapers, absorbent pads, or other containment devices placed beneath fuel oil connectors to contain potential spillage during deliveries or from leaks at the connectors).

(D) Additional Monitoring Requirements

In addition to the semiannual monitoring required in "Monitoring" (Section 5(*e*)), the permittee must sample this parameter quarterly under the same conditions as those required in Section 5(*e*):

Total Iron (mg/l)

(E) Sector-specific Benchmarks

In addition to the Benchmarks specified in "Monitoring" (Section 5(*e*)), the following Benchmark shall apply to the monitoring parameter required in subparagraph A, above, and be subject to the requirements in "Benchmarks" (Section 5(*e*)(1)(B)(ii)):

Parameter	Benchmark
Total Iron (mg/l)	1.0

(F) Effluent Limitations

The following effluent limits apply only to steam electric power generation facilities with coal pile runoff. These parameters must be monitored once a year for the term of the permit. Monitoring for these parameters may be conducted concurrently with any other monitoring required in this general permit. Exceedance of any effluent limit is a violation of the general permit.

Parameter	Effluent Limitation
pH	6-9
Total Suspended Solids (mg/l)	50

(7) Sector G – Transportation and Public Works Facilities

This sector applies to those facilities categorized as SIC Codes 40, 41, 42, 43, 44 (except 4493) and 45 as well as those facilities described as public works garages, all included in Category 8 of the definition of Industrial Activity in Section 2 of this general permit. The permittee must comply with these sector-specific requirements in those areas of the facility where these sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

(A) Additional Control Measures

In addition to the control measures specified in "Control Measures" (Section 5(*b*)), the permittee must implement the following additional control measures:

(i) Vehicle and Equipment Storage

The permittee shall minimize the potential for stormwater exposure to leaky or leak-prone vehicles/equipment awaiting maintenance. The following are possible control measures: use of drip pans under vehicles/equipment; indoor storage of vehicles and equipment; installation of berms or dikes; use of absorbents; roofing or covering storage areas; and cleaning pavement surfaces to remove oil and grease (with proper washwater disposal).

structures to prevent spills or leaks from entering a storm drainage system; use drainage control and other diversionary structures (dikes, impermeable berms, curbing, pits).

Additionally, on or before one (1) year from the effective date of this general permit, permittees with liquid de-icing storage containers lacking the containment volume required in this subsection that were installed prior to the effective date of this general permit shall submit to the commissioner a plan and implementation schedule for the installation of secondary containment measures on those containers. Such plan shall provide information on the costs associated with providing secondary containment measures at each site and a site priority list for the installation of these measures.

(vii) Aircraft De-Icing Operations

Where aircraft de-icing is conducted, the permittee shall determine the seasonal timeframe during which deicing activities typically occur at the facility. Implementation of control measures, facility inspections and monitoring must be conducted with particular emphasis throughout the defined deicing season. If the permittee meets the deicing chemical usage thresholds of 100,000 gallons glycol and/or 100 tons of urea, the permittee must conduct at least one of the required benchmark monitoring events (pursuant to Section 5(*e*)) during the deicing season and include the deicing-related parameters identified in subsection D, below (i.e., BOD, COD, and ammonia).

Where deicing operations occur, the permittee must implement a program to control or manage contaminated runoff to minimize the amount of pollutants discharged. The permittee shall implement these control measure options (or their equivalents), as appropriate: a dedicated deicing facility with a runoff collection/ recovery system; using vacuum/collection trucks; storing contaminated stormwater/deicing fluids in tanks and releasing controlled amounts to a publicly owned treatment works; and directing runoff into vegetative swales or other infiltration measures. The permittee must also recover deicing materials when these materials are applied during non-precipitation events (e.g., covering storm sewer inlets, using booms, installing absorptive interceptors in the drains, etc.) to prevent these materials from later becoming a source of stormwater contamination. Used deicing fluid should be recycled whenever possible.

(B) Additional Plan Requirements

(i) Drainage Area Site Map

The permittee must identify in the Plan the following areas of the facility and indicate whether activities occurring there may be exposed to precipitation/surface runoff:

- Fueling stations;
- vehicle/equipment maintenance or cleaning areas;
- storage areas for vehicle/equipment with actual or potential fluid leaks;
- loading/unloading areas;
- areas where treatment, storage or disposal of wastes occur;
- aircraft de-icing areas;
- liquid storage tanks (including liquid de-icing and anti-icing materials);

BOD (mg/l)
Urea (mg/l)
Propylene Glycol (mg/l)
Ethylene Glycol (mg/l)

At least one of the two required sampling events shall be conducted concurrently with one of the semiannual sampling events conducted pursuant to "Monitoring Requirements" (Section 5(*e*)). For air transportation facilities with stormwater discharges from areas where aircraft deicing operations occur (including departure gates, dedicated aircraft deicing stations and any other areas where aircraft deicing occurs), monitoring shall be performed, where practicable, during or immediately following deicing operations when there is a discharge and samples shall be collected in such a manner that they are representative of stormwater quality resulting from deicing operations.

(b) Small Airports

Air transportation facilities (SIC Code 45) conducting aircraft de-icing utilizing less than 100,000 gallons glycol and/or 100 tons of urea shall monitor their stormwater discharges for the parameters required by "Monitoring" (Section 5(*e*)) once per year during the deicing season (as defined in Section 5(*f*)(7)(A)(vii) above). Additionally, stormwater discharges must be monitored for the following parameters, if in use, once a year for the first two years of the permit term, regardless of the amounts used:

BOD (mg/l)
Urea (mg/l)
Propylene Glycol (mg/l)
Ethylene Glycol (mg/l)

For air transportation facilities with stormwater discharges from areas where aircraft deicing operations occur (including departure gates, dedicated aircraft deicing stations and any other areas where aircraft deicing occurs), monitoring shall be performed, where practicable, during or immediately following deicing operations when there is a discharge and samples shall be collected in such a manner that they are representative of stormwater quality resulting from deicing operations.

(ii) Additional Parameters for Federal, State, or Municipal Facilities with Incidental Solid De-Icing Material Storage

In addition to the general monitoring requirements specified in Section 5(*e*)(1)(A)(ii) and subject, as applicable, to the conditions for DOT facilities in subparagraph (iv) below, for facilities in this sector that have solid de-icing material storage on-site in conjunction with other activities, a sample shall be taken of a discharge that is representative of the quality of runoff from the deicing storage activity. Such sample shall also include the following parameters:

Chloride (mg/l)
Cyanide (mg/l)

subparagraph (D)(i)(b) above, these facilities shall be subject to the Benchmarks of Section 5(*e*)(1)(B)(ii) after each annual monitoring event rather than an average of four semiannual events.

(ii) Additional Benchmarks for Federal, State, or Municipal Facilities with Incidental Solid De-Icing Material Storage

Facilities monitoring under the requirements of subparagraph (D)(ii) above shall not be subject to Benchmark requirements for Chloride or Cyanide.

(iii) Additional Benchmarks for Federal, State, or Municipal Facilities Consisting Solely of Solid De-Icing Material Storage

Facilities monitoring under the requirements of this sector are not required to sample and shall not be subject to Benchmark requirements.

(iv) Department of Transportation Repair and Maintenance Facilities

Department of Transportation repair and maintenance facilities shall not be subject to the requirements of the "Standard Monitoring Benchmarks" subsection (Section 5(*e*)(1)(B)) to conduct additional sampling based on Benchmarks. However, for those facilities that exceed one or more benchmarks for their sampling event, the permittee shall review the selection, design, installation and implementation of the control measures to determine if modifications are necessary to meet the benchmark(s) and make the necessary modifications to the control measures and Plan for all such facilities. Such facilities shall also continue to conduct visual monitoring pursuant to the requirements of "Visual Monitoring" (Section 5(*e*)(1)(A)(i)).

(8) Sector H – Marinas, Yacht Clubs and Boat Dealers (SIC Codes 4493, certain 7997 and 5551)

This sector applies to those facilities categorized as SIC Code 4493 and are included in Category 8 of the definition of Industrial Activity in Section 2 of this general permit. This sector also includes yacht clubs (within SIC Code 7997) and boat dealers (SIC Code 5551). The permittee must comply with these sector-specific requirements in those areas of the facility where these sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

(A) Additional Requirements for Authorization

Non-stormwater discharges from sanitary wastes and pressure wash water originating from vessels are not authorized by this permit. Discharges from non-pressure washing, bilge water, ballast water and cooling water originating from recreational vessels up to eighty (80) feet in length may be discharged as they are considered to be incidental to the normal operation of a recreational vessel.

(B) Additional Control Measures

In addition to the control measures specified in "Control Measures" (Section 5(*b*)), the permittee must implement the following additional control measures:

(vi) Material Handling

The permittee shall minimize the contamination of precipitation or surface runoff from material handling operations and areas (e.g., fueling, paint and solvent mixing, disposal of process wastewater streams from vessels). The permittee shall consider the following (or their equivalents): covering fueling areas, using spill and overflow protection, mixing paints and solvents in a designated area (preferably indoors or under a shed), and minimizing runoff of stormwater to material handling areas.

(vii) Employee Training

As part of the employee training program, the permittee shall address, at a minimum, the following activities (as applicable): used oil management, spent solvent management, disposal of spent abrasives, disposal of vessel wastewaters, spill prevention and control, fueling procedures, general good housekeeping practices, painting and blasting procedures, pressure washing procedures, engine maintenance and repair procedures, zinc anode disposal and used battery and management.

(C) Additional Plan Requirements

(i) Drainage Area Site Map

The permittee shall document in the Plan where any of the following may be exposed to precipitation or surface runoff: fueling; engine maintenance and repair; vessel maintenance and repair; pressure washing; painting; sanding; blasting; welding; metal fabrication; loading and unloading areas; locations used for the treatment, storage, or disposal of wastes; liquid storage tanks; liquid storage areas (e.g., paint, solvents, resins); and material storage areas (e.g., blasting media, aluminum, steel, scrap iron).

(ii) Summary of Potential Pollutant Sources

The permittee shall document in the Plan the following additional sources and activities that have potential pollutants associated with them: outdoor manufacturing or processing activities (e.g., welding, metal fabricating) and significant dust or particulate generating processes (e.g., abrasive blasting, sanding, and painting.)

(D) Additional Inspection Requirements

The permittee shall also inspect the following areas of the site monthly: pressure washing area; blasting, sanding, and painting areas; material storage areas; engine maintenance and repair areas; material handling areas; drydock area; and general yard area. At least quarterly and as necessary, the permittee shall perform inspection of stormwater management devices (e.g., oil and water separators, sediment traps or chambers, pressure wash collection systems), as well as inspecting and/or testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.

discharge of these waters is deemed under the Clean Water Act to be a process wastewater and must be collected and discharged to sanitary sewer under a separate permit or pumped and hauled by a licensed waste hauler.

(ii) Non-Pressure Washing Discharges

The conditions in subparagraph (i), above, do not apply to non-pressure washing discharges incidental to the normal operation of a recreational vessel.

(iii) Blasting and Paint Spraying

If abrasive blasting of vessels or equipment is conducted on-site, the permittee must follow, where practicable, the abrasive blasting guidance in the Connecticut Clean Marina Guidebook, as amended. The permittee shall minimize the potential for spent abrasives, paint chips, and overspray to discharge into receiving waters or the storm sewer systems. The permittee shall contain, where practicable, all blasting and paint spraying activities to minimize the discharge of contaminants either by hanging plastic barriers or tarpaulins during blasting or painting operations to contain debris or by conducted such operations inside with appropriate containment measures. Where, for reasons of vessel size, location or configuration, these measures are not practicable, suitable alternative control measures shall be implemented. Stormwater conveyances within the drainage area of these operations shall be inspected at the end of each day of blasting and cleaned of deposits of abrasive blasting debris and paint chips if necessary. Spent blasting media shall be collected and disposed in an appropriate manner dependent upon its composition. When feasible, blasting media should be recycled.

(iv) Material Storage

The permittee shall store and plainly label all containerized materials (e.g., fuels, paints, solvents, waste oil, antifreeze, batteries) in a protected, secure location away from drains. The permittee shall minimize the contamination of precipitation or surface runoff from the storage areas. The permittee shall specify where materials are stored, and provide containment as specified in "Containment" (Section 5(*b*)(9)(A)). If abrasive blasting is performed, the Plan shall discuss the storage and disposal of spent abrasive materials generated at the facility.

(v) Engine Maintenance and Repair

The permittee shall implement the following (or their equivalents), as appropriate: performing engine maintenance and repair activities indoors, when feasible; maintaining an organized inventory of materials used in the shop; draining all parts of fluid prior to disposal; prohibiting the practice of hosing down the shop floor; using dry cleanup methods; and treating and/or recycling stormwater runoff collected from the maintenance area. No engine fluids, cleaning solvents, paint, scale, rust, oil and grease, or other contaminants resulting from maintenance or repair activities may be discharged to ground, storm sewer or receiving water. Such materials shall be collected and properly disposed.

(vi) Material Handling

The permittee shall minimize the contamination of precipitation or surface runoff from material handling operations and areas (e.g., fueling, paint and

painting over open water or prohibiting blasting and painting during windy conditions, which can render containment ineffective).

(iv) Storage Areas

The permittee shall specify in the Plan which materials are stored indoors which are stored outdoors, and how containment is provided in accordance with Section 5(*b*)(9)(A).

(D) Additional Inspection Requirements

The permittee shall also inspect the following areas of the site monthly: pressure washing area; blasting, sanding, and painting areas; material storage areas; engine maintenance and repair areas; material handling areas; drydock area; and general yard area. At least quarterly and as necessary, the permittee shall perform inspection of stormwater management devices (e.g., oil and water separators, sediment traps or chambers, pressure wash collection systems), as well as inspecting and/or testing facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.

(E) Sector-specific Benchmarks

Facilities in this sector shall not be subject to the Benchmark requirements for Total Copper specified in Sections 5(*e*)(1)(B)(ii), (iii) and (iv). These facilities must monitor semiannually for Total Copper for the entire term of the permit.

(10) Sector J – Small-Scale Composting Facilities

This sector applies to those facilities included in Category 14 of the definition of Industrial Activity in Section 2 of this general permit. The permittee must comply with these sector-specific requirements in those areas of the facility where these sector-specific activities occur. These sector-specific requirements are in addition to any requirements specified elsewhere in this permit.

(A) Additional Control Measures

In addition to the control measures specified in "Control Measures" (Section 5(*b*)), the permittee must implement the following additional control measures:

(i) Management of Runoff

Where composting operations are exposed to rainfall or runoff, the permittee must retain the runoff from the 25-year, 24-hour rainfall event.

(ii) Plan Submittal

For small-scale composting facilities composting horse manure and bedding, the Plan shall be submitted to the commissioner for review and approval with the completed registration in accordance with the "Contents of Registration" section (Section 4(*c*)).

Parameter	Benchmark
COD (mg/l)	75
Total Phosphorus (mg/l)	0.40
Total Kjeldahl Nitrogen (mg/l)	2.30
Nitrate as Nitrogen (mg/l)	1.10
Total Suspended Solids (mg/l)	90

(g) Discharges to Impaired Waters

The DEP has established an EPA-approved list of "impaired waters" pursuant to Section 303(d) of the Clean Water Act and as identified in the most recent State of Connecticut Integrated Water Quality Report. These are waters that have been assessed as not meeting Water Quality Standards (WQS) for a given designated use and may identify a pollutant or pollutants (e.g. bacteria, heavy metals, nutrients, etc) as indicators of that impairment. The DEP is required by the EPA to establish a Total Maximum Daily Load (TMDL) for each impaired water to reflect the pollutant load that the water body can assimilate without exceeding the WQS. Industrial activities that discharge to impaired waters are required to meet certain criteria identified in this section.

(1) Existing Discharge to an Impaired Water without an Established TMDL

If the permittee discharges to an impaired water without an established TMDL, they are required to comply with Section 5(*c*)(5) and the annual monitoring requirement of Section 5(*e*)(1)(D). Note that this provision also applies to situations where the DEP determines that the discharge is not controlled as necessary to meet water quality standards in a downstream water segment, even if the discharge is to a receiving water that is not specifically identified as an impaired water on a Section 303(d) list.

(2) Existing Discharge to an Impaired Water with an Established TMDL

If the permittee discharges to an impaired water with an established TMDL, the DEP will inform them if any additional controls are necessary for the discharge to be consistent with the available Waste Load Allocation in the TMDL, or if coverage under an individual permit is necessary in accordance with "Issuance of an Individual Permit" (Section 3(*i*)). The permittee must also conduct the appropriate monitoring in accordance with "Monitoring of Discharges to Impaired Waters" (Section 5(*e*)(1)(D)).

(3) New Discharge to an Impaired Water

If a new discharge to an impaired water is authorized pursuant to the conditions of Section 3(*b*)(9), the permittee must implement and maintain any control measures or conditions on the site that enabled such authorization, and modify such measures or conditions as necessary to maintain such authorization. The permittee must also maintain compliance with this subsection and Section 5(*e*)(1)(D).

(h) Reporting & Record Keeping Requirements

(1) Recording of Results

For each measurement or sample taken pursuant to the requirements of this general permit, the discharger shall maintain records of the following information:

(A) the place, date, and time of sampling and the time the discharge started;

(1) Section 22a-430-3:

Subsection (b) General - subparagraph (1)(D) and subdivisions (2),(3),(4) and (5)
Subsection (c) Inspection and Entry
Subsection (d) Effect of a Permit - subdivisions (1) and (4)
Subsection (e) Duty to Comply
Subsection (f) Proper Operation and Maintenance
Subsection (g) Sludge Disposal
Subsection (h) Duty to Mitigate
Subsection (i) Facility Modifications, Notification - subdivisions (1) and (4)
Subsection (j) Monitoring, Records and Report Requirements - subdivisions (1), (6), (7), (8), (9) and (11) (except subparagraphs (9) (A) (2) and (9) (c)
Subsection (k) Bypass
Subsection (m) Effluent Limitation Violations
Subsection (n) Enforcement
Subsection (p) Spill Prevention and Control
Subsection (q) Instrumentation, Alarms, Flow Recorders
Subsection (r) Equalization

(2) Section 22a-430-4

Subsection (t) Prohibitions
Subsection (p) Revocation, Denial, Modification
Appendices

Section 6. General Conditions

(a) Reliance on Registration

When evaluating a registration, the commissioner relies on information provided by the registrant. If such information proves to be false or incomplete, the authorization issued under this general permit may be suspended or revoked in accordance with law, and the commissioner may take any other legal action provided by law.

(b) Duty to Correct and Report Violations

Upon learning of a violation of a condition of this general permit, a permittee shall immediately take all reasonable action to determine the cause of such violation, correct such violation and mitigate its results, prevent further such violation, and report in writing such violation and such corrective action to the commissioner within five (5) days of the permittee's learning of such violation. Such report shall be certified in accordance with Section 6(*d*) of this general permit.

(c) Duty to Provide Information

If the commissioner requests any information pertinent to the authorized activity or to determine compliance with this general permit, the permittee shall provide such information in writing within thirty (30) days of such request. Such information shall be certified in accordance with Section 6(d) of this general permit.

(d) Certification of Documents

Any document, including but not limited to any notice, which is submitted to the commissioner under this general permit shall be signed by, as applicable, the registrant or the permittee in

air, water, or other natural resources of this state. The issuance of this general permit shall not create any presumption that this general permit should or will be renewed.

Section 7. Commissioner's Powers

(a) Abatement of Violations

The commissioner may take any action provided by law to abate a violation of this general permit, including the commencement of proceedings to collect penalties for such violation. The commissioner may, by summary proceedings or otherwise and for any reason provided by law, including violation of this general permit, revoke a permittee's authorization hereunder in accordance with sections 22a-3a-2 through 22a-3a-6, inclusive, of the Regulations of Connecticut State Agencies. Nothing herein shall be construed to affect any remedy available to the commissioner by law.

(b) General Permit Revocation, Suspension, or Modification

The commissioner may, for any reason provided by law, by summary proceedings or otherwise, revoke or suspend this general permit or modify it to establish any appropriate conditions, schedules of compliance, or other provisions which may be necessary to protect human health or the environment.

(c) Filing of an Individual Application

If the commissioner notifies a permittee in writing that such permittee must obtain an individual permit to continue lawfully conducting the activity authorized by this general permit, the permittee may continue conducting such activity only if the permittee files an application for an individual permit within sixty (60) days of receiving the commissioner's notice. While such application is pending before the commissioner, the permittee shall comply with the terms and conditions of this general permit. Nothing herein shall affect the commissioner's power to revoke a permittee's authorization under this general permit at any time.

Issued: August 23, 2010

Amey W. Marrella
Commissioner

Definition 10

SIC	Except	Classification
20		Food & Kindred Products
21		Tobacco Products
22		Textile Mill Products
23		Apparel & Other Products Made from Fabrics & Similar Materials
2434		Wood Kitchen Cabinets
25		Furniture & Fixtures
265		Paperboard Containers & Boxes
267		Converted Paper & Paperboard Products, Except Containers & Boxes
27		Printing, Publishing & Allied Industries
283		Drugs
285		Paints, Varnishes, Lacquers, Enamels, & Allied Products
30		Rubber & Misc. Plastics Products
31		Leather & Leather Products
	311	Leather Tanning & Finishing
323		Glass Products, Made of Purchased Glass
34		Fabricated Metal Products, Except Machinery & Transportation Equipment
	3441	Fabricated Structural Metal
35		Industrial & Commercial Machinery & Equipment
36		Electronic & Other Electrical Equipment & Components Except Computer Equipment
37		Transportation Equipment
	373	Ship & Boat Building & Repairing
38		Measuring, Analyzing & Controlling Instruments; Photographic, Medical & Optical Goods; Watches & Clocks
39		Misc. Manufacturing Industries
4221		Farm Product Warehousing & Storage
4222		Refrigerated Warehousing & Storage
4225		General Warehousing & Storage

Definition 11

SIC	Except	Classification
5171		Petroleum Bulk Stations & Terminals

Type	Quarterly	Semi-Annual	Benchmarks	Effluent Limits	Annual
SECTOR E SCRAP RECYCLING	Visual AND Fe, Hg, Al	Same as general AND Semivolatiles, PCB	Same as general AND Fe, Hg, Al	None	Aquatic Toxicity (Years 1 &2) AND Impaired Water parameters (if applicable) AND TMDL Parameter(s) (if dictated by DEP)
SECTOR F STEAM ELECTRIC GENERATION	Visual AND Fe	Same as general	Same as general AND Fe	Coal pile runoff ONLY: pH, TSS	Aquatic Toxicity (Years 1 &2), and pH and TSS (for sites with coal pile runoff) AND Impaired Water parameters (if applicable) AND TMDL Parameter(s) (if dictated by DEP)
SECTOR G TRANSPORTATION AND PUBLIC WORKS	Visual	Same as general	Same as general	None	Aquatic Toxicity (Years 1 &2) AND Impaired Water parameters (if applicable) AND TMDL Parameter(s) if dictated by DEP
craft Deicing Sites rge Airports	Visual	Same as general AND Urea, Glycols, BOD (during deicing season, if used)	Same as general	None	Same as above
Small Airports	Visual	None	Same as general but on an annual basis	None	Same as above AND Same as General Monitoring Requirements in Section 5(*e*)(1)(A)(ii) (during deicing season) AND Urea, Glycols, BOD (during deicing season, if used)
Maintenance/ Repair/ Salt Storage	Visual	Same as general AND Cl, Cn (for first two years only)	Same as general	None	Same as above
Salt Storage only	None	None	None	None	Impaired Water parameters (if applicable) AND TMDL Parameter(s) (if dictated by DEP)

APPENDIX C – AQUIFER PROTECTION AREAS AND OTHER GROUNDWATER DRINKING SUPPLY AREAS GUIDANCE

In considering the use of stormwater infiltration, the Plan should consider measures to reduce or mitigate potential impacts to both ground water (aquifers) and surface waters, taking into consideration both quantity and quality of the runoff. The emphasis should be to minimize, to the extent possible, changes between pre-development and post-development runoff rates and volumes.

The basic stormwater principals for Aquifer Protection Areas (and other groundwater drinking supply areas) are to prevent inadvertent pollution discharges/releases to the ground, while encouraging recharge of stormwater where it does not endanger groundwater quality. Measures include:

- prevent illicit discharges to storm water, including fuel/chemical pollution releases to the ground.
- minimize impervious coverage and disconnect large impervious areas with natural or landscape areas
- direct paved surface runoff to aboveground type land treatment structures – sheet flow, surface swales, depressed grass islands, detention/retention and infiltration basins, and wet basins. These provide an opportunity for volatilization of volatile organic compounds to the extent possible before the stormwater can infiltrate into the ground.
- provide necessary impervious pavement in high potential pollutant release areas. These "stormwater hot spots" include certain lands use types or storage and loading areas, fueling areas, intensive parking areas and roadways (see table below).
- only use subsurface recharge structures such as dry wells, galleries, or leaching trenches, to directly infiltrate clean runoff such as rooftops, or other clean surfaces. These structures do not adequately allow for attenuation of salts, solvents, fuels or other soluble compounds in groundwater that may be contained in runoff.
- restrict pavement deicing chemicals, or use an environmentally suitable substitute such as sand only, or alternative de-icing agents such as calcium chloride or calcium magnesium.

Infiltration of stormwater should be **restricted** under the following site conditions:

- ***Land Uses or Activities with Potential for Higher Pollutant Loads:*** Infiltration of stormwater from these land uses or activities (refer to Table 7-5 below), also referred to as stormwater "hotspots," can contaminate public and private groundwater supplies. Infiltration of stormwater from these land uses or activities may be allowed by the review authority with appropriate pretreatment. Pretreatment could consist of one or a combination of the primary or secondary treatment practices described in the Stormwater Quality Manual provided that the treatment practice is designed to remove the stormwater contaminants of concern.

- ***Subsurface Contamination:*** Infiltration of stormwater in areas with soil or groundwater contamination such as brownfield sites and urban redevelopment areas can mobilize contaminants.

- ***Groundwater Supply and Wellhead Areas:*** Infiltration of stormwater can potentially contaminate groundwater drinking water supplies in immediate public drinking water wellhead areas.

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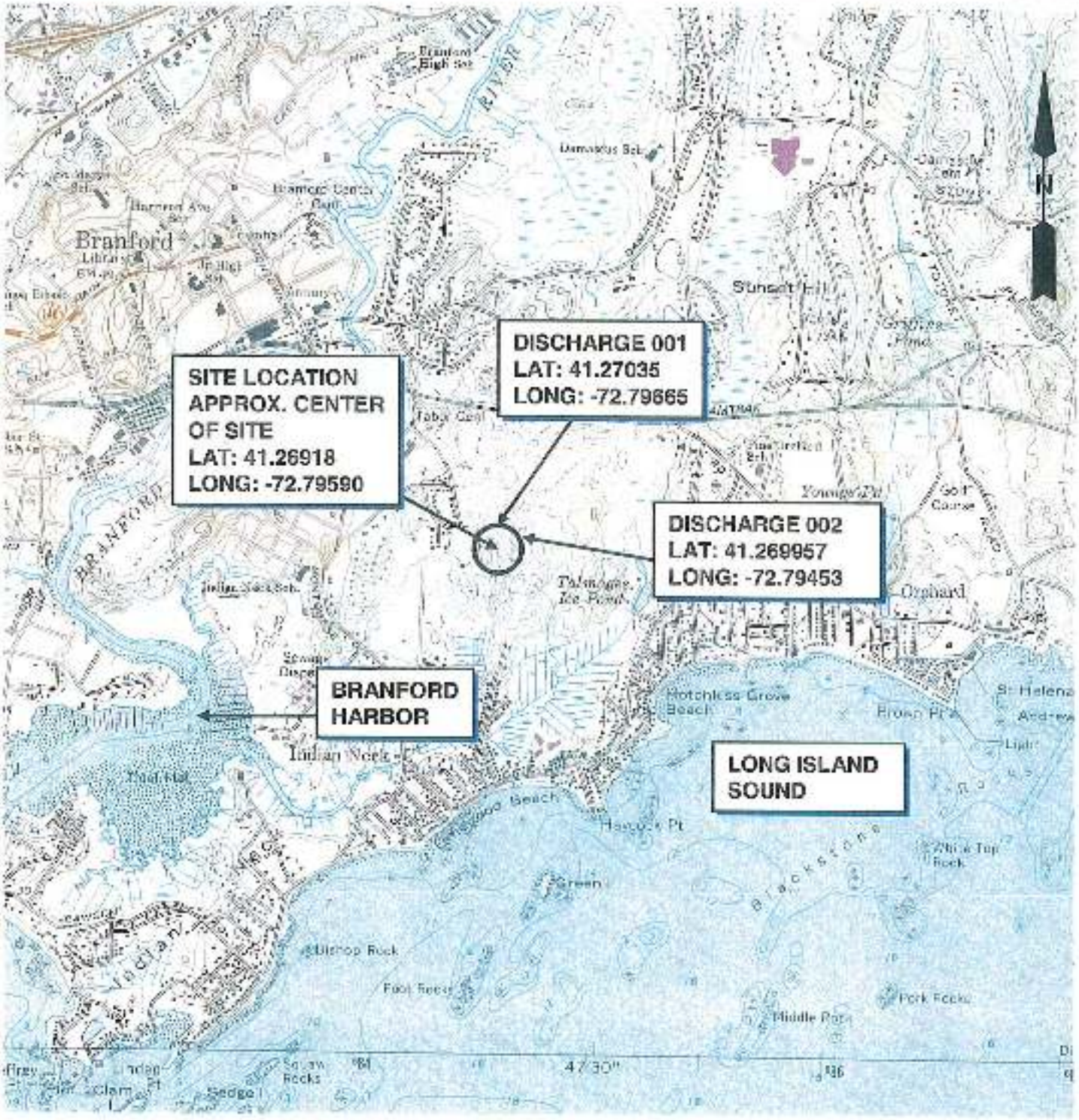
Appendix B

Location Map



MAP REFERENCE:
THIS MAP WAS PREPARED FROM THE FOLLOWING
7.5 MINUTE SERIES TOPOGRAPHIC MAP
BRANFORD, CONN. 1967 REVISED 1984

Quadrangle Location

SCALE: 1"=2000'

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Disciplines to Deliver

BRANFORD LANDFILL
USGS LOCATION MAP
STORMWATER POLLUTION PREVENTION PLAN
MARSHALL ROAD
BRANFORD CONNECTICUT

DRAWN BY: [illegible]
DATE: MAY 2001

FIGURE 1

FUSS & O'NEILL

Appendix C

Site Map

SURVEY NOTES

1. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

THE TYPE OF SURVEY PERFORMED IS A TOPOGRAPHIC SURVEY, AND IS INTENDED TO DEPICT THE RELATIONSHIP OF EXISTING TO PROPOSED CONTOURS TO DETERMINE THE REMAINING LANDFILL CAPACITY.

NO BOUNDARY DETERMINATION IS MADE BASED ON THIS PLAN.

THIS PLAN CONFORMS TO CLASS D AND CLASS T-2 VERTICAL ACCURACY.

TOPOGRAPHIC FEATURES, SHOWN HEREON, WERE PREPARED IN ACCORDANCE WITH CLASS T-2 BASED ON A FIELD SURVEY BY FUSS & O'NEILL, INC. JUNE 25, 1998.

PROPERTY LINES FROM TOWN OF BRANFORD ASSESSOR'S MAPPING TOPOGRAPHIC CONTOURS UPDATED BY FUSS & O'NEILL, INC. FEB. 1999.

NOT RELEASED FOR CONSTRUCTION

PROJ. MANAGER: KWM
CHIEF DESIGNER: CJE

REVIEWED	BY	DATE
SURVEY		
SITE		
STRUCTURAL		

REVISION DATE:

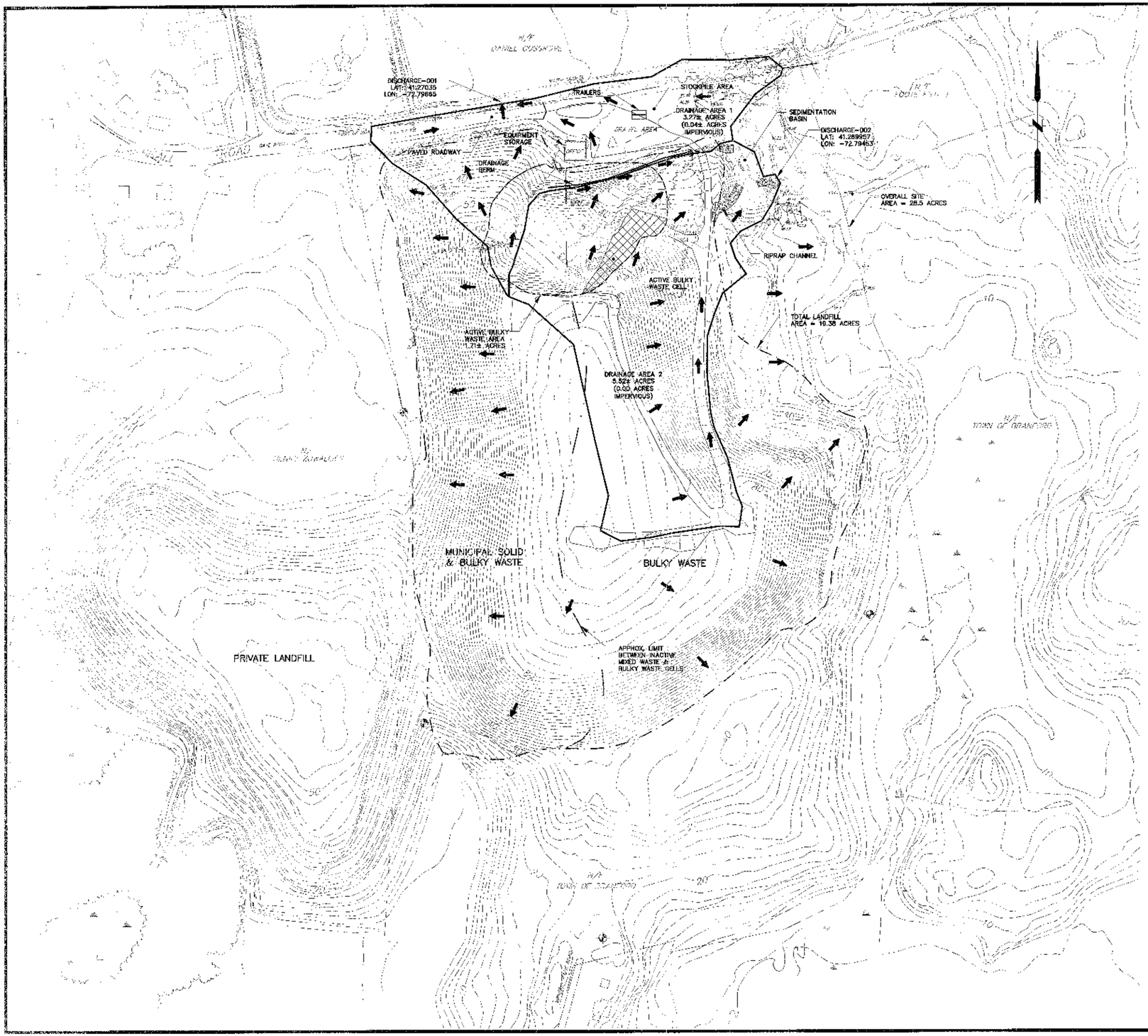
DATUM: H: V:
SCALE: 1" = 100'

FUSS & O'NEILL INC. Consulting Engineers
146 HARTFORD ROAD, MANCHESTER, CONNECTICUT 06040
(203) 646-2469

BRANFORD LANDFILL
SITE MAP
STORMWATER POLUTION PREVENTION PLAN

MARSHALL ROAD BRANFORD, CT

JOB NUMBER	PHASE	DATE	
87013K11	0007	DEC. 1999	SHEET NO. 1 OF 1



SURVEY NOTES

1. THIS MAP HAS BEEN PREPARED PURSUANT TO THE REGULATIONS OF CONNECTICUT STATE AGENCIES SECTIONS 20-300b-1 THROUGH 20-300b-20 AND THE "STANDARDS FOR SURVEYS AND MAPS IN THE STATE OF CONNECTICUT" AS ADOPTED BY THE CONNECTICUT ASSOCIATION OF LAND SURVEYORS, INC. ON SEPTEMBER 26, 1996.

THE TYPE OF SURVEY PERFORMED IS A TOPOGRAPHIC SURVEY, AND IS INTENDED TO DEPICT THE EXISTING TOPOGRAPHIC FEATURES.

NO BOUNDARY DETERMINATION IS MADE BASED ON THIS PLAN.

THE PROPERTY LINES DEPICTED HEREON ARE FROM TOWN OF BRANFORD ASSESSOR'S MAPS AND OTHER INFORMATION PROVIDED BY THE TOWN OF BRANFORD AND CONFORMS TO CLASS D HORIZONTAL CLASS OF ACCURACY. THE CONTOURS IN THE BULKY WASTE, MUNICIPAL SOLID & BULKY WASTE AND THE NORTHEAST CORNER OF LAND N/F TOWN OF BRANFORD CONFORM TO CLASS T-2 TOPOGRAPHICAL CLASS OF ACCURACY AND V-2 VERTICAL CLASS OF ACCURACY. ALL OTHER CONTOURS DEPICTED HEREON CONFORM TO CLASS T-3 ACCURACY.

2. ELEVATIONS BASED ON BENCHMARK 404 3" CHISLED SQUARE CUT, NORTHEAST CORNER OF CATCHBASIN, EAST SIDE OF TABOR DRIVE, 30±' SOUTH OF CL&P POLE 9039.

3. CONTOURS AND PLANAMETRIC FEATURES DEPICTED HEREON IN THE BULKY WASTE AREA AND THE SEDIMENTATION BASIN ARE FROM FIELD SURVEY DATED 1/24/02. THE CONTOURS DEPICTED HEREON IN THE NORTHEAST CORNER OF THE PROPERTY AND OVER THE REMAINING PORTIONS OF THE MUNICIPAL SOLID AND BULKY WASTE LAND FORM ARE FROM FIELD SURVEY DATED 5/30/02. ALL OTHER CONTOURS DEPICTED HEREON ARE BASED ON SHAPE FILES PROVIDED BY THE TOWN OF BRANFORD INLAND WETLAND, TOPOGRAPHIC MAPPING FROM 1999.

4. WETLANDS DEPICTED HEREON HAVE BEEN FIELD DELINEATED BY SOIL & ENVIRONMENTAL SERVICES, INC. AND FIELD LOCATED BY FUSS & O'NEILL, INC ON 5/30/02.

GENERAL NOTES

APPROXIMATE LANDFILL LIMIT IS BASED ON THE LANDFILL PLAN (SHEET 2) IN A REPORT ENTITLED "BRANFORD LANDFILL STUDY, SUPERIOR LANDFILL MANAGEMENT, INC., OCTOBER 1985" (FUSS & O'NEILL, 1985) AND PAST TOPOGRAPHIC SURVEYS CONDUCTED BY FUSS & O'NEILL.

ALLOWABLE NON-STORMWATER DISCHARGES WITHOUT DISCRETE DISCHARGE LOCATIONS ARE NOT DEPICTED (E.G., WATER SPRAYED FOR DUST SUPPRESSION). SINGLE POINT NON-STORMWATER DISCHARGES WILL BE ADDED TO THIS FIGURE AS THEY ARE DISCOVERED, AND PERMITTED OR OTHERWISE ELIMINATED UNLESS DETERMINED TO BE ALLOWABLE FOR THE INDUSTRIAL STORMWATER GENERAL PERMIT.

STORMWATER RUNOFF FROM DRAINAGE AREA 1 DISCHARGES INTO THE UNNAMED WATERCOURSE.

STORMWATER RUNOFF FROM DRAINAGE AREA 2 DISCHARGES INTO A NON-TIDAL FRESHWATER POORLY DRAINED WETLAND.

STORMWATER RUNOFF FROM THE SITE ULTIMATELY DRAINS TO THE LONG ISLAND SOUND (WATERBODY SEGMENT ID: CT-C1-008_SB) WHICH IS IDENTIFIED AS AN "IMPAIRED WATER" BUT DOES NOT HAVE A TMDL AT THIS TIME.

RUN-ON ENTERS THE SITE FROM MARSHALL ROAD AT THE NORTHWESTERN BOUNDARY OF DRAINAGE AREA 1.

THE LOCATION OF ALL STRUCTURES, EQUIPMENT, DELINEATIONS AND OTHER FEATURES PRESENTED ON THIS DRAWING SHOULD BE CONSIDERED APPROXIMATE. THIS DRAWING SHOULD ONLY BE USED FOR GENERAL PRESENTATION PURPOSES AND SHOULD NOT BE USED FOR CONSTRUCTION.

THERE HAVE BEEN NO MAJOR SPILLS AT THIS SITE SINCE OCTOBER 1, 2008 TO THE PRESENT.

STORMWATER RUNOFF FROM THIS SITE DOES NOT DISCHARGE INTO A MUNICIPAL SEPARATE STORM SEWER SYSTEM.

THERE ARE NO GROUNDWATER INFILTRATION SYSTEMS AT THIS SITE.

DE-ICING MATERIALS ARE NOT CURRENTLY STORED OUTDOORS AT THIS SITE.

AREAS OF THE LANDFILL OUTSIDE OF THE ACTIVE BULKY WASTE AREA ARE INACTIVE AND HAVE RECEIVED FINAL LANDFILL COVER WITH ESTABLISHED VEGETATION.

LOADING/UNLOADING ACTIVITIES OCCUR IN THE ACTIVE BULKY WASTE AREA, GRAVEL AREA, AND PAVED AREA.

CTDEP APPROVED CONTAMINATED SOILS AND SLUDGE ARE ALSO DISPOSED OF IN THE ACTIVE BULKY WASTE AREA.

THE LANDFILL DOES NOT HAVE A LEACHATE COLLECTION SYSTEM.

PROCESSING ACTIVITIES AT THIS SITE OCCUR IN THE ACTIVE BULKY WASTE AREA.

EROSION MAY POTENTIALLY OCCUR IN THE GRAVEL AREA AND ON THE DIRT ROADS.

THERE ARE CURRENTLY NO KNOWN LOCATIONS OF LEACHATE SPRINGS OR OTHER AREAS WHERE UNCONTROLLED LEACHATE MAY COMMINGLE WITH RUNOFF. LOCATIONS OF LEACHATE SPRINGS OR OTHER AREAS WILL BE ADDED TO THIS FIGURE AS THEY ARE DISCOVERED.

LEGEND

- RUNOFF FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- RIP RAP
- APPROXIMATE PROPERTY LINE
- APPROXIMATE LANDFILL LIMIT
- APPROXIMATE BOUNDARY BETWEEN MIXED AND BULKY WASTE
- ACTIVE BULKY WASTE AREA
- LANDFILL OFFICE / EQUIPMENT STORAGE BLDG.
- WETLANDS

NO.	DATE	DESCRIPTION	BY

REVISIONS

PROJ. MANAGER:
CHIEF DESIGNER:
REVIEWED BY: DATE

SEAL

SEAL

SCALE:
HORZ.: 1" = 100'
VERT.:
DATUM:
HORZ.:
VERT.:
100 50 0 100
GRAPHIC SCALE

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146 HARTFORD RD MANCHESTER, CT 06040 860.646.2469

TOWN OF BRANFORD LANDFILL

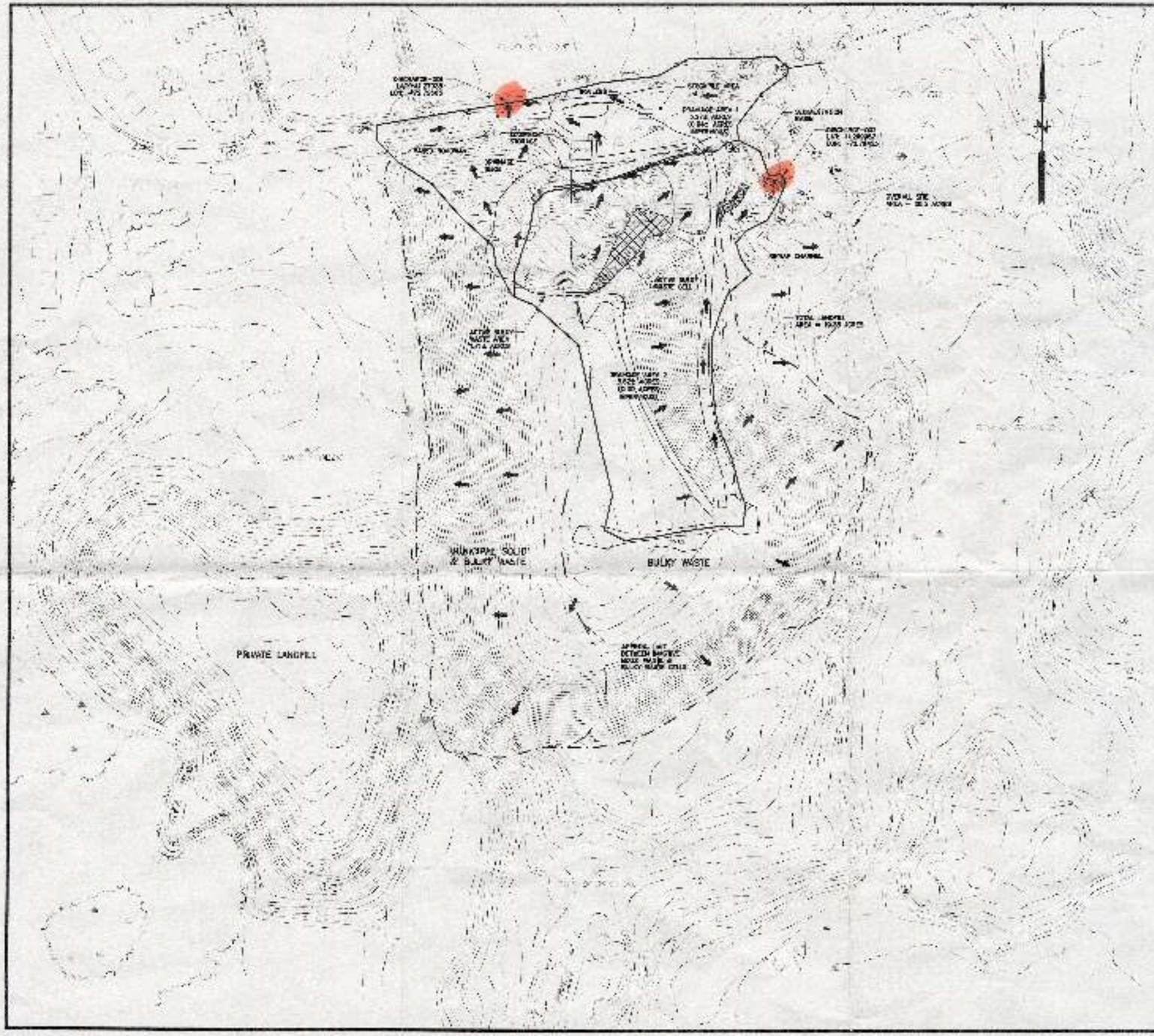
STORMWATER POLLUTION PREVENTION PLAN

SITE MAP

BRANFORD CONNECTICUT

PROJ. No.: 197013.B00
DATE: MAY 2011

FIG. 2



LEGEND

- RUNOFF FLOW DIRECTION
- DRAINAGE AREA BOUNDARY
- SW MAP
- APPROXIMATE PROPERTY LINE
- APPROXIMATE LANDFILL LIMIT
- APPROXIMATE BOUNDARY BETWEEN MIXED AND BULKY WASTE
- LANDFILL OFFICE / EQUIPMENT STORAGE BLDG.

FUSS & O'NEILL
Discipline to Deliver

TOWN OF BRANFORD LANDFILL
STORMWATER POLLUTION PREVENTION PLAN
SITE MAP
BRANFORD CONNECTICUT

FIG. 2

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Appendix D

List of Revisions

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LIST OF REVISIONS
STORMWATER POLLUTION PREVENTION PLAN

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Section Number	Date of Revision	Description of Revision/Addition
Entire Document	May 2011	Updated to 2011 General Permit Reqs.

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Appendix E

Inventory of Exposed Material

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INVENTORY OF EXPOSED MATERIALS

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Activity or Material Stored	Dates Stored	Quantity	Location	Potential Pollutants and Controls
On-Site Storage Activities				
Stockpile Materials	2008 to Present	Varies	Area along the south side of Tabor Drive	Direct exposure to precipitation is to be minimized by covering materials during storage. Potential pollutants include TSS, metals and pH.
Material Loading and Access Areas				
Bulky Waste	2008 to Present	1.71 acres	Bulky waste cell behind building in Drainage Area 2	Direct exposure to precipitation is to be minimized by keeping the size of the working cell manageable. Potential pollutants include oil & grease, TSS and metals.
Dust or Particle Generating Processes				
Gravel parking, driving and storage area surfaces	2008 to Present	3.27 acres	Drainage Area 1 and access road in Drainage Area 2	Direct exposure to precipitation is to be minimized by maintaining roadways and spraying unpaved areas with water during prolonged dry periods. Potential pollutants include oil & grease, TSS and metals.

Notes:
This table provides a summary of materials in the following types of areas, if applicable, that have the potential for stormwater exposure since at least three years prior to the certification date of this Plan, or earlier: Loading and unloading, roof areas, outdoor storage, outdoor manufacturing or processing areas, operations that generate dust or particulates, and on-site waste disposal operations. See *Section 3 and 4* of this plan for further detail.

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Appendix F

Record of Significant Spills and Leaks

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RECORD OF SIGNIFICANT SPILLS AND LEAKS

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Date	Location	Material Spilled	Quantity	Source	Quantity Recovered	Preventive Measures Taken

NOTE: Table includes leaks and spills of five gallons or more of toxic or hazardous substances which could affect stormwater that occurred at the facility three years prior to the date of certification of this SWPPP.

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Appendix G

Implementation Plan

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IMPLEMENTATION PLAN

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Items to be Implemented	Scheduled Completion Date	Person Responsible for Action	Signature/Date or Alternative Action Taken
Place and maintain gravel in the front of the building where rutting from equipment has occurred.			
Repair edges of dirt access roadways where geotextile fabric is exposed.			

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Appendix H

General Permit Stormwater Monitoring Program

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General Permit Monitoring Program

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

This document summarizes the stormwater sampling procedures to be used at the Town of Branford Landfill site on Tabor Drive in Branford, Connecticut.

CONTACT

Laura Panciera
Solid Waste Supervisor
747 East Main Street
Branford, CT
Office: 203-315-0622
solidwaste@branford-ct.gov

SAMPLE LOCATION

The Town of Branford will monitor Discharge 001 and Discharge-002 as depicted on *Figure 2*.

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General Permit Monitoring Program

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Visual Monitoring (Discharge-001 and -002)

WHEN TO SAMPLE

Visual monitoring must be performed each quarter, between:

- October 1 and December 31
- January 1 and March 31
- April 1 and June 30
- July 1 and September 30

The sampling should begin at the facility within the first 30 minutes of runoff during a storm that follows at least 72 hours of no runoff. There is no minimum rainfall depth requirement for stormwater sampling.

WHERE TO SAMPLE

Personnel will collect samples at Discharge-001 and Discharge-002 and visually asses the samples in a well-lit location.

REQUIRED EQUIPMENT

- Clean, clear glass or plastic container with lid
- Pole (scoop) sampler as necessary

HOW TO SAMPLE

- Initiate a grab sample from the discharge point identified in this plan within 30 minutes of the start of a storm event discharge.
- Completely fill the containers with stormwater as the water discharges from the site.
- Avoid collecting accumulated sediment from the bottom of the swale.
- Visually evaluate the sample in a well-lit location.
- Complete a copy of the Visual Monitoring Form. Retain the completed form in this SWPPP.

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General Permit Monitoring Program

Visual Monitoring Report Form
Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Year:_____ Quarter (circle one):

Q1: 10/1 to 12/31 Q2: 1/1 to 3/31 Q3: 4/1 to 6/30 Q4: 7/1 to 9/30

Date:_____ Time:_____ Date of Last Rainfall:_____

Sampler: _____ Snow or ice on ground surface at site?_____

	Observed Condition
Color	
Odor	
Clarity	
Floating Solids	
Settled Solids	
Suspended Solids	
Foam	
Oil Sheen	
Other Obvious Indicators of Pollution	

Assessment: (Attach additional sheets if necessary)

Based on the conditions observed, is there the potential that the facility's current control measures are inadequate or require maintenance?

_____

Follow-up actions taken:

_____

RETAIN THIS FORM WITH THE PLAN FOR THE PERMIT TERM

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General Permit Monitoring Program

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

General and Toxicity Monitoring (Discharge-001 and-002)

WHEN TO SAMPLE

General Monitoring must be performed twice per year, as described in *Section 5.4.2* of this Plan between:

- October 1 and March 31
- April 1 and September 30

Sampling may also need to continue for a subset of parameters based on whether or not benchmark values are exceeded. The sampling should begin at the facility within the first 30 minutes of runoff during a storm that follows at least 72 hours of no runoff. There is no minimum rainfall depth requirement for stormwater sampling. Snow or ice may be present at the time of sampling but should be noted on the monitoring report form.

SAMPLE PARAMETERS

Each time, analysis must include the General Monitoring parameter list in *Section 5.4.2*. Once per year for the first two years, analysis must also include aquatic toxicity.

WHERE TO SAMPLE

Personnel will collect General monitoring samples from Discharge-001 and Discharge 002 as depicted on *Figure 2*.

REQUIRED EQUIPMENT

- Containers as provided by the selected laboratory for the required parameters
- Pole (scoop) sampler (as necessary)
- pH meter
- Cooler with Ice

HOW TO SAMPLE

- Place an open container outside to collect rainwater. Place the container in a clearing where it will not collect rain that comes into contact with trees, rooftops, etc. Measure the rain pH with a strip or a meter.
- Initiate a grab sample from the discharge point identified in this plan within 30 minutes of the start of a storm event discharge.
- Wear nitrile gloves provided when collecting the samples.
- Do not overfill pre-preserved sample bottles.
- Completely fill the containers with stormwater as the water discharges from the site.
- Avoid collecting accumulated sediment from the bottom of the swale.
- Write the sampler name, sample number, sample location, date, and time on sample containers.

- Place sample containers in a cooler with ice or ice packs to maintain the sample temperature between 32 and 40 degrees F (4 and 6 degrees C).

AFTER SAMPLING

- Complete the chain of custody form.
- If samples are collected during working hours (8 - 5, Mon. through Fri.), deliver the samples directly to the laboratory. If samples cannot be delivered to the laboratory immediately, place samples in a cooler with ice or ice packs to maintain the sample temperature between 32 and 40 degrees F (4 and 6 degrees C). Deliver/call for pickup on the following day. Analysis of samples must begin within 24 hours of sample collection due to the maximum hold time of the aquatic toxicity samples.
- Complete the attached stormwater sampling log. The information on this log will be used to fill out the Stormwater Monitoring Report (SMR) that will be sent to CTDEP.

ANALYTES

Arrange to have the environmental laboratory analyze the sample for the following parameters using EPA 40 CFR 136 methods:

- Total Oil and Grease
- pH (use pH meter and record on log)
- Chemical Oxygen Demand
- Total Suspended Solids
- Total Phosphorus
- Total Kjeldahl Nitrogen
- Nitrate as Nitrogen
- Total Copper
- Total Zinc
- Total Lead
- Fecal Coliform (only once per year)
- Aquatic Toxicity (LC50) (only once per year)

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General Permit Monitoring Program

General Monitoring Report Form
Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Discharge Serial Number: ______________________________

Discharge Locations: ______________________________

Date of Storm Event: ______________________________

Time Discharge Began: ______________________________

Time Sampling Began: ______________________________

Duration Since Prior Storm Event: ______________________________

Quantity of Rainfall: ______________________________

Sample Temperature: ______________________________

Sample pH: ______________________________

Rainfall pH: ______________________________

Snow or ice present? Y N Toxicity Sample Collected? Y N

Sampler: ______________________________

Laboratory: ______________________________

The results of the stormwater discharge sampling analyses, along with the date and time analyses were initiated, are contained in the attached laboratory report.

Notes:

____

____

____

____

____

____

____

RETAIN THIS FORM WITH THE PLAN FOR THE PERMIT TERM

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General Permit Monitoring Program

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Sector C Alternate Monitoring

WHEN TO SAMPLE

Sector C Alternative Monitoring must be performed quarterly in addition to the General Monitoring requirements. The sampling should begin at the facility within the first 30 minutes of runoff during a storm that follows at least 72 hours of no runoff. There is no minimum rainfall depth requirement for stormwater sampling. Snow or ice may be present at the time of sampling.

WHERE TO SAMPLE

Personnel will collect samples from Discharge-001 and Discharge-002.

REQUIRED EQUIPMENT

- Containers as provided by the selected laboratory for the required parameters
- Pole (scoop) sampler (as necessary)
- pH meter
- Cooler with Ice

HOW TO SAMPLE

- Place an open container outside to collect rainwater. Place the container in a clearing where it will not collect rain that comes into contact with trees, rooftops, etc. Measure the rain pH with a strip or a meter.
- Collect a grab sample from the discharge point identified in this plan within 30 minutes of the start of a storm event discharge.
- Wear latex gloves provided when collecting the samples.
- Do not overfill pre-preserved sample bottles.
- Completely fill the containers with stormwater as the water discharges from the site.
- Avoid collecting accumulated sediment from the bottom of the swale or ground surface.
- Write the sampler name, sample number, sample location, date, and time on sample containers.
- Place sample containers in a cooler with ice or ice packs to maintain the sample temperature between 32 and 40 degrees F (4 and 6 degrees C).

AFTER SAMPLING

- Complete the chain of custody form.

- If samples are collected during working hours (8 - 5, Mon. through Fri.), deliver the samples directly to the laboratory. If samples cannot be delivered to the laboratory immediately, place samples in a cooler with ice or ice packs to maintain the sample temperature between 32 and 40 degrees F (4 and 6 degrees C). Deliver/call for pickup on the following day. Analysis of samples must begin within 24 hours of sample collection due to the maximum hold time of the aquatic toxicity samples.
- Complete the attached stormwater sampling log. The information on this log will be used to fill out the Stormwater Monitoring Report (SMR) that will be sent to CTDEP.

ANALYTES

Arrange to have the environmental laboratory analyze the sample for the following parameters using EPA 40 CFR 136 methods:

- Total Iron (quarterly)
- Biochemical Oxygen Demand (only once per year)
- Ammonia (only once per year)
- Alpha Terpineol (only once per year)
- Benzoic Acid (only once per year)
- p-Cresol (only once per year)
- Phenol (only once per year)

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General Permit Monitoring Program

Sector C Alternate Monitoring Report Form
Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Discharge Serial Number: _____

Discharge Locations: _____

Date of Storm Event: _____

Time Discharge Began: _____

Time Sampling Began: _____

Duration Since Prior Storm Event: _____

Quantity of Rainfall: _____

Sample Temperature: _____

Sample pH: _____

Rainfall pH: _____

Snow or ice present? _____

Sampler: _____

Laboratory: _____

The results of the stormwater discharge sampling analyses, along with the date and time analyses were initiated, are contained in the attached laboratory report.

Notes:

_____

_____

_____

_____

_____

_____

_____

RETAIN THIS FORM WITH THE PLAN FOR THE PERMIT TERM

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Appendix I

Stormwater Inspection Forms

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WEEKLY STORMWATER INSPECTION REPORT FORM

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Scope: The inspector will document evidence of pollution or potential pollution of stormwater on this form. The Plan Manager will also document actions taken to remediate the problem(s) or recommendations for corrective actions. If the Plan requires revision as a result of this inspection, this should be documented in the list of revisions in *Appendix D*.

Date: _____ Weather: _____

Inspector Name: _____

Inspector Signature: _____

Area	Yes	No	Comments/Corrective Action
Areas Not Fully Stabilized			
▪ Signs of erosion, damage, litter or leachate			
Bulky Waste Area			
▪ Signs of runoff or leaking			
Locations Where Equipment/Trucks Enter the Site			
▪ Signs of erosion or leaking			
Structural Control Measures			
▪ Signs of pollutants			
Erosion Control			
▪ Signs of erosion			

Reviewed By (Signature): _____ Date: _____

Notes/Other Observations:

_____

_____

FUSS & O'NEIL

MONTHLY STORMWATER INSPECTION REPORT FORM

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Scope: The inspector will document evidence of pollution or potential pollution of stormwater on this form. The Plan Manager will also document actions taken to remediate the problem(s) or recommendations for corrective actions. If the Plan requires revision as a result of this inspection, this should be documented in the list of revisions in *Appendix D*.

Date: _____ Weather: _____

Inspector Name: _____

Inspector Signature: _____

Area	Yes	No	Comments/Corrective Action
Spill Control and Personal Protective Equipment			
▪ Sorbents (Speedi-Dry, pads, brooms etc.)			
▪ PPE (Goggles, gloves, boot covers, etc.)			
▪ Salvage Drum			
Building			
▪ Staining or liquids on floor near tanks or equipment			
Grounds Surrounding Building			
▪ Stockpiled materials covered			
▪ Miscellaneous storage that could discharge pollutants			
Special Waste Storage Area			

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MONTHLY STORMWATER INSPECTION REPORT FORM

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Area	Yes	No	Comments/Corrective Action
▪ Signs of Runoff or Leaking			
Bulky Waste Area			
▪ Signs of Runoff or Leaking			
Landfill Slopes			
▪ Signs of erosion, damage, litter or leachate			
Erosion Control			
▪ Signs of erosion			

Reviewed By (Signature): _____ Date: _____

Notes/Other Observations:

_____

_____

_____

_____

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COMPREHENSIVE SITE EVALUATION FORM (SEMI-ANNUAL)

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Scope: This report outlines and details visual observations, made by the below noted inspector, of areas associated with stormwater for evidence of, or potential for, pollutants entering the stormwater drainage system. The report provides a description of observations made during the inspection, any problems with stormwater related items, and actions taken to remedy problems. If the Plan requires revision as a result of this inspection, this should be documented in the list of revisions in *Appendix D*.

Inspector: ______________________

Date: ______________________

Weather: ____

Areas Inspected

1. Material Handling Areas

- Loading and unloading areas

Observations/Comments: ____
____
____
____
____
____
____
____

Actions Taken: ____
____
____
____
____
____
____

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COMPREHENSIVE SITE EVALUATION FORM (SEMI-ANNUAL)

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

2. Outfalls

- Discharge-001 and Discharge-002 clear of debris

Observations/Comments: ____

____

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Actions Taken: ____

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3. Areas Not Fully Stabilized

- Signs of erosion, damage, litter, or leachate

Observations/Comments: ____

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Actions Taken: ____

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COMPREHENSIVE SITE EVALUATION FORM (SEMI-ANNUAL)

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

4. Bulky Waste Area

- Signs of runoff or leaking

Observations/Comments: _____

Actions Taken: _____

5. Locations Where Equipment / Trucks Enter the Site

- Signs of erosion or leaking

Observations/Comments: _____

Actions Taken: _____

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COMPREHENSIVE SITE EVALUATION FORM (SEMI-ANNUAL)

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

6. Spill Control Equipment

- Sorbents (Speedi-Dry, pads, booms, etc.)
- Personal Protective Equipment (Goggles, gloves, boot covers, etc.)
- Salvage Drums

Observations/Comments: ____

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Actions Taken: ____

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7. Structural Control Measures

- Riprap
- Sedimentation basin
- Earthen Berm
- Swale

Observations/Comments: ____

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Actions Taken: ____

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COMPREHENSIVE SITE EVALUATION FORM (SEMI-ANNUAL)

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

8. Erosion Controls

- Signs of Erosion

Observations/Comments: _____

Actions Taken: _____

9. Building

- Staining or liquids on floor near tanks or equipment

Observations/Comments: _____

Actions Taken: _____

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COMPREHENSIVE SITE EVALUATION FORM (SEMI-ANNUAL)

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

10. Grounds Surrounding Building

- Stockpiled materials covered
- Miscellaneous storage that could discharge pollutants

Observations/Comments: _____

Actions Taken: _____

11. Special Waste Storage Area

- Signs of Runoff or Leaking

Observations/Comments: _____

Actions Taken: _____

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COMPREHENSIVE SITE EVALUATION FORM (SEMI-ANNUAL)

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

12. Bulky Waste Storage Area

- Signs of Runoff or Leaking

Observations/Comments: _____

Actions Taken: _____

13. Landfill Slopes

- Signs of erosion, damage, litter or leachate

Observations/Comments: _____

Actions Taken: _____

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COMPREHENSIVE SITE EVALUATION FORM (SEMI-ANNUAL)

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

14. Erosion Control

- Signs of Erosion

Observations/Comments: ____________________

Actions Taken: ____________________

15. Other Materials or Areas Not Otherwise Identified

- Site free of materials and potential stormwater pollution sources not otherwise listed

Observations/Comments: ____________________

Actions Taken: ____________________

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COMPREHENSIVE SITE EVALUATION FORM (SEMI-ANNUAL)

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

16. Progress of the Implementation Plan

- Corrective actions being implemented in a timely manner

Observations/Comments: _____

Actions Taken: _____

17. Stormwater Management

- Other control measures necessary

Observations/Comments: _____

Actions Taken: _____

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COMPREHENSIVE SITE EVALUATION FORM (SEMI-ANNUAL)

Town of Branford Landfill
Tabor Drive, Branford, Connecticut

18. Plan Status

- Plan review and revision required

Observations/Comments: _____

_____

_____

_____

_____

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Actions Taken: _____

_____

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_____

_____

_____

Certification

Report Prepared By:_____ Date:_____

Report Reviewed By:_____ Date:_____

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Appendix J

Training Program

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STORMWATER TRAINING PROGRAM
Town of Branford Landfill
Tabor Drive, Branford, Connecticut

1.0 GENERAL DESCRIPTION

This program has been developed to provide training for those employees whose work may result in exposure of materials or equipment to stormwater runoff. The training program consists of a review of this guidance document regarding stormwater pollution prevention at the Branford Landfill. This document will be provided to personnel involved with materials that may be exposed to stormwater.

At minimum of once per year and within 90 days from the initial date of employment, a review of the Stormwater Pollution Prevention Plan will be provided to the necessary employees by the training leader. The training leader will be the Plan Manager listed in Table 1 of the Plan. In addition, employees will be provided with a copy of this document. The training document consists of a review in the areas of spill control, good housekeeping and materials management (including used oil and batteries). Upon receipt and review of the document, employees will sign a sheet signifying that they have red the document and understand the objectives of the program. Each signature sheet will be attached in this section. The document will be updated as necessary to reflect changes at the facility.

2.0 POLLUTION PREVENTION EMPLOYEE TRAINING PROGRAM

The objective of the Plan at the Landfill is to reduce the quantity of pollutants discharged from the facility to the maximum extent possible. As such, it is the responsibility of all employees and contractors to perform their jobs in such a manner as to limit the impact of pollution to the stormwater system. The following practices will be followed at the Branford Landfill.

2.1 Emergency Equipment Location

An ample supply of absorbent pads and Speedi dry, along with the appropriate cleanup equipment, is stored in the building on-site.

2.2 Spill Prevention and Response

Spill prevention and response procedures are provided in *Section 4.9* of the Plan. As part of the review for spill response to reduce pollutants and in order to eliminate redundancy of efforts, this section be reviewed annually in conjunction with this program.

2.2 Good Housekeeping

Personnel involved with activities resulting in contact with stormwater will exercise good housekeeping procedures to reduce the potential for stormwater pollution. At a minimum, employees will be aware and perform the following tasks.

- Spills will be promptly removed and/or remediated and the emergency coordinator will be notified in accordance with *Section 4.9* of the Plan.
- Roadways will be properly maintained.
- Waste materials will be disposed of properly at the appropriate locations.
- Used batteries should be stored under a roofed area until pickup for recycling.
- To the extent possible, storage of materials outside will be minimized.
- All drums will be properly labeled and outdoor exposure will be minimized.
- If present, dumpsters will be kept closed when waste is not being loaded or unloaded.
- Speedi-dry will be swept up regularly.

2.3 Materials Management/Control Measures

Material management practices and control measures will be implemented to reduce or eliminate contact of materials with stormwater. At a minimum, the following material management practices will be implemented.

- Materials will be stored such that exposure to stormwater is kept to a minimum.
- Old materials will be used before new materials.
- All valves will be tightly closed and drums will be properly sealed.
- Washing of equipment or vehicles will not be performed on-site.
- Chemicals and wastes (including used oil and spent solvents) will be clearly labeled as to their contents and classification, and will be stored in designated areas with secondary containment as appropriate.
- Spill response materials and equipment locations will be routinely inspected and maintained.

2.4 Inspection Requirements

Inspections of the site are required on a weekly, monthly and semi-annual basis. A description of the inspection requirements is provided in *Section 6* of the plan, and inspection forms are provided in *Appendix L*.

2.5 Records

Records retention will be as described in the Plan. Stormwater sampling and training records will be retained for five (5) years after the expiration of the General Permit.

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Appendix K

Training Attendance Record

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STORMWATER TRAINING ATTENDANCE RECORD
Town of Branford Landfill
Tabor Drive, Branford, Connecticut

Each member of the Pollution Prevention Team and all employees will sign this document following review of the Stormwater Pollution Prevention Plan before being permitted to work on-site.

I have attended the annual employee training session and have read the Branford Landfill "Stormwater Pollution Prevention Plan".

Topics: _____

_____

_____

_____

_____

Date

Name (print)	Title	Signature