



70 Essex Street, Unit 2C, Mystic, CT 06355 ■ Phone: 860-536-7390 ■ Fax: 860-536-1644

February 22, 2023

The Town of Montville
310 Norwich-New London Turnpike
Uncasville, CT 06382

Re: 2040 Route 32 – Convenience/Gasoline Sales Facility
Uncasville, CT 06382

Stormwater Pollution Prevention Plan

The stormwater pollution prevention plan (SWPPP) is a plan that outlines the measures a facility will take to prevent stormwater pollution. The following is an outline of a SWPPP for the Convenience/Gasoline Sales Facility:

1. **Identify Potential Sources of Pollution:** The first step in developing a SWPPP is to identify potential sources of pollution at the gas station. On this site, the pollution areas are where petroleum products are stored, used, or handled, such as fuel dispensing areas and storage tanks. These areas are clearly shown on sheet 3 of 7.
2. **Develop Control Measures:** Once potential sources of pollution are identified, develop control measures to prevent the release of pollutants.
 - a. **Fuel dispensers:**
 - i. Spill response kits.
 - ii. Positive limiting barrier.
 - b. **Storage tanks:**
 - i. Spill response kits.
 - ii. Positive limiting kits.
3. **Employee Training:** Provide training to employees about the importance of pollution prevention, spill prevention, and response procedures, and emergency shutdown procedures.
4. **Stormwater Management:** Implement a stormwater management plan to reduce the amount of pollutants that are carried away by stormwater. Listed below are proposed stormwater management facilities to remove pollutants from stormwater runoff.
 - a. **Hydroworks HydroStorm with oil level alarm:**
 - i. Separates oil and water.
 - ii. Oil level alarm will issue when the unit reaches 85% of oil storage capacity.
 - b. **Forebay area:**
 - i. Provides an area for sediment to settle before entering the main basin.



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- c. **Detention basin:**
 - i. Stores stormwater to allow for additional sediment to settle prior to discharge.
 - d. **Plunge pool:**
 - i. Slows down basin discharge.
 - e. **Grass swale:**
 - i. Provides a gentle slope and area for sediment to settle before stormwater enters the existing 42" RCP storm pipe.
5. **Record Keeping:** Keep records of inspections, maintenance, and any spills or releases that occur on-site. Regularly review these records to identify areas for improvement. Maintenance schedules are listed below.
- a. **Trash removal:**
 - i. Daily:
 - 1. Empty all trash cans and replace with new trash bags.
 - 2. Sweep the parking lot and remove any litter or debris.
 - 3. Dispose of any hazardous materials, such as oil or gasoline, in accordance with local regulations.
 - ii. Weekly:
 - 1. Clean trash cans and containers with disinfectant or a pressure washer.
 - 2. Check the dumpster for fullness and schedule a pickup if necessary.
 - 3. Inspect the parking lot for any spills or leaks and clean them up promptly.
 - iii. Monthly:
 - 1. Conduct a comprehensive inspection of the trash removal process and address any issues.
 - 2. Deep clean the parking lot, including removing any oil or grease stains and disposing of debris.
 - iv. Yearly:
 - 1. Conduct a thorough review of the waste management contract to ensure that it meets the gas station's needs and is cost-effective.
 - 2. Provide refresher training to employees on proper trash removal and disposal procedures.
 - b. **Detention basin:**
 - i. Quarterly:
 - 1. Inspect the basin for sediment buildup, debris, and vegetation growth.
 - 2. Remove any debris or trash from the basin and dispose of it properly.
 - 3. Inspect the outlet structure for any blockages or damage.
 - ii. Semi-annually:
 - 1. Conduct a sediment removal operation to remove accumulated sediment.
 - 2. Inspect and clean the inlet and outlet structures and repair or replace any damaged components.
 - 3. Inspect the basin for signs of erosion, such as gullies, and repair any damage.
 - 4. Inspect any piping or other conveyance systems associated with the basin for blockages or damage.
 - iii. Annually:
 - 1. Conduct an overall inspection of the basin to ensure that it is functioning as intended.
 - 2. Conduct a topographic survey of the basin to ensure that it is at the correct grade and that there are no depressions or low spots.

3. Inspect the vegetation on the basin slopes and repair any damage or erosion control measures.

c. Catch basin:

i. Quarterly:

1. Inspect the catch basin for sediment buildup, debris, and any other materials that may block the flow of water.
2. Remove any debris or trash from the catch basin and dispose of it properly.
3. Inspect the inlet and outlet pipes for any blockages or damage.
4. Check the water level in the basin and ensure that it is within the designed range.
5. Check the condition of the basin's structure, including the frame and grate.

ii. Semi-annually:

1. Conduct a sediment removal operation to remove accumulated sediment. This may require the use of a vacuum truck, and the material should be disposed of properly.
2. Inspect and clean the inlet and outlet structures and repair or replace any damaged components.
3. Inspect the basin for signs of erosion, such as gullies, and repair any damage.
4. Inspect any piping or other conveyance systems associated with the catch basin for blockages or damage.

iii. Annually:

1. Conduct an overall inspection of the catch basin to ensure that it is functioning as intended.
2. Conduct a topographic survey of the basin to ensure that it is at the correct grade and that there are no depressions or low spots.
3. Inspect the vegetation around the basin and repair any damage or erosion control measures

d. Plunge pool:

i. Monthly:

1. Inspect the plunge pool for signs of debris or blockages and remove any debris or trash from the pool.

ii. Semi-annually:

1. Conduct a sediment removal operation to remove accumulated sediment.

iii. Annually:

1. Remove any debris or trash from the plunge pool and dispose of it properly.
2. Inspect the outlet structure for any blockages or damage.

e. Grass swale:

i. Monthly:

1. Inspect the grass swale for erosion, damage, or sediment buildup.
2. Remove any trash, debris, or other materials that may block the flow of water.
3. Ensure that the vegetation in the swale is healthy and free from invasive species.
4. Trim and maintain the vegetation in the swale to prevent overgrowth.

ii. Semi-annually:

1. Conduct a sediment removal operation to remove accumulated sediment. This may require the use of heavy equipment or a professional contractor, and the material should be disposed of properly.
 2. Inspect and repair any damage to the swale's sides or bottom.
 3. Inspect any inlet or outlet structures associated with the swale for blockages or damage.
- iii. Annually:
1. Conduct an overall inspection of the grass swale to ensure that it is functioning as intended.
 2. Conduct a topographic survey of the swale to ensure that it is at the correct grade and that there are no depressions or low spots.
 3. Test the soil in the swale for nutrient and contaminant levels and make any necessary adjustments to maintain healthy vegetation.

f. **Hydroworks HydroStorm:**

i. Quarterly:

1. Inspect the hydrodynamic separator for sediment buildup, debris, and any other materials that may block the flow of water.
2. Remove any debris or trash from the separator and dispose of it properly.
3. Inspect the inlet and outlet pipes for any blockages or damage.
4. Check the water level in the separator and ensure that it is within the designed range.
5. Check the condition of the separator's internal components, such as the screens or baffles.

ii. Semi-annually:

1. Conduct a sediment removal operation to remove accumulated sediment. This may require the use of a vacuum truck or excavator, and the material should be disposed of properly.
2. Inspect and clean the inlet and outlet structures and repair or replace any damaged components.
3. Inspect the separator for signs of erosion, such as gullies, and repair any damage.
4. Inspect any piping or other conveyance systems associated with the separator for blockages or damage.

iii. Annually:

1. Conduct an overall inspection of the hydrodynamic separator to ensure that it is functioning as intended.
2. Conduct a topographic survey of the surrounding area to ensure that there are no depressions or low spots that could lead to bypassing of the separator.
3. Inspect the vegetation around the separator and repair any damage or erosion control measures.

6. **Periodic SWPPP Review:** The SWPPP should be reviewed periodically to ensure that it is up to date and effective in preventing stormwater pollution. Regular reviews should be conducted at least annually, or whenever there is a significant change in facility operations or design.

By implementing these measures and having a comprehensive SWPPP, a gas station can effectively prevent stormwater pollution and protect the environment.



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March 28, 2023

The Town of Montville
310 Norwich-New London Turnpike
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Re: 2040 Route 32 – Convenience/Gasoline Sales Facility
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Stormwater Pollution Prevention Plan
Petroleum Addendum

The underground storage tanks, multi-product fuel dispensers, diesel dispenser, and all appurtenances shall all be installed per the regulations listed within note number one of the Installation Notes on sheet UST-1.0 by CMG dated 1/17/2023. Contractor must complete all manufacturer's check sheets. Contractor must use personnel certified by all equipment suppliers as qualified to perform the required scope of work. Post construction facility testing shall include: 1. Precision testing of new product lines, vent lines, and UST'S by certified testing company, 2. Hydrostatic testing of all sumps.

The proposed convenience store shall have the following safety/pollution prevention items:

- Emergency stop switch accessible to attendant. Exact location is coordinated with fire marshal/building official.
- Veeder-Root/TLS-450 Monitoring Console located within the convenience store – accessible to attendant.

The fueling dispensers, underground storage tanks, and canopy shall have the following safety/pollution prevention items:

- Positive limiting barrier on the concrete slabs and fire suppression plans within the canopy designed specifically for the fueling configuration at the subject location.
- Spill kits mounted to the canopy columns clearly labeled.
- Dispenser sumps with piping sump sensor
- Double wall piping to UST'S
- Spill Containment Fill Manholes – 5 gallon – no drain, double wall
- Drop tubes with overfill prevention valves
- 42" Diameter STP Sump Manholes with mechanical line leak detector (MLLD), piping pump sensors
- Interstitial monitoring, interstitial manholes for UST'S.
- High level alarm horn/strobe

- Alarm acknowledgement switch
- Spill Containment Vapor Manhole

The pump and tank plans by CMG dated 1/17/2023 shall be reviewed and approved by the Fire Marshal of the Town of Montville and during installation all required inspections shall be completed. The installation and the products used shall minimize the potential pollution risk and the continued monitoring of the dispensers, product lines, and underground storage tanks will detect any potential problems with the systems