

STORMWATER POLLUTION PREVENTION PLAN

**BOROUGH OF NAUGATUCK
PARKS DEPARTMENT AND TRANSFER STATION
258 RUBBER AVENUE
NAUGATUCK, CONNECTICUT**

September 12, 2011

MMI #2129-22-1

Prepared for:

Borough of Naugatuck
Department of Public Works
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TABLE OF CONTENTS

	<u>Page</u>
1.0 INTRODUCTION	1
2.0 SITE DESCRIPTION	1
2.1 Applicable Standard Industrial Classification (SIC) Codes.....	1
2.2 General Description and Current Uses	2
2.2.1 Parks and Recreation Department Parcel.....	2
2.2.2 Transfer Station Parcel.....	5
2.3 Environmental Setting	6
2.4 Stormwater Conveyance Structures	7
3.0 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES	8
3.1 Drainage Area 001	9
3.2 Drainage Area 002	10
3.3 Inventory of Exposed Materials and Potential Pollutant Sources.....	10
3.4 Spills and Leaks	11
4.0 MEASURES AND CONTROLS	11
4.1 Pollution Prevention Team	12
4.2 Good Housekeeping/Preventive Maintenance	13
4.3 Vehicle and Equipment Washing.....	15
4.4 Roof Areas	15
4.5 Sediment and Erosion Controls	15
4.6 Spill Prevention and Response Procedures.....	15
4.7 Employee Training.....	17
4.8 Nonstormwater Discharges	17
5.0 RECOMMENDATIONS FOR STORMWATER MANAGEMENT	18
6.0 MONITORING PROGRAM	19
6.1 Site Inspections	19
6.1.1 Weekly Inspections	19
6.1.2 Semiannual Inspections	20
6.2 Outfall Monitoring	21
6.2.1 Quarterly Monitoring	21
6.2.2 Semiannual Monitoring	22

LIST OF TABLES

Table 3-1	Summary of Exposed Materials.....	9
Table 4-1	Emergency Contact Information.....	16

LIST OF FIGURES

Figure 1	Location Map (USGS base).....	3
Figure 2	Location Map (Aerial base).....	4

LIST OF APPENDICES

Appendix A	Required Plan Certifications
Appendix B	Spill & Leak Reporting Form and Summary of Chemicals Stored On Site
Appendix C	Sample Inspection Reporting Form
Appendix D	Site Plan

1.0 INTRODUCTION

This Stormwater Pollution Prevention Plan (SWPPP) has been developed for the Borough of Naugatuck (the Borough) Parks and Recreation Department and Recycling Center/Transfer Station in accordance with the requirements of the General Permit for the Discharge of Stormwater Associated with an Industrial Activity, which goes into effect on October 1, 2011. A copy of the General Permit is in Appendix A.

Milone & MacBroom, Inc. (MMI) has been retained by the Borough of Naugatuck to prepare this registration. The Borough's Parks and Recreation Department is located at 258 Rubber Avenue, and its Transfer Station and Recycling Center is located across Andrew Avenue. The parcels are not co-located; however, they are both owned by the Borough and are directly adjacent to each other. In implementing this plan, it is the Borough's intent to prevent pollution of surface waters from stormwater that is generated by all operations. Site usage can be characterized under the Department of Energy and Environmental Protection (DEEP) use codes under Sector C – Refuse Systems (SIC Code 4953) and Sector G – Transportation and Public Works.

Information contained in this SWPPP has been obtained from site inspections, facility records, and communications with municipal personnel. A copy of this plan shall be maintained at the site as required by Section 5(c)(1)(A) of the General Permit. An electronic copy of the plan shall also be placed on the Borough's website (<http://www.naugatuck-ct.gov>).

2.0 SITE DESCRIPTION

2.1 Applicable Standard Industrial Classification (SIC) Codes

The primary industrial activity at the Parks and Recreation Department is classified under the primary Standard Industrial Classification Code (SIC) 9199 Public Works Garage and the North American Industrial Classification System Code 92119. Operations at the facility are categorized under Sector G – Transportation and Public Works. Operations at the Transfer Station/Recycling

Center fall under the usage category of Sector C – Refuse Systems, SIC Code 4953. The primary usage is Sector G; however, this plan also addresses any additional sector-specific requirements that apply from Sector C.

2.2 General Description and Current Uses

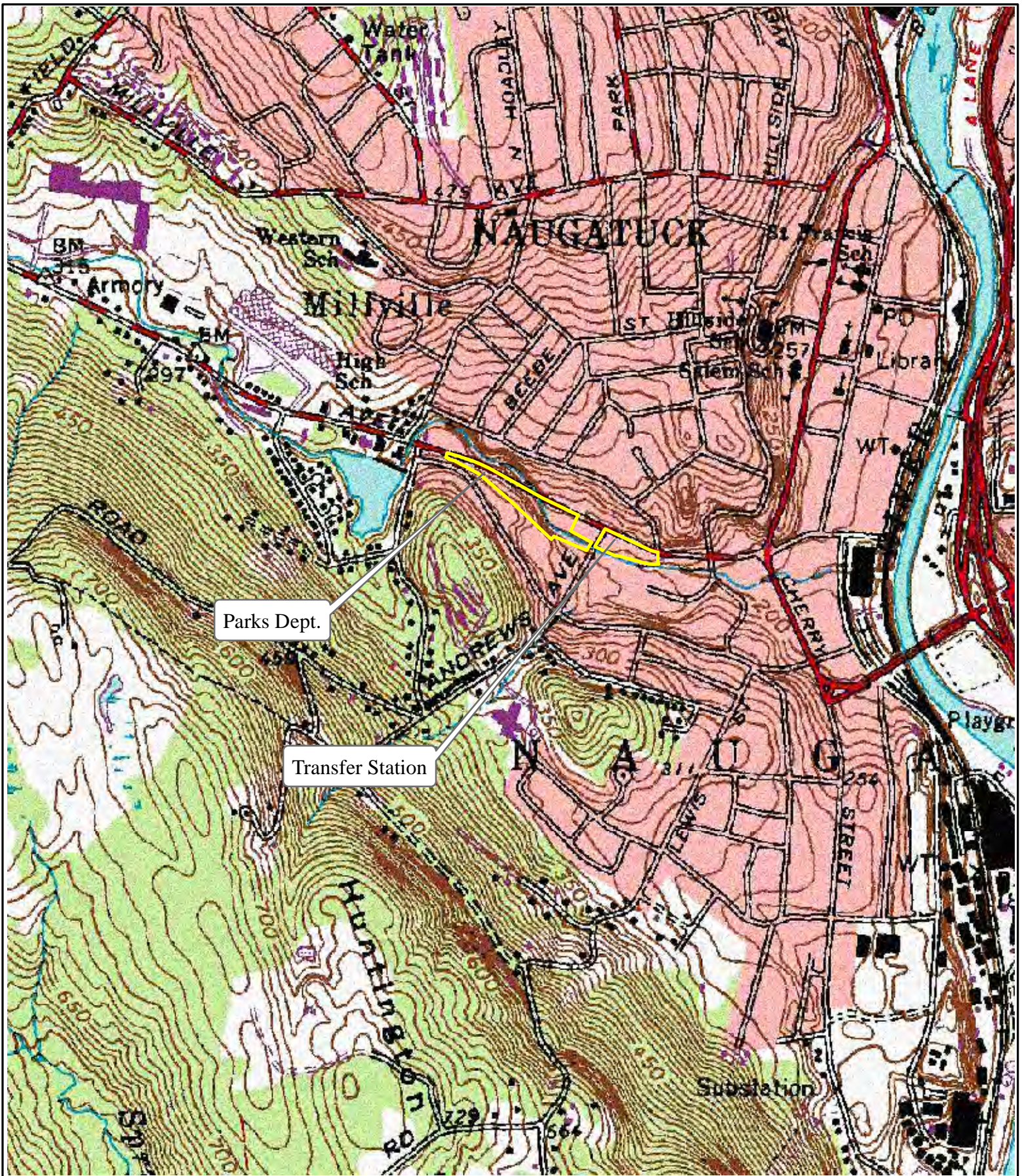
The Naugatuck Parks and Recreation Department is located at 258 Rubber Avenue between Andrew Avenue and Arch Street in Naugatuck, Connecticut. The Transfer Station is located just to the east of the Parks Department, separated by the Borough right-of-way associated with Andrew Avenue. Figure 1 is an aerial-based location map of the facilities. All site operations are addressed in this SWPPP.



2.2.1 Parks and Recreation Department Parcel

The Parks and Recreation Department is located at an approximately 2.68-acre parcel on the south side of Rubber Avenue. The majority of the parcel along Rubber Avenue is undeveloped, with the maintenance and storage buildings and associated parking areas comprising approximately 0.7 acre of the site. The parcel was purchased by the Borough in May 1970 and has been used for municipal services since that time.

The Parks Department parcel contains two buildings and two small sheds. A 5,000-square foot metal building with a metal roof and concrete floor and two garage bays is used as a maintenance shop for mowers and vehicles and a storage facility for the Parks Department equipment. There is no outside storage of chemicals or liquids. All floor drains in the building have been permanently sealed.




A smaller building to the west of the shop is a 1,830-square foot preengineered wood warehouse built in 1970. The warehouse is used for the Borough's holiday village events at Christmas and Easter.



 <p>MILONE & MACBROOM[®] Engineering, Landscape Architecture and Environmental Science 99 Realty Drive Cheshire, Connecticut 06410 (203) 271-1773 Fax: (203) 272-9733 www.miloneandmacbroom.com</p>	<p align="center">Naugatuck Parks Dept. & Transfer Station 258 Rubber Avenue</p>	<p>LOCATION: Naugatuck, CT</p>	
		<p>MMI#: 2129-22 MXD: P:\Fig1-Transfer.mxd SOURCE: USGS</p>	<p align="center">N  Site Location Map</p>



Legend

-  Floodway
-  0.2% Annual Chance Floodplain
-  1% Annual Chance Floodplain Zone AE

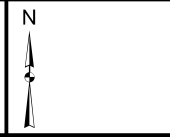
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**Naugatuck Parks Dept. & Transfer Station
258 Rubber Avenue**

MMI#: 2129-22
MXD: P:Fig2-Transfer
Source: Virtual Earth



**Site Location Map
Aerial Base**

Location:
Naugatuck, CT

Map By: BAM
Date: May 2011
Scale: 1:2,400

Sheet:
Figure 2

Approximately 0.25 acres of the developed portion of the parcel is bituminous pavement and is used for parking of municipal vehicles and employee vehicles. Overflow parking for the facility utilizes the parking area adjacent to the volunteer ambulance facility located just to the east of the Parks Department. The Borough's Public Works Department offices are also located at the ambulance facility.

2.2.2 Transfer Station Parcel

The Transfer Station/Recycling Center parcel is approximately 1.4 acres in size. Of this area, approximately 0.42 acres along the rear of the parcel and the banks of Long Meadow Pond Brook is undeveloped, with the remainder of the parcel covered in either bituminous pavement or structures.

The metal building and trailer located near the dumpsters are used for the storage of recycling bins, tools, fluorescent light bulbs, signs, bags, and maintenance items. There is no storage of liquids or chemicals within these outbuildings.

Naugatuck has curbside pickup of both municipal solid waste (MSW) and mixed recyclables. Residents can drop off additional MSW, bulk trash, and tires on Thursday or Saturday between 8 a.m. and 2 p.m. for a charge. Extra recyclables can also be dropped off during working hours at no charge. All gas, oil, and fluids must be drained from machines. The following items are collected at the station at no fee to residents:

- Motor oil
- Antifreeze
- Propane tanks
- Leaves and grass (in paper)
- Fluorescent bulbs
- Cell phones
- Videos
- Cooking grease
- Used clothing
- Oil filters
- Car batteries
- Brush and branches
- Electronics
- Rechargeable batteries
- Books
- Computer games
- Phone books
- White goods (refrigerators, washers, dryers)

- Tools
- Bicycles
- Aluminum, copper, brass, metal pipes
- Faucets
- Metal cabinets

The following items are prohibited:

- Garbage (food waste)
- Greasy or dirty boxes
- Black plastic trays
- Hangers
- Pots and pans
- Dishes or Pyrex
- Construction materials
- Paint or liquids
- Plastic bags or plastic toys
- Styrofoam
- Light bulbs (nonfluorescent)
- Flower pots
- Drinking glass
- Mirrors or windowpanes
- Hazardous waste
- Gasoline tanks or oil drums

Residential sand is stored along the southwest corner of the site during the winter.

During the summer, this area is used for the storage of wood chips.

All oil is stored within the main building.

2.3 Environmental Setting

Long Meadow Pond Brook flows through the Parks Department site and forms the southern property line at the eastern end of the Parks Department parcel and the entirety of the Transfer Station parcel. As such, a portion of each parcel is located within the FEMA-delineated flood zone AE (1% annual chance floodplain, with base elevations determined), the 0.2% annual chance floodplain, and also within the floodway of Long Meadow Pond Brook per the New Haven County Flood Insurance Study effective December 17, 2010.

Both parcels are located within the Long Meadow Pond Brook subregional watershed (No. 6917-00-2-R3). Long Meadow Pond Brook drains to the Naugatuck River and is located within the Housatonic Major Basin. Most storm drainage at the complex site discharges to this tributary. The Connecticut DEEP Impaired Waters Monitoring Requirements Table has not identified Drainage Basin CT 6917-00-2-R3 of Long Meadow Pond Brook as being impaired.

The CT DEEP July 2011 Natural Diversity Database (NDDDB) was accessed to determine whether state-listed special concern, threatened, and/or endangered species occur within the project limits. According to the database, there are no areas of concern within the site limits. The parcels are not located in an Aquifer Protection Zone or any public water supply watersheds. The sites are located outside of the Coastal Consistency Review Boundary.

2.4 Stormwater Conveyance Structures

There are no stormwater conveyance structures that collect drainage from the Parks Department parcel. An outfall from a stormwater conveyance system on the adjacent parcel (Naugatuck Ambulance) discharges at the northern bank of Long Meadow Pond Brook on the Parks Department property. The Borough maintains an office at the Naugatuck Ambulance facility for its Public Works Department but does not own the parcel. The 18" reinforced concrete pipe (RCP) discharges stormwater collected via a catch basin at the southwest corner of the ambulance facility. Roof leaders from the facility and a drainage pipe from a catch basin in Rubber Avenue discharge to this basin as well. Paved areas on the east side of the Parks Department maintenance garage drain overland to the catch basin adjacent to the ambulance facility. Stormwater from the 18" RCP outfall can be considered representative of stormwater from the Parks Department site; however, it also contains upgradient runoff from Rubber Avenue and the surrounding area. The remainder of the Parks Department site is heavily wooded and does not contain any stormwater conveyance structures.

Two small floor drains in the Parks Department maintenance garage have been filled with sand and do not appear to discharge directly to a stormwater conveyance system. It is unclear where they discharge, most likely directly to the ground beneath the building. As noted in Section 5.0 of this SWPPP, these drains should be permanently sealed to prevent any discharge of materials into the ground water. Floor drains in the ambulance bays have been routed through a structure adjacent to the catch basin that discharges directly to the sanitary sewer system in Andrews Avenue. Because

only minor vehicle repairs are completed in the ambulance garage (no engine rebuilding), an oil/water separator was not required.

There are no stormwater conveyance structures or direct outfalls that discharge stormwater from the Transfer Station parcel. One stormwater outfall discharges to Long Meadow Pond Brook within the parcel limits but conveys upland stormwater from an MS4 system in Rubber Avenue. This outfall does not directly collect any stormwater from the Transfer Station. All stormwater from the Transfer Station sheet flows directly to Long Meadow Pond Brook. During more significant rain events, stormwater runoff from the paved areas discharges via a swale at the edge of the driveway, adjacent to the Transfer Station office trailer. Stormwater sampling for the Transfer Station can be taken from this location.

3.0 DESCRIPTION OF POTENTIAL POLLUTANT SOURCES

In accordance with Section 5.(f).3 (Sector C - Refuse Systems) and Section 5.(f).7 (Sector G of the General Permit), Table 3-1 is a summary of sources and activities within each respective drainage area that have the potential to contribute pollutants to stormwater runoff. The table also notes required management practices and controls in accordance with the requirements of the permit. Because of the lack of stormwater conveyance structures and the general sheet flow of stormwater from both sites, drainage areas are divided simply into one drainage area for each of the subject parcels.

**TABLE 3-1
Summary of Exposed Materials**

Exposed Materials	Method of Storage	Management Practices	Controls	Pollutants of Concern*
Recycling Dumpsters	Open-topped dumpsters	Dumpsters covered at the end of each operating day. Inspections.	Tarps to cover dumpsters.	O&G, COD, TSS, Cu, Zn, Pb
Yard Waste and Leaf Piles	Piles on ground	None	Debris fence	TSS, TP, TKN, NO3-N
General Refuse Dumpsters	Open-topped dumpsters	Dumpsters covered at the end of each operating day. Inspections.	Tarps to cover dumpsters.	O&G, COD, TSS Cu, Zn, Pb
Uncontained Refuse	N/A	Continual cleanup and gathering of trash. Inspections.	Inlet screens in drainage system.	O&G, COD, TSS, Cu, Zn, Pb

*Note: O&G = Oil and Grease
 COD = Chemical Oxygen Demand
 TSS = Total Suspended Solids
 TP = Total Phosphorous
 TKN = Total Kjeldahl Nitrogen

3.1 Drainage Area 001

DA-001 consists of surface runoff from the Parks Department facility overland to Long Meadow Pond Brook and the paved portion that is collected via the catch basin adjacent to the ambulance facility. For sampling purposes, the 18" RCP outfall behind the ambulance facility on the north side of the brook is considered representative of the stormwater from the site although it does discharge stormwater collected from Rubber Avenue. There is no outside storage of chemicals, liquids, construction materials, or fuels on the Parks Department site within this drainage area.

3.2 Drainage Area 002

DA-002 consists of surface runoff from the Transfer Station facility overland to Long Meadow Pond Brook. There are no direct discharge points; however, during larger storm events, sheet flow concentrates at the southern edge of the access drive adjacent to the office trailer. The drainage area collects runoff from paved areas on site and has the potential to be exposed to a number of materials temporarily stored at the facility, as summarized in Table 3-1.

3.3 Inventory of Exposed Materials and Potential Pollutant Sources

In accordance with Section 5(c)(2)(D)(ii) Inventory of Exposed Materials, the following sections provide a summary of specific activities that have the potential to impact stormwater quality.

Loading and Unloading Operations

The loading and unloading areas throughout the site have a potential to impact stormwater quality at the site. Potential pollutant sources include the refuse and the liquid contained in the refuse. Recyclable materials and bulky waste dropped off at the site by town residents are subsequently hauled by Borough contractors.

Roof Areas

Activities at the buildings do not have process vents that would discharge to the roof and become potential stormwater contaminants.

Outdoor Storage Activities (Dumpsters, Equipment, and Leaf/Yard Waste)

Several dumpsters are maintained at the facility. During the course of an operating day, variable refuse and recyclables are added and removed. The dumpsters are typically covered overnight to

minimize the exposure to stormwater but are left open during the day for transfer operations. Motor oil and antifreeze are stored inside a shed, as are batteries.

Outdoor Manufacturing or Processing Activities

There are no outdoor manufacturing or processing activities at the facility.

Dust- or Particulate-Generating Processes

Storage of sand during winter months has the potential to generate dust and particulates.

On-Site Waste Disposal Practices

There is no active on-site solid waste disposal of goods; however, temporary storage of municipal waste, household appliances, electronics, and resident grass clippings occur in the Transfer Station area only until they are transferred to an off-site location.

3.4 Spills and Leaks

There have been no recorded spills or leaks of five gallons or more of toxic or hazardous substances at the facility, which could affect stormwater. Any spills or leaks of five gallons or more will be recorded on site using the form provided in Appendix C of this plan.

4.0 MEASURES AND CONTROLS

The following stormwater management controls are in place for the operations at the facility. In addition to the control measures specified in "Control Measures" (Section 5(b)) of the General Permit, the following include the additional control measures as per sector-specific requirements.

4.1 Pollution Prevention Team

The Pollution Prevention Team is responsible for implementing the SWPPP, ensuring compliance with regulatory requirements, and providing acceptable environmental quality of the site and of the stormwater discharges. A number of Borough employees will be responsible for the implementation of the SWPPP.

Pollution Prevention Coordinator:

Borough Engineer: Wayne Zirolli, P.E.

Phone: (203) 720-7006

Email: WZirolli@naugatuck-ct.gov

- Responsibilities: *Coordinate all stages of SWPPP development and implementation, submit budget requests sufficient for proper site operation and maintenance, establish staff responsibilities and job duties and delegate them appropriately, establish and implement training programs as appropriate, maintain records and ensure regulatory reports are submitted as required, coordinate semiannual site inspections and annual water quality monitoring, periodically update the SWPPP as necessary.*

Director of Public Works: James Stewart, P.E.

Phone: 203-720-7071 or 203-720-7043

Email: JStewart@naugatuck-ct.gov

- Responsibilities: *Oversee the implementation of preventive maintenance and "good housekeeping" at the facility, respond to emergency situations, spill response coordinator.*

Member – Parks Building:

Public Works Supt.: Robert Roland

Phone: 203-720-7071 or 203-720-7043

Email: RRoland@naugatuck-ct.gov

- Responsibilities: *Oversee the implementation of preventive maintenance and "good housekeeping" at the facility, respond to emergency situations, spill response coordinator.*

Member – Transfer Center:

Sheila Baummer

Phone: 203-720-7071

Email: SBaummer@naugatuck-ct.gov

- Responsibilities: *Oversee the implementation of preventive maintenance and "good housekeeping" at the facility, respond to emergency situations, spill response coordinator.*

The SWPPP will be updated by the Pollution Prevention Coordinator whenever (1) there is a change at the site that has an effect on the potential to cause pollution of the waters of the state or (2) the actions required by the plan fail to ensure or adequately protect against pollution of the waters of the state. The required SWPPP certifications are included herein as Appendix A.

4.2 Good Housekeeping/Preventive Maintenance

Proper housekeeping will be practiced at the site to prevent inadvertent discharges to the stormwater system. No washing of equipment or vehicles should be conducted on site. Any fluids or materials incorporated in vehicle maintenance should be collected with sorbent materials.

The Borough will maintain the integrity and effectiveness of all collection containers, collection systems for white goods and other waste material storage areas, and systems to contain pollutants and minimize exposure to rainfall and runoff. In addition to the placement of erosion controls as described below, the following preventive maintenance should be completed as necessary based on the results of site inspections (see Section 3.10) as part of the preventive maintenance program:

- Inspect and clean gutters at the Parks Department facility.
- Perform sweeping of paved areas semiannually.
- Inspect the banks of the brook for erosion.
- Cover sand stockpiles with polyethylene sheeting.
- Inspect any used oil containers for signs of leakage or cracking.
- Drip pans shall be used when performing maintenance on vehicles.
- Spills shall be immediately cleaned with absorbent material. Speedi-dri, or other similar sorbent material, will be kept on site for spill cleanup. Used or "spent" Speedi-dri will be stored in 55-gallon drums until it can be properly disposed of off site. Spills will be cleaned up in accordance with the procedures outlined in this plan.
- Funnels shall be used to minimize leaks and spills when transferring fluids.
- Oily wastes shall be kept separate from other waste materials.
- Dirty rags shall be stored in a covered container.
- No drums shall be stored outdoors.
- Annual stormwater sampling shall be performed in accordance with Section 6.0 of the SWPPP and requirements of the General Permit.

The primary areas for potential release of pollutants to stormwater include the waste fuel oil storage area, antifreeze storage area, and white goods storage area. At the recycling center, the Borough allows residents to dispose of grass clippings, leaves, and appliances. Each of the items is placed in disposal areas separated by concrete blocks. The concrete blocks appear adequate to prevent the migration of leaves and grass clippings to nearby surface waters. Refrigerators are temporarily stored on site before being transferred for scrap metal. The refrigerators are not dismantled on site,

so there is limited opportunity for release of contaminants. However, as long as the storage area is not covered, the time refrigerators are stored on site should be minimized to the extent possible.

4.3 Vehicle and Equipment Washing

No vehicle washing is completed at either parcel.

4.4 Roof Areas

No roof areas were identified during the site inspections as being exposed to chemicals or other pollutants. As such, preventative maintenance items are not necessary to prevent nonstormwater-related discharges. Specific recommendations for the installation of additional protective roofing or coverings are included in Section 5.0

4.5 Sediment and Erosion Controls

Erosion and sedimentation controls shall be installed in accordance with the 2002 Connecticut Guidelines for Soil Erosion and Sediment Control. These controls will be installed and maintained to protect the waters of the state. Additional recommendations have been included in Section 5.0. As site conditions may change, inspections that reveal potential erosion will be addressed by implementing additional measures to limit stormwater impacts. Maintenance activities will be performed as needed based on visual inspection by the SWPPP team.

Most of the site consists of pavement; however, some operations at the site have the potential to generate dust/particulates. Brush and sand stockpiling on the Transfer Station parcel shall be addressed with the installation of silt fence or other sediment control measures around the stockpiles.

4.6 Spill Prevention and Response Procedures

Potential spill areas include the maintenance garage at the Parks Department and waste oil storage at the Transfer Station. In the event of an accidental discharge of chemical material, the Pollution Prevention Coordinator will be notified immediately to coordinate response procedures. The

Pollution Prevention Coordinator will be notified of releases regardless of spill quantity. If the spill represents an immediate health or explosion hazard, the Berlin Fire Department will be contacted immediately by dialing 911. The spill will also be reported to the DEEP Oil and Chemical Spills Unit at (860) 424-3338. A spill response record form is presented in Appendix C.

Containment of the spill will begin immediately using available manpower and materials. Sorbent material will be clearly marked and available at all potential spill locations. The spill will be contained as close to the source as possible with absorbent materials. These materials will be removed immediately and disposed of in a proper manner. Expended sorbent and its associated fluid will be removed and placed into a sorbent disposal drum. The waste drum will be located in an appropriate disposal area and removed to a qualified facility for proper treatment. In the event that containment of the spill is beyond the capability of the available manpower, the nearest available cleanup contractor will be notified. Any material released to the floor drains of the garage areas will be held in the oil/water separator prior to discharge to the sanitary sewer, thereby preventing any harmful impacts.

The operations manager will be responsible for contacting the DEEP as well as local emergency management officials as required. A listing of Borough personnel and a state, local, and federal official who must be contacted in case of an emergency is included in Table 4-1.

**TABLE 4-1
Emergency Contact Information**

Agency	Contact Information
Emergency-Medical-Fire-Police	911
Naugatuck Fire Chief	(203) 720-7082
Naugatuck Police Department (Nonemergency)	(203) 729-5221
Area Health District	(203) 881-3255
Naugatuck Engineering	(203) 720-7006
DEEP Emergency Response and Spill Prevention	(860) 424-3338
DEEP Waste Management	(860) 424-3366
DEEP Water Management	(860) 424-3914
State Office of Emergency Medical Services	(860) 509-7975
State Fire Marshal/Bureau of Engineering	(860) 685-8350

4.7 Employee Training

Employees will be trained regarding the safe and appropriate handling of materials that are used on site as well as appropriate stormwater management techniques. The Pollution Prevention Coordinator or his designee will train new employees within 90 days of hire. A log will be kept to verify training has occurred.

Employees will receive training on this SWPPP, including its contents and recommendations. Training will include information on the importance of good stormwater management practices, spill response procedures, and material management practices. Storm drain structures will be identified during training, and the importance of preventing nonstormwater discharges will be discussed. Employees will also be taught good housekeeping and preventive maintenance practices. The spill prevention and response procedures will be reviewed such that each employee is familiar with the required practices in the event of a material spill.

4.8 Nonstormwater Discharges

The general permit identifies allowable nonstormwater discharges. These discharges are allowed, provided they do not impact water quality. Allowable nonstormwater discharges at the site include the following:

- Landscape irrigation and lawn watering runoff
- Uncontaminated ground water discharges such as from foundation drains and footing drains
- Residual street wash water
- Discharges containing no chemical additives (including chlorine) from flushing fire systems
- Naturally occurring discharges such as rising ground water and springs

Based on a review of operations and the site during the June 2011 site walk, it appears that certain facility modifications may be necessary to prevent the potential for nonstormwater-related discharges. These suggested modifications are included in Section 5.0.

5.0 RECOMMENDATIONS FOR STORMWATER MANAGEMENT

The following improvements are recommended, each intended to protect stormwater at this site. Engineering details of each of these improvements need to be evaluated in detail prior to implementation. One important consideration in the engineering analysis is related to flood management. Since the current floor drain system serves to allow floodwaters to drain from the buildings, continued drainage of floodwaters needs to be maintained. The cost of the proposed improvements should be incorporated into a five-year capital improvement program, with the goal of completing construction of the improvements by the end of 2016.

- Install silt fence and/or SiltSox around material storage piles at the Transfer Station to prevent erosion and sediment washout.
- Large household appliances are temporarily stored on site before being transferred for scrap metal. The refrigerators are not dismantled on site, so there is limited opportunity for release of contaminants. However, as long as the storage area is not covered, the refrigerators stored on site should be minimized to the extent possible.
- Install permanent roof structures over dumpsters or keep covered when not actively loading or unloading.
- Construct a permanent roof structure over the household appliance storage area.
- Stockpile areas of grass clippings, leaves, and brush should be placed in disposal areas separated by concrete blocks. The concrete blocks will prevent the migration of leaves and grass clippings to nearby surface waters.
- Store seasonal sand and wood chips outside of the FEMA-delineated floodway of Long Meadow Pond Brook.
- Permanently seal floor drains in the Parks Department maintenance garage.

6.0 MONITORING PROGRAM

The General Permit requires a standard monitoring program for registrants; however, certain sectors require a more detailed program given the sensitivity of the site usage. The permittee will comply with these sector-specific requirements in those areas of the facility where these sector-specific activities occur and where waste is exposed or potentially exposed to rainfall. These sector-specific requirements are in addition to any requirements specified elsewhere in the permit. Given the multiple sector specifications for the project site, the SWPPP includes additional plan requirements beyond those specified in Section 5(d).

Two types of ongoing site inspections will be performed. The first is periodic inspection of select areas. The second is a comprehensive site compliance evaluation. Site inspections will be completed by the Pollution Prevention Coordinator or his designee. Monitoring consists of site inspections, outfall inspections, and water quality sampling.

The Borough will maintain a site operating log. The logs will include records of date received, source of material, and designated storage. Up-to-date records of the facility operations will be maintained on site.

6.1 Site Inspections

6.1.1 Weekly Inspections

In addition to the requirements of "Inspections" (Section 5(d)), the Borough shall comply with additional inspection requirements pertaining to the operation of the transfer station. The Borough must inspect transfer stations at least once every seven days. A qualified inspector shall focus on areas used for storage of material and wastes that are exposed to precipitation, locations where equipment and waste trucks enter and exit the site, and areas where waste and materials are loaded and unloaded. Additionally, Borough staff shall conduct a daily site "walk-through" for litter, focusing on the site perimeter, cover

of waste containers, and areas the public has access for waste disposal or recycling drop-off.

6.1.2 Semiannual Inspections

The Borough shall conduct comprehensive site inspections no less frequently than twice a year. Inspections should be made during rainfall events, if possible. Such evaluations shall include:

- 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.
- Visual inspection of structural stormwater management measures, erosion control measures, and other structural pollution prevention measures.
- Visual inspection of spill response equipment.

Records shall be kept of all site inspections that summarize the scope of the inspection, personnel making the inspection, signature of the permittee, the date(s) of the inspection, major observations relating to the plan, actions taken, and updates made to the plan. All records shall be retained as part of the SWPPP for at least five years. A sample inspection form is included herein as Appendix C.

More frequent routine inspections should be completed at least monthly and shall include the visual inspection of all equipment and specific sensitive areas of the site. The evaluation should include a visual inspection of work areas, with particular emphasis on storage of materials in areas that may be exposed to rainwater. Records shall be kept on site that detail tracking or follow-up procedures. Other information that may be appropriate for record keeping includes:

- Maintenance performed
- Sampling type, location, volumes, etc.
- Observations of incidental site inspections
- Emergency conditions (spills, failures, etc.)
 - Time initiated and/or first detected
 - Nature of emergency
 - Effects on stormwater collection system and/or receiving stream
 - Corrective action taken
 - Authorities notified
 - Duration
 - Special sampling and results
 - Other pertinent documentation

No emergencies have been reported at the site to date. If an emergency condition were to arise, records would be kept to properly report the incident to the appropriate parties and to provide a means of dealing with similar conditions in the future. If the emergency caused a violation of the General Permit, the DEEP would be notified. Any accelerated stormwater sampling or other information required to fully document and describe the condition would also be recorded.

6.2 Outfall Monitoring

6.2.1 Quarterly Monitoring

Visual monitoring of area where sheet flow concentrates before discharging to Long Meadow Pond Brook at the Transfer Station shall be completed on a quarterly basis. If necessary, sand bags shall be placed to create a sampling pool. Monitoring samples from each location shall be taken in a clean, clear glass or plastic container and examined in a well-lit area. If visual assessment indicates control measures are inadequate, permittee

must review and revise the selection, design, installation, and implementation of the control measure to ensure that the condition is eliminated and will not be repeated.

Parameter
Color (visual)
Odor
Clarity
Floating solids
Settled solids
Suspended solids
Foam
Oil sheen
Obvious indicators of stormwater pollution

6.2.2 Semiannual Monitoring

Water quality samples shall be taken on a semiannual basis. In addition to the standard monitoring required in "Monitoring" (Section 5(e)) for the given sector uses of the project site, the Borough is required to sample additional parameters under the same conditions as those required in Section 5(e). One semiannual sample shall be taken between October 1 and March 31, and the other shall be taken between April 1 and September 30. Semiannual samples shall be separated by at least 30 days. After four semiannual samples, if the average of four values for any parameter does not exceed the benchmark, the monitoring requirements for that parameter have been fulfilled for the permit term. The following parameters shall be evaluated:

Parameter	Benchmark
Sample pH (S.U.)	5-9
Rainfall pH (S.U.)	
Total Iron (mg/l)	1.0
Chemical Oxygen Demand (mg/l)	75
Total Oil and Grease (mg/l)	5
Total Suspended Solids (mg/l)	
Sample pH (S.U.)	5-9
Total Phosphorous (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)	0.200
Aquatic Toxicity	Years 1 and 2

2129-22-1-s911-1-rpt.doc


APPENDIX A
Required Plan Certifications

Parks Department and Transfer Station
Naugatuck, Connecticut

**Certification of the
Stormwater Pollution Prevention Plan**

The following certification shall be signed by a professional engineer licensed to practice in Connecticut or a Certified Hazardous Materials Manager.

"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 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."



Signature

9-15-11

Date

Nicole Burnham

Name

Associate

Title

20928 CT

P.E. Number (if applicable)

Certification of the Nonstormwater Discharges

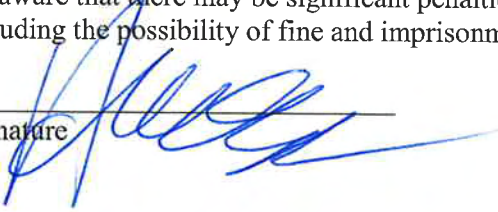
The following certification shall be signed by a professional engineer licensed to practice in Connecticut or a Certified Hazardous Materials Manager.

"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 ground water discharges such as pumped ground water, 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 ground waters, uncontaminated ground water 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 nonstormwater at the site, a description of the results of any test and/or evaluation for the presence of nonstormwater 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."

Signature



Date

9-15-11

Name

Nilolk Burnham

Title

Associate

P.E. Number (if applicable)

20928 CT

*Following implementation of the recommendations in Section 5.0 of the SWPPP.

APPENDIX B
Spill & Leak Reporting Form
Summary of Chemicals Stored On Site

Parks Department and Transfer Station
Naugatuck, Connecticut

SUMMARY OF CHEMICALS STORED ON SITE

Material	Description/ Tank Size/ AST/UST	Location (Drainage Area)	Quantity Stored (Estimated)	Exposed in Last Three Years		Likelihood of Contact with Stormwater	Known Past Significant Spills/Leaks	
				Yes	No		Yes	No
Unleaded gasoline	5-gal. containers		20 gallons		✓	Possible from overfilling of tank or truck.		✓
Unleaded gasoline	55-gal. tank		55 gallons		✓	Possible from overfilling of tank or truck.		✓
Motor oil	1-gal. & ¼-gal. containers		5 gallons		✓	None. Stored in Parks Department Garage.		✓
Automatic transmission fluid	¼-gal. containers		2 gallons		✓	None. Stored in Parks Department Garage.		✓
Antifreeze	1-gal. containers		2 gallons		✓	None. Stored in Parks Department Garage.		✓
Windshield washer	1-gal. containers		20 gallons		✓	None. Stored in Parks Department Garage.		✓
Waste motor oil	5-gal. containers		10 gallons		✓	None. Stored in Parks Department Garage.		✓
Field paint	5-gal. containers		200 gallons		✓	None. Stored in Parks Department Garage.		✓
Spray paint	Cans		20 cans		✓	None. Stored in Parks Department Garage.		✓
Paint	1-gal. cans		10 gallons		✓	None. Stored in Parks Department Garage.		✓
Bar and chain oil	1-gal. containers		5 gallons		✓	None. Stored in Parks Department Garage.		✓
Brake cleaner, carb cleaner, spray oil	Spray cans		10 cans		✓	None. Stored in Parks Department Garage.		✓
Car wash soap	1-gal. containers		1 gallon		✓	None. Stored in Parks Department Garage.		✓
Paint thinner	1-gal. containers		2 gallons		✓	None. Stored in Parks Department Garage.		✓

APPENDIX C
Sample Inspection Reporting Form

Parks Department and Transfer Station
Naugatuck, Connecticut

COMPLIANCE INSPECTION FORM
NAUGATUCK PARKS DEPARTMENT & TRANSFER STATION

Inspection Completed By: _____

Date of Inspection: _____ Weather Conditions: _____

1. Catch Basins Inspected? _____ Yes _____ No
Maintenance Needed? _____ Yes _____ No
Action Taken: _____

2. Gutters Inspected? _____ Yes _____ No
Maintenance Needed? _____ Yes _____ No
Action Taken: _____

3. Paved Areas in Need of Sweeping? _____ Yes _____ No
Action Taken: _____

4. Storm Pipe Outfalls Inspected? _____ Yes _____ No
Evidence of Scour or Sedimentation? _____ Yes _____ No
Maintenance Needed? _____ Yes _____ No
Action Taken: _____

4. Bank of Long Meadow Pond Brook Inspected? _____ Yes _____ No
Evidence of Erosion? _____ Yes _____ No
Maintenance Needed? _____ Yes _____ No
Action Taken: _____

5. Sand Storage Inspected? _____ Yes _____ No
Are Piles Covered? _____ Yes _____ No
Action Taken: _____

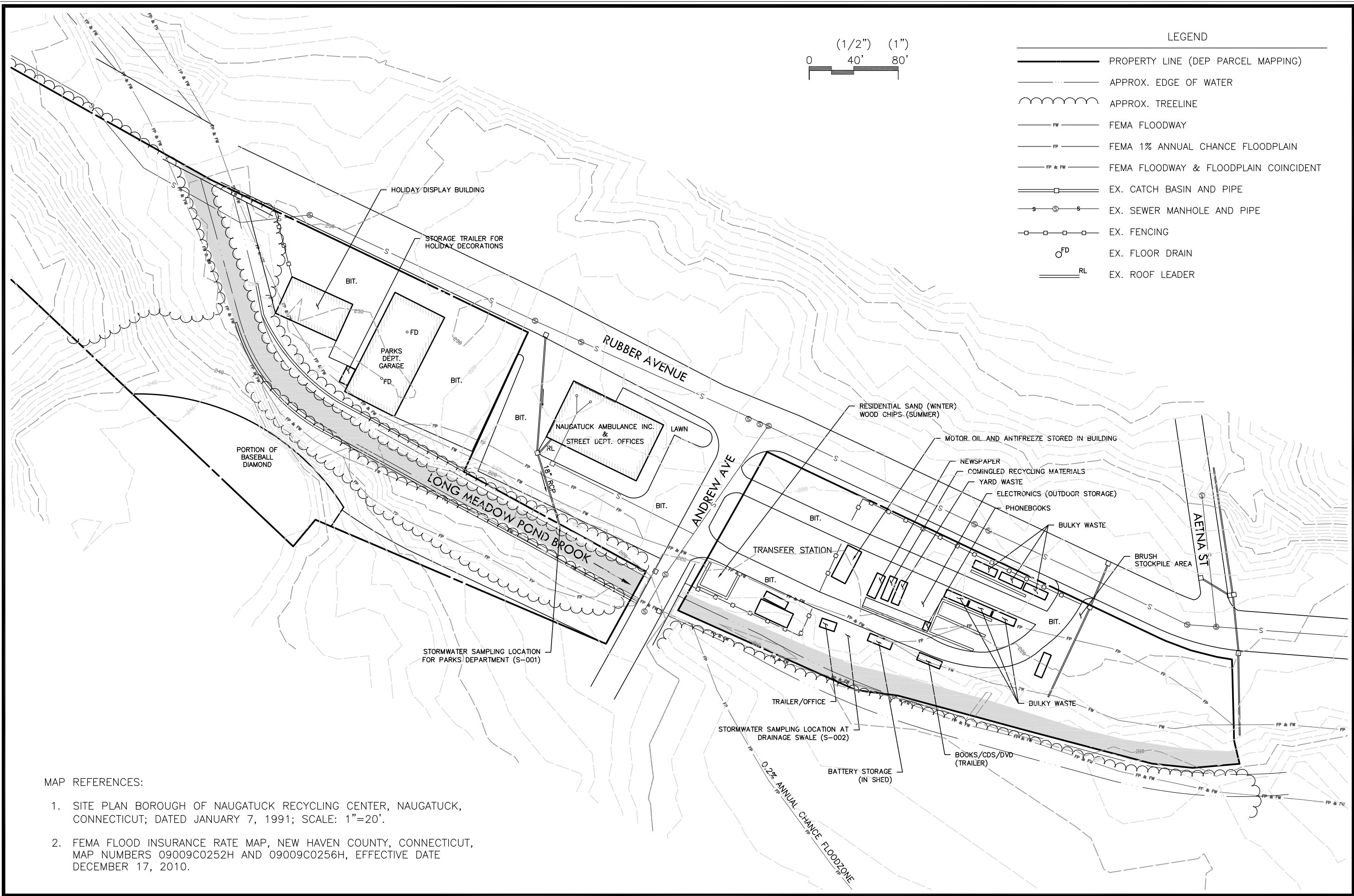
6. Waste Oil Storage Inspected? _____ Yes _____ No
Any Cracking or Leakage Evident? _____ Yes _____ No
Action Taken: _____

SIGNATURE: _____

DATE: _____

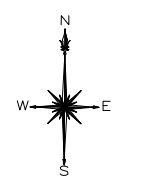
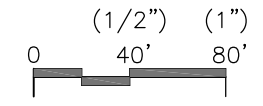
APPENDIX D
Site Plan

Parks Department and Transfer Station
Naugatuck, Connecticut



LEGEND

- PROPERTY LINE (DEP PARCEL MAPPING)
- - - - - APPROX. EDGE OF WATER
- ~~~~~ APPROX. TREELINE
- FW— FEMA FLOODWAY
- FP— FEMA 1% ANNUAL CHANCE FLOODPLAIN
- FP & FW— FEMA FLOODWAY & FLOODPLAIN COINCIDENT
- EX. CATCH BASIN AND PIPE
- S— EX. SEWER MANHOLE AND PIPE
- EX. FENCING
- ^{FD} EX. FLOOR DRAIN
- RL— EX. ROOF LEADER



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REVISIONS

SITE PLAN
PARKS DEPARTMENT AND
TRANSFER STATION/RECYCLING FACILITY
 258 RUBBER AVENUE
 NAUGATUCK, CONNECTICUT

DESIGNED	BAM	NB
DRAWN		
CHECKED		
SCALE	1"=80'	
DATE	SEPT. 2011	
PROJECT NO.	2129-22	

SP-1
 SHEET NO.

MAP REFERENCES:

1. SITE PLAN BOROUGH OF NAUGATUCK RECYCLING CENTER, NAUGATUCK, CONNECTICUT; DATED JANUARY 7, 1991; SCALE: 1"=20'.
2. FEMA FLOOD INSURANCE RATE MAP, NEW HAVEN COUNTY, CONNECTICUT, MAP NUMBERS 09009C0252H AND 09009C0256H, EFFECTIVE DATE DECEMBER 17, 2010.