

**STORMWATER POLLUTION
PREVENTION PLAN
(CTDEEP General Permit No. GSI-----)**

Prepared for
**Connecticut Department of Energy and Environmental Protection
CTDEEP)**
for the
**Former Connecticut Resources Recovery Authority (CRRA)
Hartford Landfill**
Leibert Road
Hartford, Connecticut

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- A CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF STORMWATER ASSOCIATED WITH INDUSTRIAL ACTIVITY, EFFECTIVE OCTOBER 1, 2011, MODIFIED DECEMBER 3, 2013
- B COPY OF GENERAL PERMIT REGISTRATION
- C STORMWATER MONITORING REPORT (SMR) FORM FOR SECTOR C FACILITIES AND STORMWATER MONITORING RESULTS
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LIST OF ACRONYMS USED

| | |
|--------|---|
| AST | Aboveground Storage Tank |
| BMP | Best Management Practice |
| BOD | Biochemical Oxygen Demand |
| CFR | Code of Federal Regulations |
| CGS | Connecticut General Statutes |
| CHMM | Certified Hazardous Materials Manager |
| CL&P | Connecticut Light & Power |
| CRRA | Connecticut Resources Recovery Authority |
| CTDEEP | Connecticut Department of Energy and Environmental Protection |
| CTDOT | Connecticut Department of Transportation |
| DPW | Department of Public Works |
| DSN | Discharge Serial Number |
| EPA | Environmental Protection Agency |
| GFCS | Groundwater Flow Control System |
| HDPE | High Density Polyethylene |
| LLDPE | Linear Low Density Polyethylene |
| MDC | Metropolitan District Commission |
| MIRA | Materials Innovation and Recycling Authority |
| MSW | Municipal Solid Waste |
| NPDES | National Pollutant Discharge Elimination System |
| PCBs | Polychlorinated Biphenyls |
| PE | Professional Engineer |
| POTW | Publicly Owned Treatment Works |
| RCRA | Resource Conservation and Recovery Act |
| RRF | Resources Recovery Facility |
| SMR | Stormwater Monitoring Report |
| SWPPP | Stormwater Pollution Prevention Plan |
| TMDL | Total Maximum Daily Load |
| UST | Underground Storage Tank |
| WPF | Waste Processing Facility |

I. SITE DESCRIPTION AND POLLUTION PREVENTION TEAM

Facility Name: Hartford Landfill/City of Hartford Bulky Waste and Recycling Transfer Station
Facility Address: 180 Leibert Road, Hartford. CT

A. FACILITY DESCRIPTION

The Hartford Landfill is operated by the Connecticut Department of Energy and Environmental Protection (CTDEEP) under a long-term lease from the City of Hartford. The landfill consists of two distinct, adjacent former disposal areas: a Non-Processible Waste Disposal Area (also known as the municipal solid waste (MSW)/Interim Ash Area) and the Lined Ash Disposal Area. The Non-Processible Waste Disposal Area is the historic portion of the landfill consisting of approximately 80 acres. From approximately 1988 through 2008 it was used for the landfilling of non-processible and bulky waste that could not be burned at the Mid-Connecticut Waste-to-Energy Facility. Capping of the Non-Processible Waste Disposal Area was completed in 2014. The Lined Ash Disposal Area is also capped and closed, and is currently operating under a post-closure monitoring program.

In addition to the Hartford Landfill, this Stormwater Pollution Prevention Plan includes the residential drop-off portion of the City of Hartford Bulky Waste and Recycling Transfer Station (Transfer Station), which abuts the landfill to the south. Collectively, the Hartford Landfill and Transfer Station drop-off area occupy approximately 100 acres.

As indicated in the definitions section (Section 2) of the General Permit, solid waste facilities that are subject to regulation under Subtitle D of the Resource Conservation and Recovery Act (RCRA), as well as recycling centers, are included within category (5) under the definition of “industrial activity” and, therefore, are subject to the permit regulations for stormwater discharges associated with industrial activity. Category (5) of the definition of “Industrial activity” includes “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.*”

The Hartford Landfill and the Transfer Station operate under SIC Code 4953 Refuse Systems, as defined by the U.S. Department of Labor below.

4953 Refuse Systems

Establishments primarily engaged in the collection and disposal of refuse by processing or destruction or in the operation of incinerators,

waste treatment plants, landfills, or other sites for disposal of such materials. Establishments primarily engaged in collecting and transporting refuse without such disposal are classified in Transportation, Industry 4212.

- *Acid waste, collection and disposal of*
- *Ashes, collection and disposal of*
- *Dumps, operation of*
- *Garbage: collecting, destroying, and processing*
- *Hazardous waste material disposal sites*
- *Incinerator operation*
- *Landfill, sanitary: operation of*
- *Radioactive waste materials, disposal of*
- *Refuse systems*
- *Rubbish collection and disposal*
- *Sludge disposal sites*
- *Street refuse systems*
- *Waste materials disposal at sea*

This Stormwater Pollution Prevention Plan has been prepared in accordance with the requirements of the CTDEEP General Permit for the Discharge of Stormwater Associated with Industrial Activity (General Permit) effective October 1, 2011 and modified on December 3, 2013.

B. GENERAL LOCATION MAP

The Hartford Landfill and the Recycling Transfer Center are located in the City of Hartford, Connecticut along Jennings Road, as indicated on Figure 1, the USGS Site Location Map.

C. POLLUTION PREVENTION TEAM

A roster of pollution prevention team members is provided in Table 1. The team is responsible for developing the Stormwater Pollution Prevention Plan (SWPPP) and for assisting in the implementation, maintenance and revision of the plan as well as maintaining control measures and taking corrective measures, where required. The roster includes the name, title, phone number, position/title, and responsibilities of each member of the team. This roster will be updated as necessary. Each member of the stormwater pollution prevention team has access to either an electronic or paper copy of this plan and associated discharge permit (GSI-----). At least one team member will be present at the facility or on call during all operational shifts.

The City of Hartford Department of Public Works (DPW) maintains a Connecticut Department of Energy and Environmental Protection (CTDEEP)-certified operator at the Recycling Transfer Center at all times during operation in accordance with their Operation and Maintenance Plan. CTDEEP will work cooperatively with City of

Hartford personnel to implement this Stormwater Pollution Prevention Plan at the residential drop-off portion of the Transfer Center.

II. DESCRIPTION OF POTENTIAL POLLUTANT SOURCES

A. SITE PLANS

The Hartford Landfill consists of two distinct former disposal areas: a Non-Processible Waste Disposal Area and a Lined Ash Disposal Area. In addition, this plan includes a portion of the City of Hartford Recycling Transfer Center, which is partially located on CTDEEP-leased property. The remainder of the Hartford Transfer Station is located on property owned and operated by the City of Hartford and located immediately south of the landfill property. The Recycling Transfer Center is authorized under Registration No. 0640894-MTSGP under the General Permit for a Municipal Transfer Station. The limits of the Recycling Transfer Center included within the scope of this SWPPP include the concrete ramp and residential drop-off area, the used oil collection shed and features inside the fence-line south of the landfill, as well as the roll-off containers adjacent to the drop-off area. Soil, brush, and wood chip piles located south of the residential drop-off pad are not included in the scope of this document.

A Site Layout Plan (1" = 100') is presented as Figure 2 and, consistent with the General Permit requirements, includes the following, as applicable:

- North arrow and property lines;
- Outlines of existing buildings and structures;
- Overall site acreage, amount of impervious area and amount of impervious area in each drainage area and outfall;
- Outlines of drainage areas and direction of flow within the drainage area;
- Location of drainage and structural control measures,
- Location of stormwater conveyances;
- Locations of stormwater monitoring points including latitude and longitude;
- Areal extent of any wetlands to which stormwater discharges;
- Receiving surface water body to which the site discharges, including the identification of impaired waters;
- Locations of spills that have occurred after March 2012 (three years prior to the date of plan certification);
- Locations of discharges to a municipal storm sewer system;
- Locations of discharges to groundwater through an infiltration system;
- Locations where drainage run-on enters the site; and
- 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
- other potential pollutant sources.

In addition to the above-listed requirements, the following features are provided on the site map, as applicable, consistent with mapping requirements for facilities which operate under the refuse systems sector (Sector C, SIC 4953):

- 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.

B. SITE ACTIVITIES

The Hartford Landfill was operated since the 1940s as an unlined disposal area by the City of Hartford, prior to the operation of the site by Connecticut Resources Recovery Authority (CRRA, 1982-2014), CRRA's successor, the Materials Innovation and Recycling Authority (MIRA, 2014-2015) and finally by CTDEEP, beginning in 2015. In 1987, the Mid-Connecticut Resources Recovery Facility (RRF) was constructed by CRRA in the South Meadows section of Hartford, Connecticut. Ash residue from the RRF began to be disposed of in the northeast corner of the existing unlined disposal area. This ash residue disposal area was referred to as the "Interim Ash Disposal Area." The unlined disposal area, including the Interim Ash Disposal Area, was referred to as the Non-Processible Waste Disposal Area. Ash residue ceased being landfilled in the Non-Processible Waste Disposal Area as of February 1998, when the Lined Ash Area, constructed to the north of the Non-Processible Waste Disposal Area, became operational. With the operation of the RRF, the remainder of the Non-Processible Waste Disposal Area was historically used to landfill RRF emergency MSW bypass (as necessary), non-processible WPF materials, WPF process residue and bulky wastes which cannot be incinerated at the RRF, bulky wastes delivered directly to the site from Mid-Connecticut Project member Towns and special wastes approved by the CTDEEP. The western portion of the Non-Processible Waste Disposal Area has been capped with a membrane cap (complete in 2010) and the eastern portion has been capped with a Closure Turf™ capping system, consisting of a 50 mil LLDPE membrane overlain by a synthetic (HDPE) turf (completed in 2014). A 1MW solar array has been installed on top of the cap in the southeastern portion of the Non-Processible Waste Disposal Area and the local utility Connecticut Light & Power (CL&P) approved interconnection to its distribution system on June 17, 2014.

The Lined Ash Area was constructed in 1997 and began receiving ash residue in 1998. It features four cells that are double lined with 60-mil HDPE membrane. Closure of the Lined Ash Area with a 40-mil LLDPE membrane cap was completed in two phases. The first phase began in 2007 and was completed in 2008, and the second phase began and was completed in 2009.

On December 31, 2008, the MIRA/Hartford Landfill ceased receipt of all municipal solid wastes and ash residue in accordance with the terms of its solid waste permit. However, the landfill continued to receive clean fill and low level contaminated soil (approved by the CTDEEP for use in contouring and grading) until November 2013. Such materials are no longer received at the landfill.

The majority of Site buildings and potential pollutant areas are located in the southwestern portion of the Site. The locations of the features discussed in the following paragraphs are indicated in Figure 2.

A scalehouse and scale are located at the entrance to the landfill. Previously, trucks delivering materials to the landfill were required to stop, register, and have their incoming material load weighed. The scale is no longer in use and the scalehouse is currently used as an office area for City of Hartford DPW personnel.

The landfill leachate pre-treatment building is located immediately north of the scalehouse and houses the pH adjustment system used to pretreat leachate before its discharge to the sanitary sewer. A floor drain located in the building is connected to the sanitary sewer. A 700-gallon double-walled heating oil AST is located outside, west of the pre-treatment building.

Also associated with the leachate pretreatment system is the leachate storage tank, a 71,000-gallon, single-walled AST, located within concrete containment approximately 950 feet southeast of the pre-treatment building. The 25-foot diameter, 19-foot high tank receives inflow from the leachate collection system. Leachate from the leachate collection system is pumped to the tank via a force main which runs along the eastern side of the landfill.

A former vehicle maintenance building is located adjacent and east of the leachate pretreatment building. The facility was previously used for on-site equipment maintenance and storage of materials such as equipment lubricants, tools, landscaping equipment and spill cleanup materials. However, no vehicle maintenance is currently conducted in the building and the structure is used primarily for the storage of City of Hartford DPW trash collection bins (unused replacement bins). The former vehicle maintenance facility building also houses offices, restrooms, shower areas and a boiler room. Residual vehicle maintenance chemicals (e.g., virgin oils, antifreeze, hydraulic fluids) are still stored in the eastern portion of the building. These materials are stored in closed containers and located atop secondary containment trenches.

The control building for the groundwater flow control system (GFCS) is located near the landfill's entrance. The control building houses throttling valves, meters, monitoring appurtenances and the control panel for the GFCS.

The landfill is equipped with a landfill gas extraction system, gas condensate tanks, landfill gas condensate piping, and a gas flare that are operated/controlled by DeltaPro Energy, Inc. The majority of landfill gas is transferred off-site where it is burned for energy (the gas flare is only used under emergency circumstances). Historically, gas condensate was stored on-site in two (2) 1,000-gallon underground storage tanks (USTs) located near the landfill gas flare, southeast of the vehicle maintenance facility (see Figure 2). While still present, these tanks are no longer used to store landfill gas condensate. Landfill gas condensate from the Site is reportedly discharged to the sanitary sewer under a Groundwater Remediation Wastewater general permit (GGR001137) issued by CTDEEP on June 4, 2008.

An emergency generator with an attached 330-gallon diesel fuel "belly tank" (situated beneath the generator housing) is present adjacent to the landfill gas flare. The tank is double-walled and was installed circa 2013.

A former wheel wash structure/facility is located approximately 500 feet southeast of the vehicle maintenance facility and was historically used to clean soil from delivery vehicles' tires prior to the vehicles' departure from the site. The facility is equipped with an oil/water separator and a sediment chamber. The discharge from the facility was previously pumped from the oil/water separator to the leachate pre-treatment tank located in the southeastern portion of the Site. The wheel wash facility is no longer operated and is used for temporary vehicle storage and storage of spill response materials. CTDEEP personnel indicate the oil/water separator is slated to be sealed.

The Recycling Transfer Center is operated by the City of Hartford DPW for the use and benefit of the residents of the City of Hartford. Currently authorized users include property owners and renters who obtain a use permit from the City DPW.

The portion of the Hartford Transfer Station included in this SWPPP consists of the bulky waste and recyclables unloading area, where residents and authorized users may dispose of a variety of wastes and recyclables including paper goods, recyclable plastics, scrap metal and white goods, construction and demolition debris, furniture, and clean wood and leaves, and a used oil collection shed. The bulky waste/recyclables unloading area consists of an asphalt-paved ramp with concrete block walls that is surrounded by roll-off dumpsters for the collection of various bulky wastes, two smaller dumpsters for the collection of single-source recyclables, and two enclosed storage containers for the collection of used electronics. The used oil collection shed consists of an open-front wooden enclosure with a roof, concrete block foundation, and asphalt paved base. The shed contains used oil collection containers of varying sizes (5-gallon to 55-gallon), located atop and/or within secondary containment.

C. INVENTORY OF EXPOSED MATERIALS

An inventory of exposed materials at the Hartford Landfill is presented as Table 2.

D. NARRATIVE SUMMARY OF POTENTIAL POLLUTANT SOURCES

The following is a summary of potential stormwater pollutant sources.

1. Transfer Station

A variety of potential pollutant sources exist at the portion of the Transfer Station included in this SWPPP, including potential leakage and discharge from roll-off containers used for the storage of bulky waste, scrap metal, construction and demolition debris, potential leakage/discharge from dumpsters used to collect single source recyclables including paper, bottles and cans, and used electronics, potential spills/leakage and discharge from the used oil collection shed, as well as inadvertent spills or leaks from vehicular traffic at the Transfer Station.

The storage of used electronics within closed storage containers, as well as the location of used oil containers within a roofed enclosure with secondary containment provisions minimizes the potential for contact of these materials with precipitation. In addition, dumpsters for the collection of recyclables are provided with covers.

2. Waste Unloading Areas

With the exception of materials unloaded at the City of Hartford Bulky Waste/Recycling Center (discussed above), waste materials are no longer unloaded at the Site, due to the closure of landfill areas at the Site.

3. Outdoor Storage Areas

- Heating Oil Aboveground Storage Tank

A 700-gallon AST is located adjacent to the leachate pre-treatment building and is used to store oil used to heat the adjacent buildings. The tank is double-walled providing secondary containment.

- Emergency Generator Diesel Fuel “Belly Tank”

A 330-gallon diesel fuel “belly tank” is located beneath the emergency generator in the southern portion of the Site, adjacent to the landfill gas flare, and is used to fuel the generator. The tank is double-walled providing secondary containment.

- Leachate Storage Tank

Leachate from the Lined Ash Area leachate collection system is collected in a 71,000-gallon aboveground holding tank in the southeastern portion of the Site, prior to being pumped to the facility’s leachate pre-treatment facility. The leachate storage tank is surrounded by a concrete containment dike, which is approximately 6 feet high and provides a containment volume of 100% of the tank’s working capacity 60,600 gallons). The base of the containment dike slopes to a concrete sump. The sump is equipped with an outlet drain and manual gate valve. The valve is maintained in a closed position and locked under normal circumstances. After precipitation events, the accumulated precipitation is inspected and manually drained from the sump if it exhibits no evidence of contamination.

4. Liquid Disposal/Conveyance Systems

- Gas Condensate Storage System

Gas condensate generated as a by-product of the landfill gas collection system historically was stored in two 1,000-gallon underground HDPE tanks. Though still present at the Site, the tanks are no longer used, with landfill gas condensate now piped to the sanitary sewer system at Leibert Road. The landfill gas condensate system at the Site is operated and controlled by DeltaPro Energy, Inc.

- Ground Water Flow Control System (GFCS)

Groundwater is extracted by four pumps and conveyed to a control building

(GFCS building) for flow measurement and sampling. The groundwater is then discharged to the MDC-Hartford sanitary sewer system via a 6-inch HDPE underground pipe. The pumped groundwater is fully contained within the pipe conveyance systems. Sampling is conducted using the sampling port located inside the GFCS control building. The building is equipped with absorbent pads, booms and Speedi-Dri for use in the cleanup of any spills that could occur. The trench drain located in the eastern portion of the building is sealed. No other floor drains are present within the building.

- Ash Leachate Force Main Pressure Relief Valve

The ash leachate force main runs from a sump area on the western side of the landfill into the leachate lift station located on the southeastern side of the property. From there, the ash leachate force main runs northerly along the eastern side of the landfill. At a point about half-way along this run, where the main access road turns west to climb the hill, a manhole is present that contains a pressure relief valve. Should that valve fail, a release of leachate would be possible.

5. Other Potential Pollutant Sources

Leaks of oil or hydraulic fluids onto paved surfaces from vehicles entering the Site could potentially enter the stormwater drainage system. Vehicle activity at the Site is concentrated primarily in the southwestern portion of the Site, at the City of Hartford bulky waste/recycling center.

Drummed equipment maintenance fluids (hydraulic oils, antifreeze, degreaser, etc.) are stored within the former Vehicle Maintenance building in the southwestern portion of the Site. These materials are stored in the eastern portion of the building, atop a secondary containment trench.

Pollutant sources also include the ground and pole-mounted electrical transformers present at the landfill. The dielectric fluid contained within these devices has the potential to impact stormwater runoff from spills or leaks.

The presence of the geomembrane within the final landfill cover prevents the discharge of leachate seeps from capped areas of the landfill.

Table 2 lists the potential pollution sources and their associated pollutants.

E. SPILLS AND LEAKS

A review of the information in the Oil and Chemical Spill Response files at the Connecticut Department of Energy and Environmental Protection (CTDEEP), conducted by GZA in February 2015 indicated that there had been no oil or chemical spills reported at the Facility since January 1, 2012. However, GZA notes that, during a March 11, 2015

visit to the Site, an oily sheen was observed on snowmelt emanating from the vicinity of an excavator that was parked to the east of the former vehicle maintenance building at the Site. The contaminated snowmelt was observed discharging to an adjacent catch basin to the south/southeast of the excavator equipment. GZA and DEEP responded to the discharge by placing absorbent materials at the excavator and around the receiving catch basin. DEEP's Emergency Response and Spill Prevention Division was also notified and reported to the scene to clean up the spill. A copy of the draft Emergency Response and Spill Prevention Division Incident Report is included in Appendix G.

A table to summarize spills and leaks of five gallons or more of petroleum products or toxic or hazardous substances that may occur at the facility and which could affect stormwater is provided in Appendix G.

III. MONITORING PROGRAM

A detailed description of the monitoring program which will be completed annually can be found in CTDEEP's "General Permit for the Discharge of Stormwater Associated with Industrial Activity", effective date October 1, 2011 (see Appendix A).

There are four (4) existing stormwater drainage areas at this site. The following is a list of the existing drainage areas, outfalls and sampling locations. The outfall numbers are referenced on the Site Layout Plans (Figures 2 and 3):

| Drainage Area | 001 | 002 | 003 | 002A |
|--------------------------|--|--|--|--|
| Outfall Number | DSN 001 | DSN 002 | | DSN 002A |
| Outfall Type | Concrete lined drainage ditch (SE corner) | Rip Rap Swale (SW corner) | Pipe/Swale/Catch Basin | 15" RCP (SW corner) |
| Sampling Location | At southeast corner. | At southwest corner, prior to entering 30" RCP, to cross under access road and outlet to CTDOT's drainage channel. | Outlet of detention and sediment control basin. | At culvert prior to entering CTDOT's drainage channel. |
| Collection Area | Approximately 42 acres from sheet flow off of upland landfill areas. | Approximately 31 acres from sheet flow off of upland landfill areas. | Approximately 42 acres from sheet flow off of upland landfill areas. | Approximately 13 acres from a combination of sheet flow off of upland landfill areas and from the paved entrance and access-way. |

| Drainage Area | 001 | 002 | 003 | 002A |
|-------------------------------------|---|---|---|---|
| Outfall Number | DSN 001 | DSN 002 | DSN 002A | |
| Receiving Surface Water Body | North Meadows Pond and Pumping Station (located approximately 3,000 feet south/southwest of the landfill), which discharges to the Connecticut River. | North Meadows Pond and Pumping Station (located approximately 3,000 feet south/southwest of the landfill), which discharges to the Connecticut River. | North Meadows Pond and Pumping Station (located approximately 3,000 feet south/southwest of the landfill), which discharges to the Connecticut River. | North Meadows Pond and Pumping Station (located approximately 3,000 feet south/southwest of the landfill), which discharges to the Connecticut River. |

Given that the landfill areas in drainage areas 002 and 003 have been closed, that both areas are considered substantially identical based on the limited industrial activity that occurs in each area, the lack of significant paved or impervious surfaces within each drainage area, and the substantially similar mechanisms for potential stormwater pollution (e.g., vehicular traffic, spills, surface runoff and erosion), sampling location DSN002 within drainage area 002 has been selected as representative of both drainage basins.

Five types of monitoring will be conducted at the Hartford Landfill;

1. Quarterly Visual Monitoring
2. Quarterly Benchmark Monitoring
3. Semi-Annual Outfall Monitoring
4. Annual Effluent Limitation Monitoring
5. Annual Impaired Waters Monitoring

Each type of monitoring is described in more detail below.

Quarterly Visual Monitoring of stormwater will be conducted in accordance with Section 5(e)(1)(A)(i) of the General Permit. Inspections will be conducted at the same locations as the outfall monitoring (DSN001, DSN002, and DSN002A). During the visual monitoring, a sample of stormwater will be collected from each of the sampling locations identified in Figure 2 and a visual assessment conducted. The visual assessment will be made:

- Of samples that are representative of the stormwater discharge;
- Of a sample in a clean, clear glass or plastic container, and examined in a well-lit area;
- For storm events, on discharges that occur at least 72 hours (3 days) from the previous discharge.

The sample will be visually inspected for the following water quality characteristics:

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

Documentation of the visual assessment will include:

- Sample location(s)
- Sample collection date and time, and visual assessment date and time for each sample;
- Personnel collecting the sample and performing visual assessment, and their signatures;
- Nature of the discharge (i.e., runoff or snowmelt);
- Results of observations of the stormwater discharge;
- Probable sources of any observed stormwater contamination,

The schedule for quarterly visual assessments is presented in the following table.

| Quarter | On or before date |
|-------------------------|--------------------------|
| 1 st Quarter | January 1 |
| 2 nd Quarter | April 1 |
| 3 rd Quarter | July 1 |
| 4 th Quarter | October 1 |

Quarterly Benchmark Monitoring is required for Sector C Refuse Systems as follows:

| Parameter | Frequency | Units | Benchmark Level |
|------------------|------------------|--------------|------------------------|
| Total Iron | Quarterly | mg/L | 1.0 |

Quarterly benchmark sampling shall be conducted at the same time as the quarterly visual assessments and will include samples collected from the same outfalls as the quarterly visual monitoring (DSN001, DSN002, and DSN002A). The samples will be collected in a laboratory-supplied sample bottle and submitted to a state-certified chemical laboratory for total iron analysis using an analytical method prescribed in 40 CFR Part 136.

Once the data have been received they shall be reviewed versus the benchmark level indicated above.

Data not exceeding benchmarks: After collection of 4 quarterly samples, if the average of the 4 monitoring values does not exceed the benchmark the monitoring requirements for that parameter will be fulfilled for the permit term.

For averaging purposes any individual sample parameter which is determined to be less than the method detection limit, use a value of half the analytical method detection limit reported by the analyzing laboratory. 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.

Data exceeding benchmarks: After collection of 4 quarterly samples, if the average of the 4 monitoring values exceeds the benchmark, in accordance with Section 5(e)(1)(B), the selection, design, installation, and implementation of control measures must be reviewed to determine if modifications are necessary to meet the effluent limits in this permit, and CTDEEP must either:

- Make the necessary modifications and continue quarterly monitoring until 4 additional quarters of monitoring are completed for which the average does not exceed the benchmark; or
- Within 120 days make a determination that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practice to meet the technology-based effluent limits or are necessary to meet the water-quality-based effluent limitations in the semi-annual monitoring section of this plan, in which case monitoring must continue once per year. The rationale for concluding that no further pollutant reductions are achievable must be documented and submitted to the CTDEEP, and all records related to this documentation must be retained with this SWPPP.

Semi-Annual Outfall Monitoring will include the collection of samples twice per year from the same outfalls as the quarterly visual monitoring (DSN001, DSN002, and DSN002A).

- Each of the outfalls will be sampled semi-annually on the following schedule:

| Semi-Annual Period | Dates |
|--------------------|-------------------------|
| Winter Period | October 1 to March 31 |
| Summer Period | April 1 to September 30 |

- Grab sample collection shall begin within the first thirty (30) minutes of a storm event discharge and be completed as soon as possible. A rainfall pH measurement must be taken at the same time.

- Samples are to be collected from a storm event that occurs at least 72 hours after any previous storm event that generated a stormwater discharge.
- Samples are to be collected at the outfall or nearest feasible location representative of the discharge.
- If feasible, all samples are to be collected during the same storm event.
- The Stormwater Monitoring Reports (SMRs), which are kept with this Plan for at least five (5) years following the expiration of the General Permit, are used to record the necessary information for the storm event monitored and the monitoring results. The completed forms must also be submitted to the CTDEEP, as discussed later in this section. A blank copy of the SMR for Sector C facilities, as well as recent monitoring results, is found in Appendix C.

During monitoring, the following information is to be collected and included in the Sampling Information section of the CTDEEP SMR form:

- Sampling Location: (For example, "DSN 001")
- Date and time of sample collection
- Name and title of person collecting the sample
- Date, temperature, and time of the start of the discharge
- Storm magnitude (total amount of rain in inches)
- Storm duration (total length of storm in hours)
- Date of previous measurable rainfall storm event (must generate stormwater runoff and be at least 72 hours previous)
- Rainfall Ph

The General Permit specifies analytical parameters for industrial stormwater discharges. It also requires that permittees monitor those pollutants limited in an EPA stormwater effluent guideline to which the permittee is subject. Each of the representative locations will be analyzed for the parameters specified below, as required by Section 5(c)(1)(A)(i) of the General Permit on a twice per year basis. One monitoring event shall be conducted between October 1 and March 31. The other monitoring event shall be conducted between April 1 and September 30. Monitoring events shall be separated by at least 30 days.

- Total Oil and Grease
- pH
- Chemical Oxygen Demand
- Total Suspended Solids
- Total Phosphorus
- Total Kjeldahl Nitrogen
- Nitrate as Nitrogen
- Total Copper

- Total Zinc
 - Total Lead
 - Aquatic Toxicity*
- *Once per year for first 2 years of permit term

In addition, uncontaminated rainfall pH shall be measured at the time the samples are collected.

The table below contains the parameters to be analyzed for by a state certified laboratory. If the results for the parameters specified in the General Permit are below the concentrations listed for two consecutive years, sampling may be suspended for those parameters for the following two years. (Refer to Appendix C for previous sampling results.)

| PARAMETER | UNITS | CONCENTRATIONS |
|-------------------------|-------|------------------------|
| Total Oil and Grease | mg/L | 5 |
| Chemical Oxygen Demand | mg/L | 75 |
| Total Suspended Solids | mg/L | 90 |
| 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 | 0.160 |
| Aquatic Toxicity | - | LC ₅₀ > 50% |
| pH | S.U. | 5-9* |

*Subject to more restrictive 6-9 pH limit under Sector C Refuse Systems.

The majority of the General Permit analyses are conducted according to the procedures prescribed in Title 40, CFR, Part 136 (1990), promulgated pursuant to Section 304(h) of the Federal Water Pollution Control Act.

The analysis for acute toxicity biomonitoring is conducted according to the procedures prescribed in Methods for Measuring the Acute Toxicity of Effluents and Receiving Waters to Freshwater and Marine Organisms, 5th Ed., EPA 821-R-02-012, and in accordance with the specific conditions noted in the Stormwater General Permit, effective October 1, 2011 (modified December 3, 2013). Toxicity tests must be initiated within 36 hours of stormwater sample collection.

Annual Effluent Limitation Monitoring includes the following parameters which must be monitored once per year for the term of the permit and are consistent with the Sector-Specific Effluent Limitations for “Sector C Refuse Systems” which apply to category “5”

under the definition of industrial activity. The table below contains the parameters to be analyzed for by a state certified laboratory. The permittee must monitor contaminated stormwater discharges for the parameters specified in the Sector-specific guidelines for the entire term of the General Permit.

| PARAMETER | UNITS | CONCENTRATIONS |
|------------------------|-------|----------------|
| BOD ₅ | mg/L | 140 |
| Total Suspended Solids | mg/L | 88 |
| Ammonia (as N) | mg/L | 10 |
| α-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 | S.U. | 6-9 |

*For Sector C annual monitoring. Semi-annual monitoring is subject to the more restrictive 0.160 zinc limit for General Industry.

The majority of the General Permit analyses are conducted according to the procedures prescribed in Title 40, CFR, Part 136 (1990), promulgated pursuant to Section 304(h) of the Federal Water Pollution Control Act.

Exceedance of an effluent limitation is a violation of the general permit and must be reported to the DEEP in accordance with Section 22a-430-3(j)(11)(D). This section of the regulations states:

“The permittee shall, within two hours of becoming aware of the circumstances, and at the start of the next business day if he or she becomes aware of the circumstances outside normal business hours, notify the director and, for discharges to POTWs, the responsible person under subparagraph (8) (A) of this subsection of any actual or anticipated noncompliance with permit terms or conditions if (i) the noncompliance is greater than two times the permitted level except for violations of any maximum daily limitation in an NPDES permit, in which case all violations shall be reported or (ii) the condition may endanger human health, the environment or the operation of a POTW, including sludge handling and disposal, and shall submit a written report to the director within five days thereafter. Such report shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times, and, if the noncompliance has not been corrected, the anticipated time it is expected to continue, and steps taken or planned to reduce, eliminate and prevent recurrence of the noncompliance. Notification of actual or anticipated noncompliance does not stay any permit term or condition”

Monitoring results must be submitted on SMR forms within 90 days of the date of sampling to:

Water Toxics Program Coordinator
Bureau of Water Protection and Land Reuse
CT Department of Energy and Environmental Protection
79 Elm Street
Hartford, CT 06106-5127

Annual Impaired Waters Monitoring: As a facility which may discharge stormwater to an impaired water (Connecticut River) without an EPA approved or established TMDL, the facility must monitor once per year at each outfall (except substantially identical outfalls) discharging stormwater to impaired waters. This monitoring requirement does not apply after one year if the pollutant for which the waterbody is impaired is not detected above natural background levels in the stormwater discharge, and CTDEEP documents that this pollutant is not expected to be present above natural background levels in the discharge. Annual stormwater monitoring is required for stormwater discharges to the upper reaches (Sector 03) of the Connecticut River for the following parameters:

- Polychlorinated biphenyls (PCBs), and
- Enterococcus bacteria (brackish or saltwater surface waters[†]).

[†]*According to CTDEEP's Water Quality Classifications Map for Hartford (August 2014), the segment of the Connecticut River located in the Site area is classified "SB," indicating saline surface water.*

Monitoring may be discontinued after the first year of monitoring if the indicator pollutant is not detected or CTDEEP approves the permittee's documentation demonstrating the pollutant is attributable solely to natural background or off-site pollutants or is the result of run-on entering the site from off-site that cannot be diverted. A summary of monitoring requirements is provided as Table 4.

IV. MEASURES AND CONTROLS

A. GOOD HOUSEKEEPING

1. Facility Descriptions

- **Transfer Station:**

The Transfer Station is owned and operated by the City of Hartford. The portion of the facility included in this SWPPP consists of a concrete/asphalt ramp and unloading area where residents and authorized users may dispose of a variety of wastes and recyclables including paper goods, recyclable plastics, scrap metal and white goods. The Transfer Station also includes a used oil collection shed that residents and authorized persons use for the collection of used oil. Used oil collection containers are located on secondary containment inside an open-front

wooden enclosure with a roof and concrete block foundation. Operations, inspection, and maintenance of the Transfer Station is the responsibility of the City of Hartford and shall be conducted as required for Transfer Stations under Section 5(f)(3)(D)(iii) of the General Permit, and by the most recent version of the Transfer Station Operations and Maintenance Plan.

- **Former Vehicle Maintenance Building:**

This building consists of a fully-enclosed metal structure. Residual vehicle maintenance fluids are stored inside the eastern portion of the building, in closed containers and atop a grated secondary containment sump. Spill cleanup materials are also stored inside the building. Sinks, toilets, and a shower floor drain located in the western portion of the building discharge to the sanitary sewer.

- **Scale House:**

The sanitary discharge from this building is from sinks, toilets and restroom floor drains, which are connected to the sanitary discharge sewer line. There are no known toxic or hazardous substances stored in the scale house.

- **Ground Water Collection and Pump System Control Building:**

This facility is equipped with absorbent booms, pads and Speed-Dri to be used in case of leaks or spills.

- **Leachate Pre-Treatment Building:**

Chemicals (i.e., sulfuric acid and sodium hydroxide) used in the pH adjustment process are provided with secondary containment. Up to three drums of virgin chemicals are stored on a secondary containment pallet with a capacity of approximately 110 gallons, while the two 50-gallon reagent tanks are staged within secondary containment basins capable of holding greater than 110% of each tank's contents. The leachate pre-treatment room was constructed with a floor drain, which is connected to the sanitary sewer discharge line. Therefore, spills within the building would discharge to the sanitary sewer.

- **Former Vehicle Wheel Wash Building**

Trench drains within the former vehicle wheel wash building are connected to an underground oil/water separator. The oil/water separator in turn discharges to a sediment chamber, then to a lift station, and finally to the leachate storage tank. Discharges from trench drains in the former vehicle wash building would be treated along with leachate in the pre-treatment building prior to being discharged to the sanitary sewer. Spill response materials are stored in the building.

2. Miscellaneous Outside Activities

The following general good housekeeping procedures are followed.

- Water from the washing of equipment or vehicles is not allowed to be discharged to the storm drain system.
- Spills are immediately contained and absorbed using available spill response materials (e.g., loose absorbent, pads/booms, shovels)
- Spigots or funnels are used to minimize drips or leaks when transferring fluids.
- No open or closed drums (empty or full) are stored outdoors or uncovered.
- Transfer station loading and unloading areas are scraped and/or swept as necessary to prevent the build-up of refuse in these areas.
- Note that the relatively small proportion of the site occupied by roof areas is not expected to contribute to stormwater pollution.

B. PREVENTIVE MAINTENANCE

The following is a list of preventive maintenance procedures practiced at this facility:

- Catch basins and sediment chambers will be cleaned annually, or as needed, generally between April 1 and May 1. Material removed will be disposed of in an appropriate manner.
- Drainage swales will be kept clear as needed.
- Vegetation will be maintained in the channels, especially along the south side of the site (adjacent to the Hartford Public Works parcel) and in the rip rap swale along the west side of the site. Coordination with CTDOT may be necessary for proper maintenance of the drainage channel at the southwest corner of the site.
- Paved surfaces will be swept as needed to remove accumulated dust and sediment, and non-paved surfaces will be watered as necessary to mitigate blowing of dirt.
- Spills of liquid hazardous/toxic substances or petroleum products to paved roadways will be promptly absorbed and properly disposed of.

C. SPILL PREVENTION AND RESPONSE PROCEDURES

1. Spill Prevention Procedures

In general, industrial materials and commodity products/chemicals are kept inside buildings, which are locked when not in operation or the materials are contained in secure tanks within the fence line of the landfill property. The entire Site perimeter is fenced to prevent vandalism and trespassing.

Aboveground storage tanks are equipped with secondary containment features, which minimize the potential for spills to occur. These features are described for the various tanks below.

- 700-Gallon Fuel Oil Tank

The 700-gallon fuel oil tank is a double-walled, thermally protected, fire-rated tank. The tank provides secondary containment (110% of the primary tank's capacity), thermal insulation and emergency venting for a two-hour fire rating (i.e., tank integrity would remain stable for at least two hours if a fire were to surround the tank system). A light-weight porous insulation material is present in the interstitial space between the inner and outer tank walls. The interstitial space can be monitored through a pipe that extends to the top of the tank from a small sump at the bottom exterior of one end of the tank. The tank is also fitted with an overfill alarm system. A high-level float switch detects potential overfill situations and triggers audible and visual alarms. The tank is located adjacent to the leachate pre-treatment building and is surrounded on two sides by wooden fencing.

- 330-Gallon Diesel Fuel Generator Tank

The 330-gallon diesel fuel "belly tank" for the emergency generator is a double-walled steel tank that sits beneath the generator housing. The tank is located adjacent to the landfill gas flare and is surrounded by chain-link fencing.

- Leachate Storage Tank

The ash leachate storage tank is a 25-foot diameter, 19-foot high tank. The tank is equipped with a level sensor and high- and low-level switches. The liquid level in the tank can be read at the leachate pre-treatment system control panel and a high-level alarm is also provided at the control panel. In addition, due to a spill event in October 2005 a redundant high level sensor was installed in the leachate storage tank. The height of leachate in the tank is maintained at or below 16.5 feet (for a working capacity of approximately 60,600 gallons). When accumulated leachate reaches the high-level set-point of 16.5 feet an autodialer is enabled which notifies landfill personnel of the condition so that appropriate responses can be taken in advance of an overtopping event. The leachate storage tank is surrounded by a concrete containment dike, which is approximately 6 feet high and provides a containment volume of 100% of the tank's working capacity. The base of the containment area is sloped to a corner sump. The sump is equipped with drain piping and a manual gate valve, which is maintained in the closed position and locked with a padlock. After precipitation events, which cause ponding of water within the secondary containment area, the accumulated water is inspected for evidence of tank leakage. If no evidence of leakage is observed, the accumulated water is manually drained from the containment area and the drain valve is returned to its closed position.

Spill prevention procedures include materials management procedures designed to minimize the potential for spills to occur during material handling, security measures and operation and maintenance procedures.

Tank truck loading/unloading (for heating oil deliveries) is the major potential source of spills at the facility. Tank truck loading/unloading procedures are conducted under the supervision of facility personnel to ensure that proper procedures are followed and to ensure prompt response in the event of a release.

Other potential sources of spills include the transfer of used oil to collection containers at the used oil collection shed. Used oil will be transferred to collection containers using funnels, over secondary containment, and under the supervision of City of Hartford DPW personnel. Spills of oil will be promptly contained, absorbed and removed using available spill response materials.

Sample ports in the GFCS control building housing the groundwater pumping pipe network are also a potential source of spills. The sample ports are kept closed except when sampling.

2. Emergency Response Equipment

Spill cleanup materials (Speedi-Dri, absorbent pads and booms) are maintained onsite at:

- the Leachate Pre-treatment Building

- the Control Building (for groundwater collection and pumping)
- the former Wheel Wash Building

Spill cleanup equipment maintained at the Leachate Pre-Treatment Building also includes protective clothing, a magnetic storm drain cover, hazardous material disposal bags, a chemical spill warning sign, and a shovel. All personnel are instructed in the equipment's location and use.

First aid kits and first aid supplies are maintained at the scalehouse.

Landfill operations and City of Hartford DPW staff members are equipped with cell phones which can be used to notify others of the presence of a spill.

ASTs at the landfill are equipped with alarms or other features (e.g., secondary containment, sight glass) to notify personnel of potential spill conditions. See Section IV.C.1 for additional discussion.

The leachate pre-treatment room is equipped with an emergency eyewash station. Employee showers are provided in the Vehicle Maintenance Facility.

Landfill gas extraction wells are located throughout the landfill entrance area, minimizing the potential for landfill gas to enter the site structures. The GFCS control building is equipped with a gas monitoring system which automatically engages a ventilation system if landfill gas should accumulate. The leachate pre-treatment building is also equipped with a gas monitoring system.

3. Spill Response Procedures

A copy of spill response procedures for the facility is in Appendix H to this SWPPP.

D. INSPECTIONS

Inspections will be conducted in accordance with the CTDEEP General Permit for the Discharge of Stormwater Associated with Industrial Activity (effective October 1, 2011, modified December 3, 2013).

Facility personnel who are familiar with facility operations, this SWPPP and best management practices (BMPs) will inspect areas of the facility where industrial materials or activities are exposed to stormwater. Stormwater inspections will be performed by stormwater pollution prevention team members identified in Section I of this plan. The General Permit requires the following two types of stormwater inspections:

- Routine Inspections (General Permit; Section 5(d)(2)), and
- Semi-Annual Inspections (General Permit; Section 5(d)(1)).

In addition, Section 5(f)(3)(D)(iii) of the General Permit requires weekly inspections and daily site “walkthroughs” for transfer stations.

Each type of inspection is described below.

Routine facility inspections are performed at all areas of the facility where industrial materials or activities are exposed to stormwater, and of all stormwater control measures. Inspections cover all stormwater systems and structural control equipment such as catch basins as well as the facility in general for effective implementation of the BMPs. Inspections will be conducted while the facility is in operation, with at least one inspection conducted during a period when stormwater discharge is occurring.

The condition (or status) of the following items should be noted in the inspection report:

- Evidence of, or potential for, pollutants entering the storm drainage system;
- Measures and controls that were implemented to reduce pollutant discharges to determine if they are adequate;
- Evidence of non-stormwater discharges to stormwater system;
- Outdoor equipment storage areas;
- Verify no oil products are stored outdoors without secondary containment, this includes containerized materials left by residents at the Transfer Station;
- Loading/unloading areas;
- Storm drainage outfalls;
- Unstabilized soil subject to erosion;
- Spill response equipment;
- Observation of the installed structural controls (i.e., catch basins) to determine if they are performing as needed to achieve the requirements of the General Permit; and
- Facility's overall compliance with the General Permit.

The evaluations will include visual inspection of the fuel fill ports, roll-off compactor/container areas, transformers, loading and unloading areas, used oil and/or antifreeze storage tanks, single-source recycling containers, and any other potential sources or controls of stormwater pollution identified at the facility for evidence of, or the potential for, pollutants entering the stormwater drainage system.

The following areas/items will be inspected at the frequency indicated, but in no case any less frequently than once per month, for leaks/spills, maintenance and good housekeeping.

- City of Hartford - Daily: All unloading and loading areas, waste containers and drop-off areas, including the Transfer Station and used oil collection shed, will be inspected for cleanliness and evidence of spills.

- City of Hartford – At All Times Open to the Public: Someone is to be present at the facility to regulate placement of wastes or other materials, monitor the delivery and removal of liquid materials (e.g., fuels, gas condensate), and to ensure that cleanliness is maintained at the facility.
- Monthly: The sample ports in the GFCS control building will be checked for leakage.
- Monthly: Aboveground fuel storage tanks and dispensers will be inspected for signs of corrosion or leaks and the adjacent ground area will be inspected for stains from spills.
- Monthly: Sand and salt mixtures used in wintertime snow and ice control will be inspected to verify the presence of covers/tarps.
- Monthly: The underground storage tank areas will be inspected for signs of spills or leakage, and qualified personnel trained in spill response procedures will observe all transfers to and from the tank.
- Monthly: Spill response equipment will be inspected monthly to ensure materials are fully stocked and available at their designated locations.
- Quarterly: Inspect stabilization and structural control measures.
- Quarterly: Inspect leachate collection and treatment system.
- Quarterly: Inspect closed landfill areas, including fence integrity.
- Following Significant (>0.1 inch) Rainfall Events: The containment area surrounding the aboveground leachate storage tank will be inspected and the accumulated precipitation will be manually drained from the containment area if it exhibits no sign of contamination.
- Any other potential sources or controls of stormwater pollution identified at the facility for evidence of, or the potential for, pollutants entering the stormwater drainage system.

Semi-Annual Inspections will be performed at the same locations as the routine facility inspections. Comprehensive site inspections must be conducted by qualified personnel with at least one member of the stormwater pollution prevention team participating in the comprehensive site inspections. Inspectors must consider the results of the past year's visual and analytical monitoring when planning and conducting inspections. In addition, the inspectors must review the following documents prior to conducting the inspection:

- The most recent version of this SWPPP;

- The most recent version of site drawings;
- Prior semi-annual inspection reports;
- Results from quarterly visual monitoring reports;
- Results from analysis of stormwater discharge; and
- Any spill reports or corrective measures associated with stormwater controls.

Inspectors must examine the following:

- Industrial materials, residue, or trash that may have or could come into contact with stormwater;
- Leaks or spills from industrial equipment, drums, tanks, and other containers;
- Offsite tracking of industrial or waste materials, or sediment where vehicles enter or exit the site;
- Tracking or blowing of raw, final, or waste materials from areas not exposed to stormwater; and
- Control measures needing replacement, maintenance, or repair.

These inspections will be conducted at least once every six months, as indicated below:

Spring Inspection: January to July

Inspection shall generally be conducted after snowmelt to allow visual observation of surfaces and to allow identification of stormwater drainage and runoff patterns. This inspection shall be conducted during a rainfall event if possible. Target date is April.

Fall Inspection: July to December

Inspection shall generally be conducted in the autumn, prior to snow accumulation. This inspection shall be conducted during a rainfall event if possible. Target date is September.

At the completion of each semi-annual inspection, a report will be prepared. The report must be signed by the permittee and may be inserted into Appendix G of this SWPPP to assist with recordkeeping. The reports shall be retained for at least five (5) years. Each report must include:

- The date of the inspection;
- The names of the personnel who participated in the inspection;
- Observations made;
- Changes made to the SWPPP as a result of the semi-annual inspection; and
- A discussion of non-compliance situations observed and responses taken.

The permittee must amend the SWPP Plan as necessary to address any sources or potential sources of pollution identified as a result of each semi-annual inspection.

Inspections of Transfer Stations and Recycling Facilities

Per Section 5(f)(3)(D)(iii) of the General Permit, transfer stations must be inspected at least once every 7 days. Inspections must 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, daily site “walkthroughs” must be conducted for litter, focusing on the site perimeter, cover of waste containers, and areas the public has access for waste disposal or recycling drop-off.

E. EMPLOYEE TRAINING

The topics below will be covered at employee training sessions. Employees whose activities may affect stormwater quality will be trained annually, as required by the General Permit. New hires will complete the course for "All Employees" and any other appropriate segments of the training within 90 days of their start date. Training shall be provided by a member of the pollution prevention team or “*Qualified Person or Qualified Personnel*”, which means any person familiar with the content, requirements and objectives of the stormwater industrial General Permit and this SWPPP.

Pollution Prevention Team members will meet together at least biannually for the purpose of discussing the Plan, the semi-annual inspection, Good Housekeeping Measures and Preventive Maintenance Procedures and assuring an adequate stock of spill cleanup materials is maintained.

All Employees

- The Pollution Prevention Plan:

What it is - The Plan is an outline of potential sources of stormwater pollution and methods of reducing or eliminating that pollution.

What it contains - The Plan emphasizes good housekeeping measures and location of potential pollution sources.

Pollution Prevention Team - The team will be introduced, explaining that we are continually looking to avoid pollution to the stormwater management system and appreciate input and assistance.

- Discuss the location of storm drain structures and note the receiving water of the storm system to emphasize the importance of keeping pollutants out of the storm drain.

- Review of spill prevention and response procedures, including types and locations of available spill response equipment.
- Review of good housekeeping practices.
- A sign-off sheet for each annual training session will be signed by all attending employees and the supervising member of the Pollution Prevention Team is found in Appendix G and kept in the on-site Pollution Prevention Training folder.

F. NON-STORMWATER DISCHARGES

There are no floor drains in the on-site facilities that are connected to the storm drain system. The following is a description of the steps taken to ensure that there are no unpermitted non-stormwater discharges at this facility:

Review of plans and/or records: Yes

Results and Action Taken: Vehicle maintenance facility has floor drain, to building sewer, to outside underground oil and grease trap, to MDC sanitary sewer. Scale house has a floor drain in restrooms connected to sanitary discharge line. Leachate pre-treatment building has a floor drain connected to the sanitary discharge line.

Visual inspection: Yes

Results and Action Taken: Layout shown on plans and records were visually verified.

Dry weather observation: To be conducted circa May 2015 (large amounts of snowmelt currently interfering with dry weather inspections)

Results and Action Taken: To be determined (None anticipated)

Dye Tests: No

Results and Action Taken: Not necessary

The certification of non-stormwater discharges is presented in Section V.

G. SEDIMENT AND EROSION CONTROL

The General Permit requirements for Sector C – Refuse Systems include requirements for erosion and sedimentation control as follows:

“The permittee must provide temporary stabilization (e.g., temporary seeding, mulching, and placing geotextiles on the inactive portions of stockpiles) for the following: materials stockpiled for daily, intermediate, and final landfill cover; inactive areas of a landfill or open dump; landfills or open dump 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.”

Below is a list of potential erosion control areas and measures to prevent erosion:

1. Potential source of erosion: Equipment access roads.

Management practice(s) to prevent erosion: Permanent access roads are paved. Drainage swales are provided along the upgradient sides of permanent and temporary access roads to minimize potential erosion.

2. Potential source of erosion: Seasonal sand/salt stockpiles.

Management practice(s) to prevent erosion: CTDEEP will ensure that sand and salt used for snow and ice control will not be maintained on-site for more than 180 days each year. During wintertime storage, the sand and salt piles will be fully covered with tarps to minimize stormwater erosion at all times except when in use.

3. Potential source of erosion: Final landfill slopes.

Management practice(s) to prevent erosion: Provide downchutes to direct drainage from the final surfaces of the landfill down the side slopes with minimal erosion. Construct these downchutes as the landfill sideslopes are completed. Use benches to direct mid-slope drainage to the downchutes.

H. MANAGEMENT OF RUNOFF

The following runoff management practices are used at this facility:

- Catch basins have sumps installed.

- Drainage outfalls (e.g., downchutes) discharge to riprap pads or energy dissipaters.
- Runoff from the majority of the Non-Processible Waste Disposal Area goes to a detention/retention basin - the North Meadows Flood Control Pond. Stormwater from the Lined Ash Area is discharged to a sedimentation/detention basin. A sedimentation chamber is used prior to final discharge from the paved area.
- Woody vegetation is cut back over the landfill surface to promote a denser grass cover. Vegetation around swales is cut back annually to prevent clogging of the swales and to more readily allow for the observance of the stormwater discharges. In areas that are planted with final cover materials other than grass, cutback of the vegetation will not be conducted unless it is beneficial to the maintenance of the ground cover.
- The completed surface of each working area, sloped at a minimum of 4 percent to the exterior of the landfill, will also be graded and matched to the finished slope of previously completed working areas to provide a uniform completed surface. Interim drainage swales, diversion ditches, and berms may also be employed to direct runoff away from active working areas.

I. PLAN AMENDMENT

Consistent with section 5(c)(5) of the General Permit, the Stormwater Pollution Prevention Plan will be amended whenever:

- (1) There is a change at the site which has an effect on the potential to cause pollution of the surface waters of the State;
- (2) The actions required by the Plan fail to ensure or adequately protect against pollution of the waters of the State; or
- (3) CTDEEP (as regulator) requests modification of the plan;
- (4) CTDEEP (as facility operator) is notified that the receiving water 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.
- (5) CTDEEP (as facility operator) is notified that a TMDL to which the facility is subject has been established for the stormwater receiving water;
- (6) Amendment is necessary to address any significant sources or potential sources of pollution identified as a result of any inspection or visual monitoring;
- (7) It is required as a result of monitoring benchmarks or effluent limitations in “Monitoring” (Section 5(e)) or “Additional Requirements for Certain Sectors” (Section 5(f)).

The amended Plan will be completed and all actions required by the Plan will be completed within 120 days of the date CTDEEP becomes aware that any of the above conditions have occurred.

The Commissioner may notify CTDEEP at any time that the Plan does not meet one or more of the requirements of the General Permit. Unless otherwise advised by the Commissioner in writing, within 120 days of such notification from the Commissioner CTDEEP will revise the Plan, perform all actions required by the revised Plan, and will submit to the Commissioner in writing that the requested changes have been made and implemented, and such other information as the Commissioner requires.

V. PROFESSIONAL ENGINEER (PE) OR CERTIFIED HAZARDOUS MATERIALS MANAGER (CHMM) CERTIFICATION

HARTFORD LANDFILL, 180 LEIBERT ROAD, HARTFORD, CT

"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."


P.E./CHMM Signature

CHMM 2030
P.E./CHMM Number

3/25/15
Date

Professional Engineer (PE)/Certified Hazardous Materials Manager (CHMM) Certification for Non-Stormwater Discharges:

"I certify that in my professional judgement, 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 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."

Henry J. Cluen
P.E./CHMM Signature

CHMM 2030
P.E./CHMM Number

3/25/15
Date

VI. FACILITY CERTIFICATION

HARTFORD LANDFILL, 180 LEIBERT ROAD, HARTFORD, CONNECTICUT

The Connecticut Department of Energy and Environmental Protection, the registered permittee for the Hartford Landfill certifies the following pursuant to Section 5(c)(4) of the General Permit for the Discharge of Stormwater Associated with Industrial Activity:

"This Stormwater Pollution Prevention Plan is fully supported by the management of the CTDEEP, and will be implemented as herein described."

Raymond Frigon
Name and Title of Principal Executive Officer or Ranking Elected Official (Printed)

Raymond Frigon
Signature of Principal Executive Officer or Ranking Elected Official

3/24/15
Date

TABLES

**TABLE 1
POLLUTION PREVENTION TEAM
HARTFORD LANDFILL**

Rev: February 2015

| Name/Title/Office Phone | SWPP Title | Responsibilities |
|---|-------------|---|
| Raymond Frigon CTDEEP Environmental Analyst 3 (860) 424-3797 | Leader | Coordinate plan development, inspections and implementation and assure that the Plan is properly implemented in the event of changes or vacancies in assigned Pollution Prevention Team personnel; coordinate employee training program; keep inspection records; stormwater drainage system oversight. |
| Donna Seresin CTDEEP Sanitary Engineer 3 (860) 424-3267 | Team Member | Assist team leader with regulatory compliance, plan development/maintenance, trainings and inspections; review monitoring results and assist in stormwater drainage system oversight. |
| Jason Krechko GZA GeoEnvironmental Project Manager (860) 858-3152 | Team Member | Conduct quarterly, semi-annual and annual monitoring; collect and analyze stormwater quality samples and ensure stormwater monitoring reports are submitted to CTDEEP in a timely manner; conduct routine monthly and comprehensive semi-annual site inspections. |
| Ruth Kennedy GZA GeoEnvironmental Environmental Scientist (860) 858-3149 | Team Member | Conduct quarterly, semi-annual and annual monitoring; collect and analyze stormwater quality samples and ensure stormwater monitoring reports are submitted to CTDEEP in a timely manner; conduct routine monthly and comprehensive semi-annual site inspections. |
| City of Hartford DPW Personnel on Duty | Team Member | Conduct routine (daily/monthly) inspections (see Section D) |

Per Section 5(c)(2)(C) of the General Permit, at least one team member must be present at the facility or on call during all operational shifts.

**TABLE 2
EXPOSED MATERIAL INVENTORY
HARTFORD LANDFILL**

| MATERIAL | PURPOSE/ DESCRIPTION/ TANK SIZE/ AST/UST | LOCATION | OUTFALL | QUANTITY STORED | EXPOSED TO RAINWATER (from 3 years prior to date of permit to present) | | Comments/ Likelihood of contact with stormwater. If yes, describe reason. | Past Significant Spills or Leaks | |
|--|---|--|---------|---|---|----|---|-------------------------------------|----|
| | | | | | Yes | No | | Yes | No |
| Vehicle Maintenance Fluids (fuels, motor oils, coolants) | 55 gallon drums (sealed) | Former Vehicle Maintenance Facility (VMF) | 002A | Four (4) drums | | X | Stored indoors atop grated secondary containment sump. Not likely to contact precipitation. | | X |
| Stored Leachate | 71,000-gallon AST stores leachate prior to pre-treatment | South end of landfill | 001 | Working volume of ~60,000 gallons | X | | Secondary containment provided; accumulated precipitation is inspected for evidence of leaks prior to discharge; after failure of a level sensor resulted in a spill in 2005, improvements were made to the system to prevent automatic operation of pumps under non-normal operating range conditions; a redundant high level sensor has also been provided | | X |
| Metals and Bulky/Construction Debris | Roll-off trailers used to accumulate wastes brought to site by Hartford residents | Recycling Transfer Center | 002A | Varies (4-6 roll-off containers typical) | X | | Resident drop-off is managed by the City of Hartford. Trailers are leakproof and covered during non-operating hours. Bulky/construction debris trailers are emptied daily. | | X |
| Electrical Transformers (owned and operated by CL&P) | Various dielectric fluid-filled transformers, | Various locations on concrete pads and pole- mounted | 002A | Various | X | | Monitoring of the facility electrical system will alert personnel to issues associated with transformer | | X |
| Heating Oil | Double-walled AST | Northwest side of leachate pre-treatment building | 002A | 700 gallon tank | | X | Careful filling practices will prevent contact. | | X |

**TABLE 2
EXPOSED MATERIAL INVENTORY
HARTFORD LANDFILL**

| MATERIAL | PURPOSE/ DESCRIPTION/ TANK SIZE/ AST/UST | LOCATION | OUTFALL | QUANTITY STORED | EXPOSED TO RAINFALL (from 3 years prior to date of permit to present) | | Comments/ Likelihood of contact with stormwater. If yes, describe reason. | Past Significant Spills or Leaks | |
|---|---|---|-------------------|---|--|----|--|-------------------------------------|----|
| | | | | | Yes | No | | Yes | No |
| Emergency Generator Diesel Fuel Tank | Double-walled "belly tank" | Beneath emergency generator housing, adjacent to landfill gas flare in southern portion of Site | 002A | 330-gallon tank | X | | Careful filling practices will prevent contact. | | X |
| Gas Condensate | A byproduct of gas collection system, requires pumping of collection tanks | Historically stored in USTs at south end of site; currently piped to sanitary sewer | 001, 002, 002A | Two emergency storage 1,000- gallon tanks are present | | X | Currently minimal chance of contact with stormwater associated with failure of piping system which consists of a buried piping system | | X |

**TABLE 3
POTENTIAL POLLUTANT SOURCES
HARTFORD LANDFILL**

| Potential Pollutant | Source/Need | Amount of Product | Current Preventive Practices | Future Preventive Practices |
|--|--|---|--|---|
| Vehicle and Hydraulic Fluids | Trucks and Vehicles to Resident Drop Off Area | ---- | In and out unloading of vehicles, no parking | ---- |
| Scrap Metal Storage | Temporary stockpiling for recycling. | Varies | Recycling Transfer Center | ---- |
| Metals and Bulky Roll-offs | Resident drop off area | 50 cy trailers. | Recycling Transfer Center Leakproof, covered when not in use; typically emptied at night. | ---- |
| Antifreeze, Motor Oil, Hydraulic Fluid | Equipment maintenance | 4 - 55 gallon drums | Stored inside VMF. | Maintain spill response equipment inside building. |
| Heating Fuel | Building heat | 700 gallon AST (has secondary containment) | Careful filling practices. | Follow SOP for tank truck loading/unloading. |
| Pumped Groundwater | Discharged to Sanitary | Max. 200 gpm, 173,000 gpd max. | Fully enclosed system. | Keep absorbent pads near sample ports in control vault. |
| Landfill Gas Condensate | Transfer from landfill gas management area to sanitary sewer | Varies | Buried piping. | ---- |
| Leachate Treatment Chemicals | For pH adjustment of leachate | 3-55 gallon drums sodium hydroxide 1-55 gallon drum of sulfuric acid | Stored on/within dedicated secondary containment vessels inside the building. | ---- |
| Leachate | Transfer from Lined Ash Area to storage tank | Varies | Buried piping. | ---- |

**TABLE 3
POTENTIAL POLLUTANT SOURCES
HARTFORD LANDFILL**

| Potential Pollutant | Source/Need | Amount of Product | Current Preventive Practices | Future Preventive Practices |
|-----------------------|--|--|--|-----------------------------|
| Leachate | Storage prior to pre-treatment | AST with a working volume of ~60,000 gallons (has secondary containment) | Precipitation which accumulates in containment area is inspected for signs of leakage prior to discharge. Improvements to system programming and redundant high level sensors limit possibility of overfilling tank. | ---- |
| Leachate | Located in leachate treatment building. Treatment and discharge to sanitary sewer. | Treatment tank volume 1,000 gallons | Enclosed system with sample/probe ports. Floor drain in treatment room discharge to sanitary sewer. | ---- |
| Plastic Drainage Pipe | Landfill operations | Varies | Stored outdoors, adjacent to temporary storage building. | ---- |

**Table 4
Stormwater Industrial Sampling Summary**

Rev: March
2015

| Parameter | Sampling Frequency | Location | Type of Monitoring | Levels | Units | Data Evaluation |
|--------------------------|--|-------------------------|-------------------------------------|------------------------|--------------|------------------------|
| Ammonia (as N) | Once per year for term of permit | DSN001, DSN002, DSN002A | Sector-Specific Effluent Monitoring | 10 | mg/L | B |
| Aquatic Toxicity | Two times per year for first two years of permit | DSN001, DSN002, DSN002A | Standard Monitoring Requirement | LC ₅₀ > 50% | - | A |
| a-Terpineol | Once per year for term of permit | DSN001, DSN002, DSN002A | Sector-Specific Effluent Monitoring | 0.033 | mg/L | B |
| Benzoic acid | Once per year for term of permit | DSN001, DSN002, DSN002A | Sector-Specific Effluent Monitoring | 0.12 | mg/L | B |
| BOD ₅ | Once per year for term of permit | DSN001, DSN002, DSN002A | Sector-Specific Effluent Monitoring | 140 | mg/L | B |
| Chemical Oxygen Demand | Two times per year | DSN001, DSN002, DSN002A | Standard Monitoring Requirement | 75 | mg/L | A |
| Copper, Total | Two times per year | DSN001, DSN002, DSN002A | Standard Monitoring Requirement | 0.059 | mg/L | A |
| Enterococcus bacteria | Once per year | DSN001, DSN002, DSN002A | Impaired Waters Monitoring | None specified | colonies | D |
| Iron, Total | Four times per year | DSN001, DSN002, DSN002A | Sector-Specific Benchmark | 1.0 | | C |
| Kjeldahl Nitrogen, Total | Two times per year | DSN001, DSN002, DSN002A | Standard Monitoring Requirement | 2.3 | mg/L | A |
| Lead, Total | Two times per year | DSN001, DSN002, DSN002A | Standard Monitoring Requirement | 0.076 | mg/L | A |
| Nitrate as Nitrogen | Two times per year | DSN001, DSN002, DSN002A | Standard Monitoring Requirement | 1.1 | mg/L | A |
| Oil and Grease, Total | Two times per year | DSN001, DSN002, DSN002A | Standard Monitoring Requirement | 5 | mg/L | A |
| PCBs | Once per year | DSN001, DSN002, DSN002A | Impaired Waters Monitoring | None specified | mg/L | D |

| Parameter | Sampling Frequency | Location | Type of Monitoring | Levels | Units | Data Evaluation |
|------------------------|----------------------------------|-------------------------|---|------------------------------------|-------|-----------------|
| p-Cresol | Once per year for term of permit | DSN001, DSN002, DSN002A | Sector-Specific Effluent Monitoring | 0.025 | mg/L | B |
| pH | Two times per year | DSN001, DSN002, DSN002A | Standard Monitoring Requirement and Sector-Specific Effluent Monitoring | Standard: 5 to 9 Sector: 6 to 9 | S.U. | A, B |
| Phenol | Once per year for term of permit | DSN001, DSN002, DSN002A | Sector-Specific Effluent Monitoring | 0.026 | mg/L | B |
| Phosphorous, Total | Two times per year | DSN001, DSN002, DSN002A | Standard Monitoring Requirement | 0.4 | mg/L | A |
| Total Suspended Solids | Two times per year | DSN001, DSN002, DSN002A | Standard Monitoring Requirement and Sector-Specific Effluent Monitoring | Standard: 90 Sector: 88 | mg/L | A, B |
| Zinc, Total | Two times per year | DSN001, DSN002, DSN002A | Standard Monitoring Requirement and Sector-Specific Effluent Monitoring | Standard: 0.16 Sector 0.200 | mg/L | A, B |

Data Evaluation

A. Standard monitoring benchmark analysis is required twice per year. If the average for four sequential monitoring events does not exceed the level indicated, the monitoring requirements for those parameters have been fulfilled for the permit term. If the average exceeds the level indicated, the permittee must, within 120 days, review the selection, design, installation and implementation of control measures and either make modifications, or document that no further pollutant reductions are technologically available and economically practicable and achievable in light of best industry practices.

B. Sector-specific effluent monitoring is required twice per year. Exceedance of any pollutant limit is a permit violation.

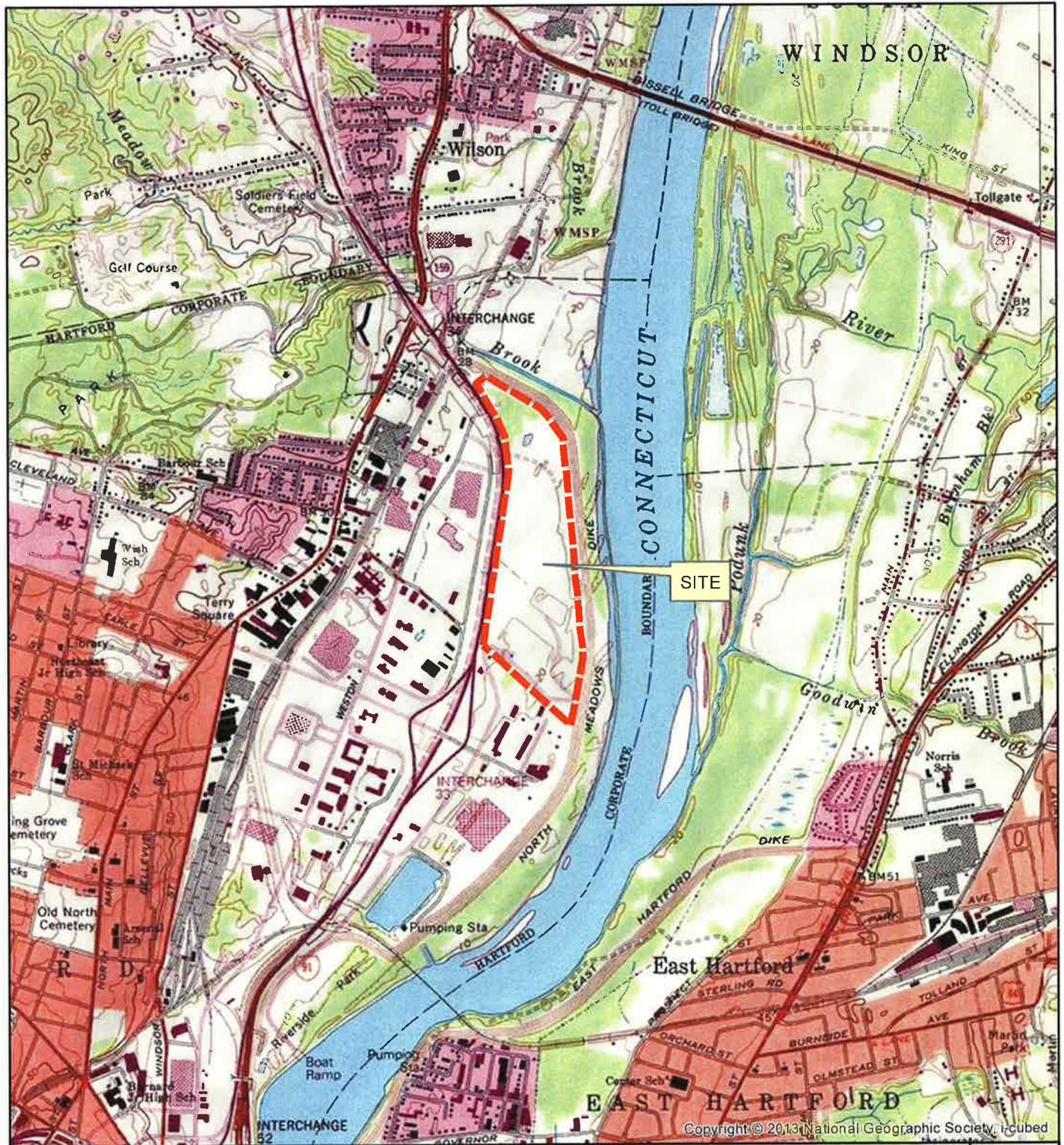
The permittee shall notify CTDEEP of any exceedance that is greater than two times the level indicated or the condition may endanger human health, the environment or the operation of a POTW, including sludge handling and disposal. This notification shall be made within two hours of becoming aware of this circumstance. The permittee shall follow-up the notification with a written report to the CTDEEP within five days.

If the average of four samples exceeds the level indicated, or if the exceedance is mathematically certain after the collection of less than four samples, the permittee must evaluate whether modifications to the stormwater control measures used are necessary. Consider whether there is a problem in the selection, design, installation, and/or operation of applicable control measures. Follow the evaluation and corrective action process in Section 5(e)(1)(B) and update this Plan as required by Section 5(c)(5).

C. Sector-specific benchmark sampling is required four times per year. Evaluation of benchmark results shall be conducted as indicated in (A) above for the standard monitoring benchmark analysis.

D. Impaired waters monitoring is required once per year. Monitoring may be discontinued after the first year of monitoring if the indicator pollutant is not detected or CTDEEP approves the permittee's documentation demonstrating the pollutant is attributable solely to natural background or off-site pollutants or is the result of run-on entering the site from off-site that cannot be diverted.

FIGURES



GZA GeoEnvironmental, Inc.
 Engineers and Scientists
 www.gza.com

USGS 7.5 MINUTE
 QUADRANGLE BASE MAP
 HARTFORD, CONNECTICUT
 1997

| | | |
|---|------------------|---------------------------|
| SITE LOCUS | | |
| FORMER CRRA HARTFORD LANDFILL 180 LIEBERT ROAD HARTFORD, CONNECTICUT | | |
| Source: TOPOI maps are USGS topographic maps, Copyright © 2011 National Geographic Society, i-cubed and are provided by arcgisonline.com. | | |
| PROJ MGR: JAK | REVIEWED BY: GTB | PROJECT NO. 05.0045198.01 |
| DESIGNED BY: REK | DRAWN BY: MJS | DATE: 02-03-15 |
| THIS MAP HAS BEEN COMPILED FROM OTHER MAPS AND/OR SOURCES OF INFORMATION. THIS MAP SHOULD NOT BE CONSTRUED AS A PROPERTY SURVEY, NOR USED FOR CONSTRUCTION PURPOSES. | | |
| <p>Scale in Feet</p> | | |

N

FIGURE
1

APPENDIX A

**CTDEEP GENERAL PERMIT FOR THE DISCHARGE OF
STORMWATER ASSOCIATED WITH INDUSTRIAL
ACTIVITY,
(EFFECTIVE OCTOBER 1, 2011, MODIFIED DECEMBER 3, 2013)**

APPENDIX B
GENERAL PERMIT REGISTRATION



Connecticut Department of Energy & Environmental Protection

Bureau of Materials Management & Compliance Assurance
 Water Permitting & Enforcement Division

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

CPPU USE ONLY

App#:

Doc #:

Check #:

Program: Stormwater

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 DEEP website. Please note that DEEP will no longer mail certificates of registration.

Part I: Registration Types and Timelines

Note: All yellow fields are required

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

| Registration Types | |
|-------------------------------------|---|
| <input type="checkbox"/> | <u>New Registration (of an expired permit)</u> Previous Permit No. GSI <input type="text"/> |
| <input checked="" type="checkbox"/> | <p><u>New Registration</u></p> <p>Are you on a site where industrial activity has been previously located? <input type="text" value="Yes or No"/> <input type="text" value="YES"/></p> <p>Are you proposing a new industrial activity on a site where industrial activity has not been previously located? <input type="text" value="Yes or No"/> <input type="text" value="NO"/></p> <p>To determine if you qualify to file this registration please go to Part IV?</p> |
| <input type="checkbox"/> | <u>Replacement of NPDES</u> If selected, please provide in the space provided the permit #'s for previously authorized discharge(s) <input type="text"/> |
| <input type="checkbox"/> | <u>Modification (new or modified discharges)</u> Existing Permit No. GSI <input type="text"/> |

| Registration Timelines | |
|-------------------------------------|---|
| <input type="checkbox"/> | For new registrants, without an electronically available Pollution Prevention Plan: Ninety (90) days prior to the initiation of the industrial activity |
| <input checked="" type="checkbox"/> | 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 DEEP 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: **FEE WILL BE WAIVED**

- 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
- 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 Energy and Environmental Protection.

Part III: Registrant Information

- If a registrant or consultant 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 **exactly** 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: Connecticut Department of Energy and Environmental Protection (CT DEEP)

Registrant Type: State Agency

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

Secretary of the State Business ID #:

Mailing Address: 79 Elm Street

City/Town: Hartford State: CT Zip Code: 06106 5127

Business Phone: (860) 424-3000 Ext.: Fax:

Contact Person: Raymond Frigon Title: Environmental Analyst 3

Email: raymond.frigon@ct.gov

Additional Phone Number (if applicable): (860) 424-3797 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).
(Select 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: Zip Code:

Business Phone: Ext.: Fax: Email:

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

4a.

Same as registrant

Contact Person: Title:

Mailing Address:

City/Town: State: 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: Consultant Type:

Mailing Address:

City/Town: State: Zip Code:

Business Phone: Ext.: Fax: Email:

Contact Person: Title:

Service Provided:

Secretary of the State Business ID #:

Note: All yellow fields are required

Part IV: Site Information

1. Please provide the name of your site and address below:

Site Name: Former CRRA Hartford Landfill

Street Address Location Description: 180 Leibert Road

City/Town: Hartford

State: CT

Zip Code: 06103

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 with your registration.

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 DEEP 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 Polychlorinated biphenyls (PCBs)?

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.

7. **INDIAN LANDS:** Is or will the facility be located on federally recognized Indian lands?

Yes No

Part IV: Site Information (continued)

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

The coastal boundaries 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 DEEP 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:

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

Note: NDDDB review generally takes 4 to 6 weeks and may require additional documentation from the registrant. DEEP strongly recommends that registrants complete this process before submitting the subject registration.

The CT NDDDB response must be submitted with this completed registration as Attachment C. For more information visit the DEEP website at [Natural Diversity Data](#) or call the NDDDB 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 DEEP 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 | |
| 001 | pipe | plastic | 18 | -72.65057 | 41.78844 | CT ECO |
| 002 | pipe | concrete | other (30) | -72.65488 | 41.79248 | CT ECO |
| 002A | pipe | concrete | 15 | -72.65544 | 41.78985 | 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? |
| 001 | NO | |
| 002 | NO | |
| 002A | NO | |
| | | |
| | | |
| Confirm that runoff (to non-fresh tidal wetlands) from 1" of rainfall is NOT retained for any discharges listed above <input type="checkbox"/> YES | | |

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 <u>DEP-PED-INST-14</u> 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? |
| 001 | Wetlands/Waterbody | 4000-00_03 | YES | No |
| 002 | Wetlands/Waterbody | 4000-00_03 | YES | No |
| 002A | Wetlands/Waterbody | 4000-00_03 | 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 <u>EPA Groundwater Class V</u> . | | | | | |
|---|-----------------------------|--|---|----------|--|
| 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: <u>CT ECO</u> . Directions on how to use CT Eco to find Lat/Long are found in Part V, section d of <u>DEP-PED-INST-14</u> . | | e) What method was used to obtain your latitude and longitude information? |
| | | | Longitude | Latitude | |
| | | | | | |
| | | | | | |
| | | | | | |

Note: All yellow fields are required

Part VI: Pollution Prevention Plan Availability

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: RUTH.KENNEDY@GZA.COM

URL: WWW.CT.GOV/DEEP/STORMWATER

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?
Please see directions below regarding withholding information.

Yes No

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.

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

Raymond Frigon

Name of Registrant (print or type)

Environmental Analyst 3

Title (if applicable)



Signature of Preparer (if different than above)

7/24/15

Date

Gordon T. Brookman

Name of Preparer (print or type)

Principal

Title (if applicable)

Note: All yellow fields are required

Part IX: Summary page / Supporting Documentation

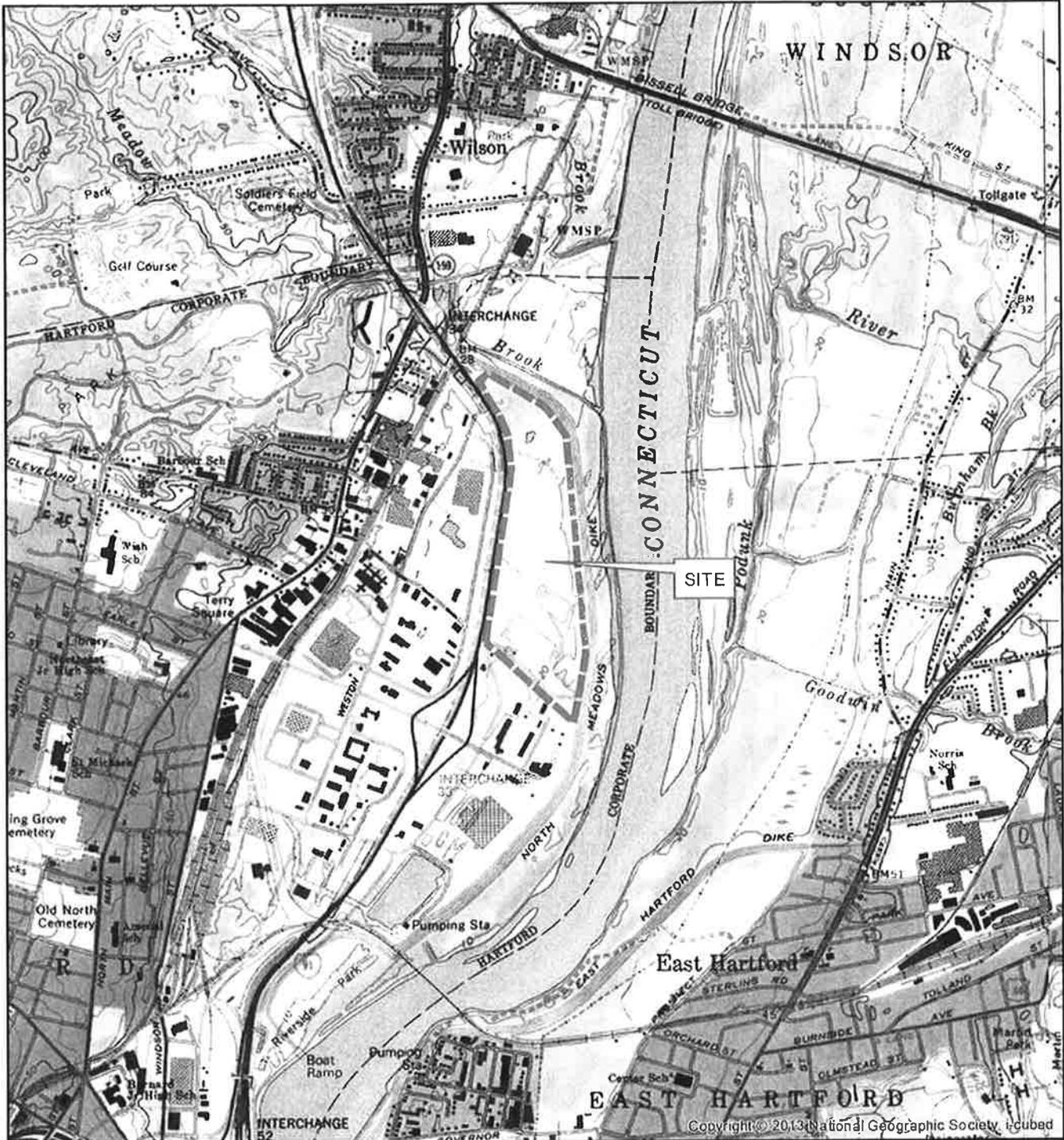
The list below identifies each attachment required to be submitted with this registration form. When submitting any supporting documents, please label the documents as indicated below (e.g., Attachment A, etc.) and be sure to include the registrant's name as indicated on this registration form.

- 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 DEEP 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 be 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 **FEE WILL BE WAIVED**
- 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 ENERGY AND ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127**

ATTACHMENT A



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GZA GeoEnvironmental, Inc.
 Engineers and Scientists
 www.gza.com



USGS 7.5 MINUTE
 QUADRANGLE-BASE MAP
 HARTFORD, CONNECTICUT
 1997

SITE LOCUS

CTDEEP-FORMER CRRRA HARTFORD LANDFILL
 180 LIEBERT ROAD
 HARTFORD, CONNECTICUT

Source: TOPO! maps are USGS topographic maps, Copyright:© 2011 National Geographic Society, i-cubed and are provided by arcgisonline.com.

| | | |
|-----------------|-----------------|--------------------------|
| PROJ MGR JAK | REVIEWED BY GTB | PROJECT NO 05 0045198 01 |
| DESIGNED BY REK | DRAWN BY MJS | DATE: 02-03-15 |

THIS MAP HAS BEEN COMPILED FROM OTHER MAPS AND/OR SOURCES OF INFORMATION.
 THIS MAP SHOULD NOT BE CONSTRUED AS A PROPERTY SURVEY, NOR USED FOR CONSTRUCTION PURPOSES



Scale in Feet



ATTACHMENT

A

ATTACHMENT C



Connecticut Department of
ENERGY & ENVIRONMENTAL
PROTECTION

Bureau of Natural Resources
Wildlife Division
Natural History Survey – Natural Diversity Data Base

February 23, 2015

Ms. Ruth Kennedy
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive, Suite 402
Glastonbury, CT 06033
Ruth.kennedy@gza.com

Regarding: Former CRRA Hartford Landfill, 180 Liebert Road, Hartford, CT – Post-closure care and maintenance of landfill - Natural Diversity Data Base 201500921

Dear Ms. Kennedy:

In response to your request for a Natural Diversity Data Base (NDDB) Review of State Listed Endangered, Threatened, and Special Concern Species for the Former CRRA Hartford Landfill, our records for this site indicate the following extant populations of species on or within the vicinity of the site:

Bald Eagle (*Haliaeetus leucocephalus*) Protection Status: Threatened

Disturbing bald eagles is an illegal activity pursuant to Section 26-93 of the Connecticut General Statutes.

Recommendations: The Department of Energy and Environmental Protection (DEEP) Remediation Division shall meet with the DEEP Wildlife Division to discuss and coordinate modifications to the monitoring schedule and other actions to protect the bald eagles in the area.

The Natural Diversity Data Base includes all information regarding critical biological resources available to us at the time of the request. This information is a compilation of data collected over the years by the Department of Energy and Environmental Protection's Natural History Survey and cooperating units of DEEP, private conservation groups and the scientific community. This information is not necessarily the result of comprehensive or site-specific field investigations. Consultations with the Data Base should not be substituted for on-site surveys required for environmental assessments. Current research projects and new contributors continue to identify additional populations of species and locations of habitats of concern, as well as, enhance existing data. Such new information is incorporated into the Data Base as it becomes available. If the project is not implemented within 12 months, then another Natural Diversity Data Base review should be requested for up-to-date information.

Please be advised a more detailed review may be conducted as part of any subsequent environmental permit applications submitted to the Department of Energy and Environmental

Protection for the proposed site. Should state involvement occur in some other manner, specific restrictions or conditions relating to the species discussed above may apply.

Thank you for consulting the Natural Diversity Data Base. If you have further questions, I can be reached by email at Elaine.hinsch@ct.gov or by phone at (860) 424-3011.

Sincerely,
/s/
Elaine Hinsch
Program Specialist II
Wildlife Division

DEEP Office of Planning and Program Development



**Connecticut Department of
Energy & Environmental Protection**
79 Elm Street
Hartford, CT 06106-5127
www.ct.gov/deep

RUTH E. KENNEDY
GZA GEOENVIRONMENTAL, INC.
655 Winding Brook Dr
Suite 402
Glastonbury, CT 06033-4337

2/09/2015

Dear Applicant:

This letter is to confirm the receipt of the following application package:

Permit Type: NDDB Listed Species Determination
FMR CRRR HARTFORD LANDFILL, 180 LIEBERT RD., HARTFORD

Your application has been assigned the following number: 201500921
Please include this number on all correspondence regarding this application.

As of today, the following materials have been received:

| ITEM | REQUIRED FEE | FEE RECEIVED | RECEIVED ON |
|---------------------|--------------|--------------|-------------|
| Application Package | | | 2/06/2015 |
| Application Fee | 0.00 | | |

If there are any questions regarding this notice, please feel free to contact the Central Permit Processing Unit at (860) 424-4004 or DEEP.CentralPermits@ct.gov

If you have specific technical questions regarding your application, please contact the permit program directly: Natural Diversity Data Base, Wildlife Division (860) 424-3011

As a reminder, depending on the type of permit you are seeking, you may be required to publish notice of your application in accordance with section 22a-6g of the General Statutes and submit a copy of such notice to DEEP. If this is the case, DEEP will not process your application further until we have received the certified copy of such notice.

Please remember to check your security settings to be sure you can receive e-mails from (ct.gov) addresses. Also, please notify the department if your e-mail address changes.

Thank you.

Sincerely,

Central Permit Processing Unit

Ruth Kennedy

From: Ruth Kennedy
Sent: Wednesday, February 04, 2015 12:10 PM
To: 'deep.nddbrequest@ct.gov'
Subject: NDDB Request
Attachments: ATT B DETAILED SITE MAP.pdf; NDDB Request_180 Leibert Rd_2-4-2015.pdf

Good Afternoon-

Attached, please find the NDDB Review Request Form for the Former CRRA Landfill located at **180 Leibert Road** in **Hartford CT**. I have also attached a larger version of the Attachment B site plan for clarity. Please feel free to contact me if you require additional information.

Thank you,
Ruth

Ruth E. Kennedy, CHMM, Environmental Scientist
GZA GeoEnvironmental, Inc.
655 Winding Brook Drive, Suite 402
Glastonbury, CT 06033

o: 860.858.3149 | c: 860.508.7227
ruth.kennedy@gza.com | www.gza.com



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For information about GZA GeoEnvironmental, Inc. and its services, please visit our website at www.gza.com.



Connecticut Department of
 Energy & Environmental Protection
 Bureau of Natural Resources
 Wildlife Division

CPPU USE ONLY

App #: _____

Doc #: _____

Check #: No fee required

Program: Natural Diversity Database
 Endangered Species

Hardcopy _____ Electronic _____

Request for Natural Diversity Data Base (NDDB) State Listed Species Review

Please complete this form in accordance with the [instructions](#) (DEEP-INST-007) to ensure proper handling of your request.

There are no fees associated with NDDB Reviews.

Part I: Preliminary Screening & Request Type

Before submitting this request, you must review the most current Natural Diversity Data Base "State and Federal Listed Species and Significant Natural Communities Maps" found on the [DEEP website](#). These maps are updated twice a year, usually in June and December.

Does your site, including all affected areas, fall in an NDDB Area according to the map instructions:

Yes No Enter the date of the map reviewed for pre-screening: December 2014

This form is being submitted for a :

- New NDDB request
- Renewal/Extension of a NDDB Request, **without modifications and within one year of issued NDDB determination** (no attachments required)

[CPPU Use Only - NDDB-Listed Species Determination # 1736]

- New Safe Harbor Determination (optional) must be associated with an application for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities
- Renewal/Extension of an existing Safe Harbor Determination
 - With modifications
 - Without modifications (no attachments required)

[CPPU Use Only - NDDB-Safe Harbor Determination # 1736]

Enter NDDB Determination Number for Renewal/Extension:

Enter Safe Harbor Determination Number for Renewal/Extension:

Part II: Requester Information

If the requester 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, the name shall be stated **exactly as it is registered with the Secretary of State. Please note, for those entities registered with the Secretary of State, the registered name will be the name used by DEEP. This information can be accessed at the Secretary of the State's database CONCORD. (www.concord-sots.ct.gov/CONCORD/index.jsp)*

If the requester 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.).

If there are any changes or corrections to your company/facility or individual mailing or billing address or contact information, please complete and submit the Request to Change company/Individual Information to the address indicated on the form.

1. Requester*

Company Name: **GZA GeoEnvironmental, Inc.**

Contact Name: **Ruth Kennedy**

Address: **655 Winding Brook Drive, Suite 402**

City/Town: **Glastonbury**

State: **CT**

Zip Code: **06033**

Business Phone: **(860) 286-8900**

ext. **3149**

E-mail: **ruth.kennedy@gza.com

****By providing this email address you are agreeing to receive official correspondence from the department, at this electronic address, concerning this request. Please remember to check your security settings to be sure you can receive emails from "ct.gov" addresses. Also, please notify the department if your e-mail address changes**

a) Requester can best be described as:

Individual Federal Agency State agency Municipality Tribal

business entity (if a business entity complete i through iii):

i) Check type corporation limited liability company limited partnership

limited liability partnership statutory trust Other:

ii) Provide Secretary of the State Business ID #: 0170362 This information can be accessed at the Secretary of the State's database (CONCORD). (www.concord-sots.ct.gov/CONCORD/index.jsp)

iii) Check here if your business is **NOT** registered with the Secretary of State's office.

b) Acting as (Affiliation), pick one:

Property owner Consultant Engineer Facility owner Applicant

Biologist Pesticide Applicator Other representative:

2. List Primary Contact to receive Natural Diversity Data Base correspondence and inquiries, if different from requester.

Company Name:

Contact Person:

Title:

Mailing Address:

City/Town:

State:

Zip Code:

Business Phone:

ext.

**E-mail:

Part III: Site Information

This request can only be completed for one site. A separate request must be filed for each additional site.

1. SITE NAME AND LOCATION
Site Name or Project Name: **Former CRRA Hartford Landfill**
Town(s): **Hartford CT**
Street Address or Location Description:
180 Liebert Road
Size in acres, or site dimensions: **approximately 124 acres**
Latitude and longitude of the center of the site in decimal degrees (e.g., 41.23456 -71.68574):
Latitude: **41.7941** Longitude: **-72.65195**
Method of coordinate determination (check one):
 GPS Photo interpolation using CTECO map viewer Other (specify):
2a. Describe the current land use and land cover of the site.
Closed landfill, grassy vegetation
b. Check all that apply and enter the size in acres or % of area in the space after each checked category.
 Industrial/Commercial _____ Residential _____ Forest 5%
 Wetland 20% Field/grassland 75% Agricultural _____
 Water _____ Utility Right-of-way _____
 Transportation Right-of-way _____ Other (specify): _____

Part IV: Project Information

1. PROJECT TYPE:
Choose Project Type: Other , if other describe: Post-closure care and maintenance of landfill
2. Is the subject activity limited to the maintenance, repair, or improvement of an existing structure within the existing footprint? Yes No If yes, explain.
Post-closure care and maintenance of landfill

Part IV: Project Information (continued)

3. Give a detailed description of the activity which is the subject of this request and describe the methods and equipment that will be used. Include a description of steps that will be taken to minimize impacts to any known listed species.

Post-closure care and maintenance of landfill, specifically stormwater inspections and monitoring under CTDEEP General Permit for the Discharge of Stormwater Associated with Industrial Activities.

Stormwater inspections and monitoring will be conducted as specified in the General Permit and are not expected to have significant impacts.

A previous NDDB request for the project area was submitted to the Department on June 1, 2011 in relation to stormwater permit registration GSI0005000.

This current NDDB request is in relation to a new stormwater registration for the same site, as a result of a change in site registrant/operator.

4. If this is a renewal or extension of an existing Safe Harbor request *with* modifications, explain what about the project has changed.

N/A

5. Provide a contact for questions about the project details if different from Part II primary contact.

Name:

Phone:

E-mail:

Part V: Request Requirements and Associated Application Types

Check *one* box from either Group 1, Group 2 or Group 3, indicating the appropriate category for this request.

| |
|---|
| <p>Group 1. If you check one of these boxes, complete Parts I – VII of this form and submit the required attachments A and B.</p> <p><input type="checkbox"/> Preliminary screening was negative but an NDDB review is still requested</p> <p><input type="checkbox"/> Request regards a municipally regulated or unregulated activity (no state permit/certificate needed)</p> <p><input type="checkbox"/> Request regards a preliminary site assessment or project feasibility study</p> <p><input type="checkbox"/> Request relates to land acquisition or protection</p> <p><input type="checkbox"/> Request is associated with a <i>renewal</i> of an existing permit, with no modifications</p> |
| <p>Group 2. If you check one of these boxes, complete Parts I – VII of this form and submit required attachments A, B, and C.</p> <p><input checked="" type="checkbox"/> Request is associated with a <i>new</i> state or federal permit application</p> <p><input type="checkbox"/> Request is associated with modification of an existing permit</p> <p><input type="checkbox"/> Request is associated with a permit enforcement action</p> <p><input type="checkbox"/> Request regards site management or planning, requiring detailed species recommendations</p> <p><input type="checkbox"/> Request regards a state funded project, state agency activity, or CEPA request</p> |
| <p><input type="checkbox"/> Group 3. If you are requesting a Safe Harbor Determination, complete Parts I-VII and submit required attachments A, B, and D. Safe Harbor determinations can only be requested if you are applying for a GP for the Discharge of Stormwater and Dewatering Wastewaters from Construction Activities</p> |
| <p>If you are filing this request as part of a state or federal permit application(s) enter the application information below.</p> <p>Permitting Agency and Application Name(s): <u>CTDEEP General Permit for the Discharge of Stormwater Associated with Industrial Activities</u></p> <p>State DEEP Application Number(s), if known: _____</p> <p>State DEEP Enforcement Action Number, if known: _____</p> <p>State DEEP Permit Analyst(s)/Engineer(s), if known: _____</p> |
| <p>Is this request related to a previously submitted NDDB request? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, provide the previous NDDB Determination Number(s), if known: <u>number unknown-submitted 6/1/11</u></p> |

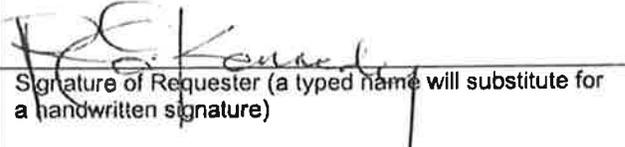
Part VI: Supporting Documents

Check each attachment submitted as verification that *all* applicable attachments have been supplied with this request form. Label each attachment as indicated in this part (e.g., Attachment A, etc.) and be sure to include the requester's name, site name and the date. **Please note that Attachments A and B are required for all new requests and Safe Harbor renewals/extensions with modifications.** Renewals/Extensions with no modifications do not need to submit any attachments. Attachments C and D are supplied at the end of this form.

| | |
|---|---|
| <input checked="" type="checkbox"/> Attachment A: | Overview Map: an 8 1/2" X 11" print/copy of the relevant portion of a USGS Topographic Quadrangle Map clearly indicating the exact location of the site. |
| <input checked="" type="checkbox"/> Attachment B: | Detailed Site Map: fine scaled map showing site boundary and area of work details on aerial imagery with relevant landmarks labeled. (Site and work boundaries in GIS [ESRI ArcView shapefile, in NAD83, State Plane, feet] format can be substituted for detailed maps, see instruction document) |
| <input checked="" type="checkbox"/> Attachment C: | Supplemental Information, Group 2 requirement (attached, DEEP-APP-007C) <input checked="" type="checkbox"/> Section i: Supplemental Site Information and supporting documents <input type="checkbox"/> Section ii: Supplemental Project Information and supporting documents |
| <input type="checkbox"/> Attachment D: | Safe Harbor Report Requirements, Group 3 (attached, DEEP-APP-007D) |

Part VII: Requester Certification

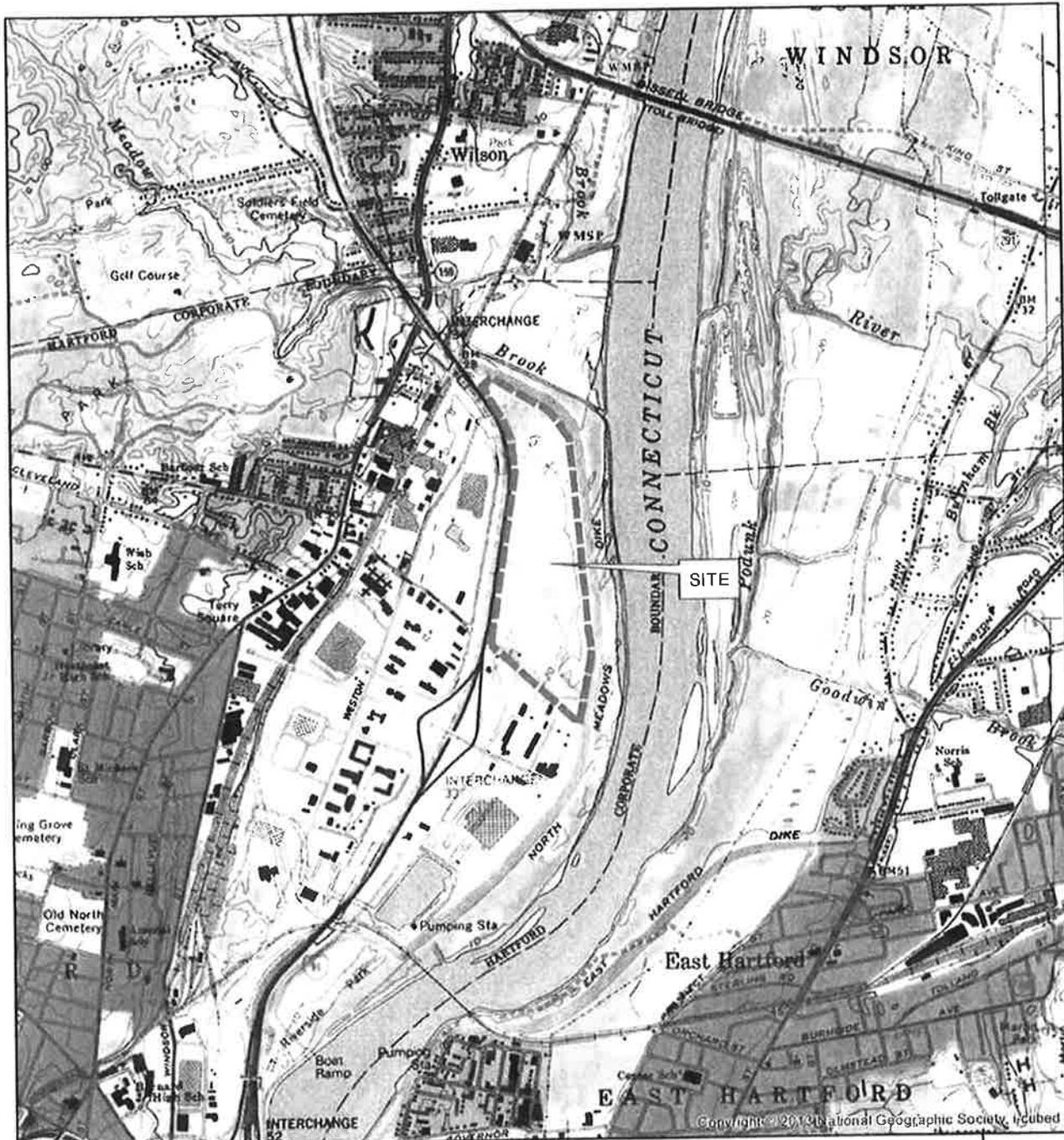
The requester *and* the Individual(s) responsible for actually preparing the request must sign this part. A request will be considered incomplete unless all required signatures are provided.

| | |
|--|---|
| <p>"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 the individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief."</p> | |
|  Signature of Requester (a typed name will substitute for a handwritten signature) | 02/03/2015 Date |
| Ruth E. Kennedy Name of Requester (print or type) | CHMM, GZA Env. Scientist Title (if applicable) |
| Signature of Preparer (if different than above) | Date |
| Name of Preparer (print or type) | Title (if applicable) |

Note: Please submit the completed Request Form and all Supporting Documents to:

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

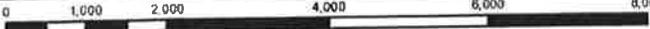
Or email request to: deep.nddbrequest@ct.gov




GZA GeoEnvironmental, Inc.
Engineers and Scientists
www.gza.com



USGS 7.5 MINUTE
QUADRANGLE BASE MAP
HARTFORD, CONNECTICUT
1997

| | | |
|---|-----------------|---------------------------|
| SITE LOCUS | | |
| FORMER CRRA HARTFORD LANDFILL 180 LIEBERT ROAD HARTFORD, CONNECTICUT | | |
| Source: TOPOI maps are USGS topographic maps. Copyright © 2011 National Geographic Society. i-cubed and are provided by argisonline.com. | | |
| PROJ MGR JAK | REVIEWED BY GTB | PROJECT NO. 05 0045198 01 |
| DESIGNED BY REK | DRAWN BY MJS | DATE 02-03-15 |
| THIS MAP HAS BEEN COMPILED FROM OTHER MAPS AND/OR SOURCES OF INFORMATION THIS MAP SHOULD NOT BE CONSTRUED AS A PROPERTY SURVEY, NOR USED FOR CONSTRUCTION PURPOSES | | |
|  <p>Scale in Feet</p> | | |



ATTACHMENT
A

Attachment C: Supplemental Information, Group 2 requirement

Section i: Supplemental Site Information

1. Existing Conditions

Describe all natural and man-made features including wetlands, watercourses, fish and wildlife habitat, floodplains and any existing structures potentially affected by the subject activity. Such features should be depicted and labeled on the site plan that must be submitted. Photographs of current site conditions may be helpful to reviewers.

The largest portion (approximately 80 acres) of the Site consists of the MSW/Interim Ash Area, which was historically used from circa 1988 through 2008 for the landfilling of non-processible and bulky waste, and from circa 1988 through early 1998, to dispose of ash residue from a waste-to-energy facility. Closure of the MSW/Interim Ash Area was completed circa 2010.

The area located immediately north and adjacent to the MSW/Interim Ash Area, known as the Phase I Lined Ash Area, consists of approximately 18 acres that began receiving ash residue in 1998. It features four cells that are double-lined with HDPE membrane. Closure of the Phase I Lined Ash Area was completed in 2009.

Adjacent wetlands and watercourses are shown on the attached site plan (Attachment B).

Stormwater monitoring at the Site is not expected to affect existing structures or features at the Site.

- Site Photographs (optional) attached
 Site Plan/sketch of existing conditions attached

2. Biological Surveys

Has a biologist visited the site and conducted a biological survey to determine the presence of any endangered, threatened or special concern species Yes No

If yes, complete the following questions and submit any reports of biological surveys, documentation of the biologist's qualifications, and any NDDB survey forms.

Biologist(s) name: _____

Habitat and/or species targeted by survey: _____

Dates when surveys were conducted: _____

- Reports of biological surveys attached
 Documentation of biologist's qualifications attached
 NDDB Survey forms for any listed species observations attached

Section ii: Supplemental Project Information

1. Provide a schedule for all phases of the project including the year, the month and/or season that the proposed activity will be initiated and the duration of the activity.

Stormwater monitoring/inspections will be conducted on a monthly, quarterly, semi-annual and annual basis as applicable until the end of the permit term (current permit term expires October 2016).

2. Describe and quantify the proposed changes to existing conditions and describe any on-site or off-site impacts. In addition, provide an annotated site plan detailing the areas of impact and proposed changes to existing conditions.

The proposed activities (stormwater inspections/monitoring) are not expected to significantly change onsite conditions or impact onsite or offsite conditions.

Annotated Site Plan attached

APPENDIX C

**STORMWATER MONITORING REPORT (SMR) FORM FOR SECTOR C
FACILITIES AND STORMWATER MONITORING RESULTS**



**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Stormwater Monitoring Report Form
Sector C – Refuse Systems**

Facility Information

Permittee Name: _____ Site Name: _____
 Mailing Address: _____
 Contact Person: _____ Title: _____
 Business Phone: _____ ext.: _____ Email: _____
 Site Address: _____
 Receiving Water (name/basin): _____
 Permit #: GSI _____ Primary SIC: _____
 Discharges into an Impaired Waterbody: Yes No (If yes, complete the table on page 3 of this form)

Sample Information

Sample Location: _____ Person Collecting Sample: _____
 Date/Time Collected: _____ Date of Previous Storm Event: _____
 This report is for samples required: Semi-annually Annually Other
 Check here if the sample contains **snow or ice melt**:
 Check here if a benchmark exceedance is solely due to background or off site sources see note below

Monitoring Results

| *Parameter | Required Frequency | Results (units) | Benchmark | Effluent Limit | Benchmark Exceedance (see pg 4) | Test Method | Laboratory Name |
|-------------------------|--------------------|-----------------|------------|----------------|---------------------------------|-------------|-----------------|
| Oil & Grease | Semi-annual | | 5.0 mg/L | n/a | <input type="checkbox"/> | | |
| Rainfall pH | Semi-annual | | n/a | n/a | <input type="checkbox"/> | | |
| Sample pH | Semi-annual | | 5-9 SU | * | | | |
| COD | Semi-annual | | 75 mg/L | n/a | <input type="checkbox"/> | | |
| TSS | Semi-annual | | 90 mg/L | * | <input type="checkbox"/> | | |
| TP | Semi-annual | | 0.40 mg/L | n/a | <input type="checkbox"/> | | |
| TKN | Semi-annual | | 2.30 mg/L | n/a | <input type="checkbox"/> | | |
| NO ₃ -N | Semi-annual | | 1.10 mg/L | n/a | <input type="checkbox"/> | | |
| Total Copper | Semi-annual | | 0.059 mg/L | n/a | <input type="checkbox"/> | | |
| Total Zinc | Semi-annual | | 0.160 mg/L | * | <input type="checkbox"/> | | |
| Total Lead | Semi-annual | | 0.076 mg/L | n/a | <input type="checkbox"/> | | |
| 24 Hr. LC ₅₀ | Annual-Year 1&2 | | n/a | n/a | | | |
| 48 Hr. LC ₅₀ | Annual-Year 1&2 | | n/a | n/a | | | |

* See Additional Sector C Monitoring Section on page 3 of this form.

Exemptions

List here any parameter(s) that will not be sampled for the remainder of the permit term: see note below

NOTE: Complete the "Data Tracking Table" (page 4 on this form) to show the parameter is eligible for the monitoring exemption in Section 5(e)(1)(B)(iii) of the general permit. If you are discontinuing monitoring for impaired water parameters (per Section 5(e)(1)(D)), or parameters that are present due to natural or background levels or off site run-on (per Section 5(e)(1)(B)(V)), attach additional supporting information to this form.

STORMWATER ACUTE TOXICITY TEST DATA SHEET
 (required annually only during Year 1 and Year 2 of the permit)

| | |
|---|--------------------------|
| Site Name: | |
| Date/Time Begin: | Date/Time End: |
| Sample Hardness: | Sample Conductivity: |
| Test Species: <i>Daphnia pulex</i> < 24 hrs old | Dilution Water Hardness: |

| Effluent Dilution | Number of Organisms Surviving | | | Dissolved Oxygen (mg/L) | | | Temperature (°C) | | | pH (su) | | | |
|-------------------|-------------------------------|----|----|-------------------------|----|----|------------------|----|----|---------|----|----|----|
| | Hour | 00 | 24 | 48 | 00 | 24 | 48 | 00 | 24 | 48 | 00 | 24 | 48 |
| CONTROL 1 | | | | | | | | | | | | | |
| CONTROL 2 | | | | | | | | | | | | | |
| CONTROL 3 | | | | | | | | | | | | | |
| CONTROL 4 | | | | | | | | | | | | | |
| 6.25% A | | | | | | | | | | | | | |
| 6.25% B | | | | | | | | | | | | | |
| 6.25% C | | | | | | | | | | | | | |
| 6.25% D | | | | | | | | | | | | | |
| 12.5% A | | | | | | | | | | | | | |
| 12.5% B | | | | | | | | | | | | | |
| 12.5% C | | | | | | | | | | | | | |
| 12.5% D | | | | | | | | | | | | | |
| 25% A | | | | | | | | | | | | | |
| 25% B | | | | | | | | | | | | | |
| 25% C | | | | | | | | | | | | | |
| 25% D | | | | | | | | | | | | | |
| 50% A | | | | | | | | | | | | | |
| 50% B | | | | | | | | | | | | | |
| 50% C | | | | | | | | | | | | | |
| 50% D | | | | | | | | | | | | | |
| 100% A | | | | | | | | | | | | | |
| 100% B | | | | | | | | | | | | | |
| 100% C | | | | | | | | | | | | | |
| 100% D | | | | | | | | | | | | | |

REFERENCE TOXICANT RESULTS

| Test Species | Date | Reference Toxicant | Source | LC ₅₀ |
|----------------------|------|--------------------|--------|------------------|
| <i>Daphnia pulex</i> | | | | |

Additional Monitoring: Sector C – Landfills and Solid Waste Disposal Areas Only

| Parameter | Required Frequency | Results (Units) | Benchmark | Effluent Limit | Benchmark Exceedance (see pg 4) | Test Method | Laboratory Name |
|--------------------------|-------------------------------------|-----------------|-----------|----------------|---------------------------------|-------------|-----------------|
| Total Iron | Quarterly | | 1 mg/L | n/a | <input type="checkbox"/> | | |
| Effluent Samples* | | | | | | | |
| BOD | Annually for the entire permit term | | n/a | 140 mg/L | <input type="checkbox"/> | | |
| TSS | Annually for the entire permit term | | n/a | 88 mg/L | <input type="checkbox"/> | | |
| Ammonia | Annually for the entire permit term | | n/a | 10 mg/L | <input type="checkbox"/> | | |
| Alpha Terpineol | Annually for the entire permit term | | n/a | 0.033 mg/L | <input type="checkbox"/> | | |
| Benzoic Acid | Annually for the entire permit term | | n/a | 0.12 mg/L | <input type="checkbox"/> | | |
| p-Cresol | Annually for the entire permit term | | n/a | 0.025 mg/L | <input type="checkbox"/> | | |
| Phenol | Annually for the entire permit term | | n/a | 0.026 mg/L | <input type="checkbox"/> | | |
| Total Zinc | Annually for the entire permit term | | n/a | 0.200 mg/L | <input type="checkbox"/> | | |
| Sample pH | Annually for the entire permit term | | n/a | 6-9 mg/L | <input type="checkbox"/> | | |

*Annual samples may be taken at the same time as one of the semi-annual samples for the general sampling parameters. An effluent limit applies to any single sample (not average of 4).

Additional Monitoring for Discharges to Impaired Waters (if applicable)

| Parameter | Required Frequency | Results (units) | Test Method | Laboratory Name |
|-----------|--------------------|-----------------|-------------|-----------------|
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Statement of 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 the 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 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."

Signature of Permittee

Date

Name of Permittee (print or type)

Title (if applicable)

Signature of Preparer (if different than above)

Date

Name of Preparer (print or type)

Title (if applicable)

Please send all completed forms to:

WATER TOXICS PROGRAM COORDINATOR
BUREAU OF WATER PROTECTION AND LAND REUSE
CT DEPARTMENT OF ENERGY & ENVIRONMENTAL PROTECTION
79 ELM STREET
HARTFORD, CT 06106-5127

**General Permit for the Discharge of Stormwater Associated with
Industrial Activity, effective 10/1/2011
Data Tracking Sheet
Sector C –Refuse Systems**

| | |
|------------------------|---------------------|
| Permittee Name: _____ | Permit #: GSI _____ |
| Site Name: _____ | |
| Site Address: _____ | |
| Sample Location: _____ | |

Enter the sample dates and the data reported for the four (4) most recent semi-annual or quarterly monitoring sample results at this discharge location in the chart below. To determine the average for the four samples add up each of the four results and then divide that number by 4. **Only monitoring collected under the current permit (effective 10/1/11,) can be used to earn the monitoring exemption.**

$$\text{Average} = \frac{(\text{Sample 1} + \text{Sample 2} + \text{Sample 3} + \text{Sample 4})}{4}$$

| Parameter | Sample Result | | | | Average | Benchmark** | Qualify for exemption? |
|--------------------|---------------|---|---|---|---------|-------------|------------------------|
| | 1 | 2 | 3 | 4 | | | |
| Sample Date | | | | | | | |
| O&G | | | | | | 5.0 mg/L | |
| Sample pH* | | | | | | 5-9 S.U. | |
| COD | | | | | | 75 mg/L | |
| TSS* | | | | | | 90 mg/L | |
| TP | | | | | | 0.4 mg/L | |
| TKN | | | | | | 2.30 mg/L | |
| NO ₃ -N | | | | | | 1.10 mg/L | |
| Total Copper | | | | | | 0.059 mg/L | |
| Total Zinc* | | | | | | 0.16 mg/L | |
| Total Lead | | | | | | 0.076 mg/L | |
| Total Iron | | | | | | 1.0 mg/L | |

**If the average of the four (4) most recent samples is less than the benchmark listed, your facility is no longer required to sample semi-annually or quarterly for that parameter for the rest of the permit (current permit expires 9/30/2016).

If the average of the four (4) most recent samples is equal to or greater than the benchmark listed, check the appropriate box on page 1. If so, you have exceeded the benchmark and must continue to sample this parameter semiannually until the average is below the benchmark. See Section 5(e)(1)(B) of the General permit for requirements when exceeding a benchmark.

If the sample result reported by the testing laboratory was below detection limit, for the purpose of averaging, use a value that is ½ the detection limit for that parameter in the formula above. For example, if the result for Oil & Grease was <2.0 mg/L, use a value of 1.0 mg/L for determining the average. Please refer to Section 5 e(1)B(iii) for a more detailed explanation.

*Due to effluent limits, landfills and solid waste disposal areas within Sector C are required to monitor annually for nine parameters including sample pH, TSS and Zinc for the entire permit term. The pH of uncontaminated rainfall is also recommended to provide background information. See additional monitoring for landfills and solid waste disposal areas within Sector C on page 2 of this form for this list of parameters.

APPENDIX D
SEMI-ANNUAL COMPREHENSIVE SITE INSPECTION CHECKLIST

APPENDIX D
HARTFORD LANDFILL

Stormwater Semi-annual Comprehensive Site Inspection

Inspector(s): _____

Date of Inspection: _____

Review the attached checklist. Use it to update the site map, potential pollutants list and maintenance practices as necessary. Note changes here and on the Plan.

Update the pollution prevention team if necessary.

Updated? Yes _____ No _____ Not Necessary _____

Review the SWPPP. Are there any other areas which need to be updated? Yes ____ No _____
If so, note them here and on the Plan.

Additional comments:

**APPENDIX D (cont.)
HARTFORD LANDFILL
Semi-annual Comprehensive Site Inspection**

| Area Checked | Inspection Loci/Condition | Checked for... | Conditions Acceptable? | | Describe Any Problems and Corrective Actions |
|--|--|--|------------------------|----|--|
| | | | Yes | No | |
| Unloading Areas (City of Hartford Transfer Station) | Debris at resident bulky waste and recyclables drop off areas | Spill prevention practices and leakproof/covered trailers | | | |
| ASTs | 700-gallon heating oil tank, 330-gallon generator tank | Spillage, leaks of double wall tanks | | | |
| Drainage Structures (catch basins, outfalls) | Sediment pond (N side) Concrete ditch (E-side) Rip rap swale (W-side) CB & pipe system (S-side) | Well maintained and clear, no oil sheen or scum visible, no excessive sediment build-up. | | | |
| Site Erosion | Access roads and landfill side slopes | Adequate roadway tracking service, evidence of soil erosion, gullies and toe of slope erosion control. | | | |
| Material Storage Areas | Former Vehicle Maintenance Facility GFCS Building Leachate Pre-Treatment Building | Spill cleanup materials, good housekeeping, daily inspections | | | |
| Closed/Inactive Landfill Cells | Lined Ash Area Non-Processible Disposal Area | Maintenance of cover systems; direction of stormwater from covered, inactive areas to exterior stormwater management system. | | | |
| Other Comments: _____ | | | | | |
| Name of Inspector(s) and Organization(s): _____ Date: _____ | | | | | |
| Signature(s) of Inspector(s): _____ Date: _____ | | | | | |
| Name and Title of CRRRA Authorized Official: _____ Date: _____ | | | | | |
| Signature of CRRRA Authorized Official: _____ Date: _____ | | | | | |

APPENDIX E

**DAILY/MONTHLY
STORMWATER POLLUTION PREVENTION
INSPECTION CHECKLISTS**

QUARTERLY VISUAL MONITORING FORMS

MONTHLY STORMWATER POLLUTION PREVENTION INSPECTION FORM

HARTFORD LANDFILL

Inspection Date: _____
 Inspector (Print Full Name): _____

Time: _____
 Title: _____

Weather Conditions: _____

| Area Inspected | YES | NO | If No, Describe Conditions | Follow Up Actions | Date Completed |
|--|-----|----|----------------------------|-------------------|----------------|
| Are the SWPPP Pollution Prevention Team Members the same? | | | | | |
| Are Transfer Station bulky waste/recyclables unloading areas (including used oil collection shed) clean and free of debris and evidence of spills and leaks? | | | | | |
| Are facility parking areas clean and free of evidence of spills or leaks? | | | | | |
| Are the heating oil AST and Generator AST areas clean and free of evidence of spills or leaks? | | | | | |
| Is the Leachate Storage Tank containment area free of evidence of spills/leaks, excessive sediment, cracks or wear? | | | | | |
| Are stormwater structures free of debris and excessive sediment? | | | | | |
| <ul style="list-style-type: none"> • Stormwater Catch Basins (9), located in paved driveway areas in southern portion of Site | | | | | |
| <ul style="list-style-type: none"> • Outfall 001 | | | | | |
| <ul style="list-style-type: none"> • Outfall 002 | | | | | |
| <ul style="list-style-type: none"> • Outfall 002A | | | | | |
| Are spill response materials fully stocked and in their proper locations? | | | | | |
| <ul style="list-style-type: none"> • Pretreatment Building | | | | | |
| <ul style="list-style-type: none"> • Former Wheel Wash building | | | | | |
| <ul style="list-style-type: none"> • Used Oil collection shed | | | | | |

Maintain copies of completed routine monthly inspection forms with the SWPPP.

QUARTERLY VISUAL MONITORING FORM

Hartford Landfill

Date: _____

Outfall Identification: Outfall 001

Name of Person Conducting Visual Monitoring: _____

Instructions: Collect sample in a clean, clear glass or plastic container and examine in a well-lit area.

Describe the following sample characteristics:

COLOR: _____

ODOR: _____

CLARITY: _____

FLOATING SOLIDS: _____

SETTLED SOLIDS: _____

SUSPENDED SOLIDS: _____

FOAM: _____

OIL SHEEN: _____

OTHER OBVIOUS INDICATORS OF STORMWATER POLLUTION: _____

If, based on the above indicators, the visual assessment indicates the control measures for the Facility are inadequate or are not being properly operated and maintained, the Facility must 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.

Maintain copies of completed quarterly visual monitoring forms with the SWPPP.

QUARTERLY VISUAL MONITORING FORM

Hartford Landfill

Date: _____

Outfall Identification: Outfall 002

Name of Person Conducting Visual Monitoring: _____

Instructions: Collect sample in a clean, clear glass or plastic container and examine in a well-lit area.

Describe the following sample characteristics:

COLOR: _____

ODOR: _____

CLARITY: _____

FLOATING SOLIDS: _____

SETTLED SOLIDS: _____

SUSPENDED SOLIDS: _____

FOAM: _____

OIL SHEEN: _____

OTHER OBVIOUS INDICATORS OF STORMWATER POLLUTION: _____

If, based on the above indicators, the visual assessment indicates the control measures for the Facility are inadequate or are not being properly operated and maintained, the Facility must 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.

Maintain copies of completed quarterly visual monitoring forms with the SWPPP.

QUARTERLY VISUAL MONITORING FORM

Hartford Landfill

Date: _____

Outfall Identification: Outfall 002A

Name of Person Conducting Visual Monitoring: _____

Instructions: Collect sample in a clean, clear glass or plastic container and examine in a well-lit area.

Describe the following sample characteristics:

COLOR: _____

ODOR: _____

CLARITY: _____

FLOATING SOLIDS: _____

SETTLED SOLIDS: _____

SUSPENDED SOLIDS: _____

FOAM: _____

OIL SHEEN: _____

OTHER OBVIOUS INDICATORS OF STORMWATER POLLUTION: _____

If, based on the above indicators, the visual assessment indicates the control measures for the Facility are inadequate or are not being properly operated and maintained, the Facility must 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.

Maintain copies of completed quarterly visual monitoring forms with the SWPPP.

APPENDIX F

ANNUAL TRAINING SIGN-OFF SHEET

DEEP STORMWATER SECTOR C TRAINING SIGN-IN SHEET

Project:
Former
CRRA
Landfill

Date:
January 15,
2015

Trainer: Donna Seresin, SE3

Place/Room:
Room 2B

| Name | Title | Company | Phone | Fax | E-Mail |
|------------------|----------------|----------------------|--------------|-----|--------------------------------|
| Kevin Bogue | P.M. | FSS | 203-281-1281 | | KBogue.FSS@SNET.NET |
| Gerald Crespo | Engr. Mgr | GES | 603-540-5000 | | gcrespo@gesonline.com |
| Wes Coster | Technician | GES | 203-282-4520 | | Wcoster@GESONLINE.COM |
| Jason Kreckle | PM | GZA | 800-758-3152 | | Jason.Kreckle@GZA.COM |
| Jill Lane | PM | GES | 800-220-0119 | | jlane@gesonline.com |
| Hannah Palko | Env. Scientist | GES | 800-220-6119 | | hpalko@gesonline.com |
| Michelle Kennedy | Env. Scientist | GZA | 800-758-3152 | | michelle.kennedy@gza.com |
| Mike Mirebio | Env. Scientist | GZA | 800-758-3152 | | mike.mirebio@gza.com |
| Grant Lee | | | | | |
| Carlo Sylvester | Principal | Blue River Engineers | 860-467-4679 | | Carlo@blue-river-engineers.com |
| Donna Bender | Tech | Sovereign Consulting | 203-828-1640 | | dbender@sovercon.com |
| Rich Bender | Tech | Socon | " " | | rbender@sovercon.com |
| Ray Frigon | EA | DEEP | 860-424-3797 | | Raymond.Frigon@ct.gov |
| Scott Burns | Subproject Mgr | Sovereign Consulting | 203-828-1640 | | sburns@sovercon.com |
| James Robinson | Sub-PM | Sovereign | " " | | JRobinson@sovercon.com |
| Robert Colburn | SIL TECH | Socon | " " | | Rcolburn@sovercon.com |
| | | | | | |
| | | | | | |

Connecticut Department of

ENERGY &
ENVIRONMENTAL
PROTECTION



DEEP STORMWATER

presents

Certificate of Completion

Ray Frigon
to
for

Former CRRRA Landfill Stormwater Training

DONNA SERESIN, TRAINING COORDINATOR

January 15, 2015



DEEP STORMWATER

presents

Certificate of Completion

Jason Krechko

for

Former CRRRA Landfill Stormwater Training

A handwritten signature in cursive script, reading "Donna Seresin".

DONNA SERESIN, TRAINING COORDINATOR

January 15, 2015

Connecticut Department of



ENERGY &
ENVIRONMENTAL
PROTECTION

DEEP STORMWATER

presents

Certificate of Completion

to
Ruth Kennedy

for

Former CRRRA Landfill Stormwater Training

DONNA SERESIN, TRAINING COORDINATOR

January 15, 2015

APPENDIX G
SPILL SUMMARY



**Connecticut Department of Energy and Environmental Protection
Emergency Response and Spill Prevention Division
Emergency Incident Report**

Case No.: 2015-01026

Staff Receiving Call: 205 COX, MICHAEL

Assigned To: 929 SHULER, ROBERT

Date Reported: 03/11/2015

Time Reported: 14:14

Date of Release: 03/11/2015

Time of Release: UNKNOWN

Town of Release: HARTFORD

State of Release: CT

Location of Reported Release: 180 LEIBERT ROAD CRRA LANDFILL

Reported By: DONNA SERESIN

Phone: (203) 988-8169

Ext:

Representing: DEEP WATER PERMITTING

Responsible Party:

Phone:

Street Address:

Town:

State:

Zip Code:

Does the Responsible Party Accept Financial Responsibility?

Release Type: PETROLEUM

Release Substance: hydraulic oil

Media: GROUND SURFACE

Total Quantity: 0 Gallons 0 Cubic Yards 0 Cubic Feet 0 Drums 0 Pounds

Emergency Measures: unknown amount leaking from heavy equipment

Has the Release Been Terminated?: NO

Type of Waterbody Affected: CATCH BASIN

Name of Waterbody Affected:

Total Quantity Recovered: 0

Total Quantity in Water: 0

Corrective Actions Taken:

Discharge Class: GOVERNMENTAL

Cause of Incident: LEAKING EQUIPMENT

Agencies Notified:

Status: OPEN

79 Elm Street, Hartford, CT 06106-5127

www.ct.gov/deep

Affirmative Action/Equal Opportunity Employer

APPENDIX H
SPILL RESPONSE PROCEDURES

SPILL RESPONSE PROCEDURES

SPILL RESPONSE CONTACT INFORMATION

Emergency Numbers:

| | |
|---|------------------------------|
| General Emergency (Fire/Police/Ambulance) | 911 |
| City of Hartford Police Department | 911 or (860) 757-4000 |
| City of Hartford Fire Department | 911 or (860) 757-4500 |

Facility Personnel:

Emergency Contacts

| | | |
|------------|-----------------------------------|--|
| Primary: | Ray Frigon CTDEEP | (860) 424-3797 (office) |
| Alternate: | Jason Krechko SWPP Team Member | (860) 858-3152 (office) (860) 965-1105 (cell) |

Waste Clean Up Contractor:

| | |
|-----------------------------------|---------------------------------|
| Environmental Services Inc. (ESI) | 1-800-486-7745 (24-hour) |
|-----------------------------------|---------------------------------|

Government Agencies:

| | |
|---|--|
| CTDEEP Oil and Chemical Spills Unit | (860) 424-3338 (866) 337-7745 (Toll-free) |
| CT State Emergency Response Commission (SERC) | (860) 424-3373 |
| USEPA/US Coast Guard National Response Center (NRC) | (800) 424-8802 |
| City of Hartford Fire Marshal | (860) 757-4530 |
| City of Hartford Health Department Environmental Health Division | (860) 757-4760 |

SPILL RESPONSE PROCEDURES

Spill Response Procedures

Anyone who discovers a spill shall immediately notify the Primary Emergency Contact (EC) or an alternate. A list of Emergency Contacts and their contact information is provided at the beginning of this Spill Response Procedures document.

The EC responding to the notification will manage the situation. If needed, the EC will bring in outside resources to contain and clean up a spill and decontaminate the area of the spill. A list of emergency resources and their contact information is provided at the beginning of this Spill Response Procedures document.

Chain Of Command

The EC makes all decisions on internal and external notifications, methods of cleanup, and decontamination. The EC has the authority to commit all Facility resources needed to carry out the measures provided in this Plan. In case of an event that requires outside emergency services, the EC coordinates the activities between Facility personnel and the outside emergency services.

Duties of Emergency Coordinator

The EC takes all reasonable steps necessary to preserve life, property, and the environment. The following is a list of actions the EC takes in the event of a spill:

1. The EC determines if an emergency situation exists (i.e., a spill which cannot be contained, ignition of spill, personal injury); if so, the EC contacts the following (voice mail messages are not considered "contact"):
 - Fire Department
 - Police Department
 - CTDEEP Oil/Chemical Spills Unit
 - Spill Response Contractor (if appropriate)
 - EPA National Response Center (if appropriate).

The contact information is provided at the beginning of this document.
2. The EC determines if the spill has been contained and how this was accomplished.
3. The EC documents the initial spill response by recording:
 - The spill start time
 - Spill stop time
 - Specific material involved, if known
 - Who was contacted and when
 - Immediate measures taken to contain the spill.
4. The EC immediately reports the spill to the proper state and federal regulatory authorities.
5. The EC will contact an outside spill response contractor (if necessary), and direct the spill response and cleanup.
6. If directed to do so by CTDEEP, the EC will prepare a written report on the spill for submittal to the CTDEEP within 24 hours of the spill.

SPILL RESPONSE PROCEDURES

7. The EC will investigate the cause of the spill after it has been cleaned up and make recommendations for future prevention.

Reporting Requirements

Both EPA and CTDEEP regulations require that a spill must be reported to either or both agencies.

CTDEEP Reporting Requirements for Oil Spills

Per Chapter 446k, Section 22a-450 of the Connecticut General Statutes, a report to the CTDEEP is required for any spill or release that "poses a potential threat to human health or the environment." However, it is current CTDEEP policy that any spill of an oil or petroleum product be reported, regardless of size. Such spills or releases include not only oil but any spill or release that causes an oily sheen to reach the environment.

The EC will report any spill immediately by telephone (860-424-3338) to the CTDEEP Oil and Chemical Spill Response Division using the following format:

"Hartford Landfill is reporting a spill. The spill is approximately **X** gallons of oil".

The message will continue to say one of the following:

1. "We have contained the entire spill on land with booms and/or absorbent material and are cleaning it up." *or*
2. "The spill has been contained within a bermed/contained area and we are cleaning it up." *or*
3. "We were not able to contain the entire spill and approximately **Z** gallons of the oil has reached (as applicable: a storm drain, drainage swale, wetlands, North meadows Pond and/or the Connecticut River)" *or*
4. "The spill is continuing, and we are working to stop it."

The caller must leave a callback phone number with the CTDEEP. The CTDEEP's Oil and Chemical Spill Response Division will usually advise as to the next step.

In addition, the CTDEEP *may* request that a written report be submitted within 24 hours of the spill. If directed to do so by the CTDEEP, the EC will complete a written report and mail it to:

CTDEEP
Bureau of Materials Management and Compliance Assurance
Emergency Response and Spill Prevention
79 Elm Street
Hartford, Connecticut 06106-5127.

A copy of the report should be maintained on file at the Facility for a period of at least three (3) years.

SPILL RESPONSE PROCEDURES

Federal Reporting Requirements for Oil Spills

In the event of any spill that causes a visible sheen on nearby waters, the EC will report the spill to the National Response Center (see the beginning of this document for the telephone number) using the same format as in Subsection 5.4.1:

In addition, in the event of the following spill events, the EC will also submit a written report similar to the one in Subsection 5.4.1 to the Environmental Protection Agency within sixty (60) days.

- A spill of 1,000 gallons or more that reaches nearby waters; or
- Two spills of 42 gallons or more within 12 months that reach nearby waters.

The report should be sent to the following address:

Oil Spills/SPCC Enforcement
EPA New England, Region 1
5 Post Office Square- Suite 100
Boston, MA 02109-3912

Spill Response Equipment

Spill clean-up materials are stored onsite in the former Wheel Wash building, in the Leachate Pretreatment Building, and at the Used Oil collection shed and include:

- Absorbent pads and booms;
- Loose absorbent materials (SpeediDri);
- Gloves;
- Shovel;
- Disposal bags; and
- Overpack drum.

Facility personnel inspect spill response materials at least monthly to ensure that adequate supplies are in stock and that the supplies are in good condition.

Spill Response/Clean-up Contractors

If the EC determines that outside assistance is needed, emergency response/clean-up contractors are available to assist the Facility. Contact information for the emergency response contractors is provided at the beginning of this Spill Response Procedures document.

CTDEEP SPILL REPORTING FORM



STATE OF CONNECTICUT
DEPARTMENT OF ENERGY AND
ENVIRONMENTAL PROTECTION
79 Elm Street
Hartford, Connecticut 06106-5127

Bureau of Waste Management
Oil and Chemical Spill Response Division

**REPORT OF PETROLEUM OR CHEMICAL PRODUCT DISCHARGE, SPILLAGE OR
RELEASE**

1. When did the incident occur? date ____/____/____ time ____:____
month / day / year

2. Where did the incident occur? _____

3. How did the incident occur? (Describe the cause) _____

4. Under whose control was the chemical or petroleum product at the time of the incident?

Name: _____

Mailing Address and Street: _____

Town: _____ State: _____ Zip Code: _____ Telephone: _____

5. Who is the owner of the property onto which the spill occurred?

Is this a corporate property or property owned jointly who represents the owner?

Corporate Property

Property Owned Jointly

Name: _____

Mailing Address and Street: _____

Town: _____ State: _____ Zip Code: _____ Telephone: _____

6. When was the incident verbally reported to the Department of Environmental Protection?

Date ____/____/____ time ____:____

month / day / year

11. What actions are being taken to prevent reoccurrence of an incident of this type? (Attach additional sheets if necessary.)

12. Were there any injuries as a result of the incident? If so, list the names of exposed individuals, their addresses, telephone numbers and describe their injuries. (Attach additional sheets if necessary.)

Name: _____

Mailing Address and Street: _____

Town: _____ State: ___ Zip Code: _____ Telephone: _____

13. What is the appropriate advice regarding medical attention necessary for exposed individuals?

14. Are there any known or anticipated health risks, acute or chronic, associated with the release of this chemical or medical advice that should be communicated?

15. Was the incident completely cleaned up by the time this report was submitted? If not, what are the anticipated remedial actions and their duration?

16. CERTIFICATION. I hereby affirm that the foregoing statement is true to the best of my knowledge.

| | | |
|-----------|-------|------|
| Signature | Title | Date |
|-----------|-------|------|

| | |
|------------|-----------|
| Print Name | Telephone |
|------------|-----------|

| | | | |
|-------------------------|-----------|-------|----------|
| Street Address/P.O. Box | City/Town | State | Zip Code |
|-------------------------|-----------|-------|----------|

This form may be reproduced or computerized as long as it contains all of the information requested and is on an 8½" x 11" white paper, black type format. For serious incidents the questions may be answered in a narrative format which must include the preparer's affidavit.

MAIL TO: State of Connecticut
Department of Energy and Environmental Protection
Bureau of Waste Management
Oil and Chemical Spill Response Division
79 Elm Street
Hartford, Connecticut 06106-5127
(860) 424-3338 *emergency*
