

**STORMWATER POLLUTION PREVENTION PLAN
(SWPPP)
for
SITE CONSTRUCTION ACTIVITIES
at
555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
NPDES ID: MAR1002YE**

December 10, 2020

Prepared for:

**First Colony Development Co. Inc.
5 Eda Avenue
Carver, MA 02330
(General Contractor)**

**New Hopping Brook Trust
7 Eda Avenue
Carver, MA 02330
(Property Owner)**

Document Prepared By:

***ENGINEERING DESIGN CONSULTANTS, INC.
32 TURNPIKE ROAD
SOUTHBOROUGH, MA 01772***

Estimated Project Dates
Project Start Date: December 21, 2020
Project Completion Date: December 15, 2021

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Plans in Appendix A:

Stormwater Pollution Prevention Plans (“The Drawings”)

National Pollutant Discharge Elimination System General Permit for Discharges from Construction Activities (as modified)

In compliance with the provisions of the Clean Water Act, 33 U.S.C. § 1251 et. seq., (hereafter CWA), as amended by the Water Quality Act of 1987, P.L. 100-4, “operators” of construction activities (defined in Appendix A) that meet the requirements of Part 1.1 of this National Pollutant Discharge Elimination System (NPDES) general permit, are authorized to discharge pollutants in accordance with the effluent limitations and conditions set forth herein. Permit coverage is required from the “commencement of construction activities” (see Appendix A) until one of the conditions for terminating CGP coverage has been met (see Part 8.2).

This permit becomes effective on **June 27, 2019**.

This permit and the authorization to discharge expire at 11:59pm, **February 16, 2022**.

https://www.epa.gov/sites/production/files/2019-06/documents/final_2017_cgp_current_as_of_6-6-2019.pdf

The proposed plan for stormwater runoff is to reduce the TSS off of the paved areas through the use of a structural treatment BMP's and infiltrate stormwater from roof areas. Paved areas will runoff into deep sump catch basins, and this runoff will then pass through a series of proprietary "Contech CDS Treatment" units for TSS treatment and then into an infiltration/detention basins that then flow out to wetland system located to northeast and southwest of the locus property. The roof runoff will flow by a leader pipe into the closed drainage system and then into the infiltration/detention basins that then flow out to the same wetland systems. There are emergency spillway designed for the basins and all stormwater systems are size for the 100-year storm event.

Every effort has been made on the plan and in this Stormwater Pollution Prevention Plan to protect downstream wetland systems. Erosion Control Methods & Procedures are explicitly stated and detailed all of which are to be adhered to at all times without exception.

Section 1: Contact Information/Responsible Parties

1.1 Operators / Subcontractors:

- Identify the operator(s) who will be engaged in construction activities at the site. Indicate respective responsibilities, where appropriate. Also include the 24-hour emergency contact.
- List subcontractors expected to work on-site. Notify subcontractors of stormwater requirements applicable to their work.
- Use Subcontractor Agreements included in Appendix G.

Operators:

First Colony Development Co. Inc.

5 Eda Avenue

Carver, MA 02330

508-965-3493

E-mail: mmilanoski@firstcolonydev.com

Area of Control: *General contractor is responsible for overseeing and performing all aspects of construction.*

Subcontractors:

Area of Control:

Emergency 24-Hour Contact:

Michael Milanoski 508-965-3493

mmilanoski@firstcolonydev.com

First Colony Development Co. Inc.

5 Eda Avenue

Carver, MA 02330

508-965-3493

1.2 Stormwater Team:

- Identify the staff members (by name or position) that comprise the project's stormwater team as well as their individual responsibilities. At a minimum the stormwater team is comprised of individuals who are responsible for overseeing the development of the SWPPP, any later modifications to it, and for compliance with the requirements in this permit (i.e., installing and maintaining stormwater controls, conducting site inspections, and taking corrective actions where required).
- Each member of the stormwater team must have ready access to either an electronic or paper copy of applicable portions of the this SWPPP.

Role or Responsibility: General Contractor Project Coordination Representative

Position: Overall Project Manager – SWPPP Certifier & Responsible Party

Person: Michael Milanoski

Tele #: 508-965-3493

E-mail: mmilanoski@firstcolonydev.com

Role or Responsibility: General Contractor Field Coordination

Position: Onsite Superintendent & SWPPP Onsite Implementation

Person: Louis (Bo) Iarussi

Tele #: 774-217-0324

E-mail: catpat2001@aol.com

Role or Responsibility: Project Engineer

Position: Lead Design Engineer – Layout - Field Inspection & SWPPP Coordination

Person: Peter Bemis

Tele #: 508-380-9922

E-mail: pbemis@edcma.com

Role or Responsibility:

Position:

Person:

Tele #:

E-mail:

Section 2: Site Evaluation, Assessment, and Planning

2.1 Project Site Information:

Project Name and Address:

*555 HOPPING BROOK ROAD
HOLLISTON, MASSACHUSETTS
Middlesex County*

Project Latitude/Longitude:

Latitude:

42° 10' 05"N

Longitude:

071° 27' 24"W

Source:

USGS Topographic Map (scale: 1"=2083')

Horizontal Reference Datum:

NAD 83

Additional Project Information:

Is the project/site located on Indian country lands, or located on a property of religious or cultural significance to an Indian tribe?

☐ Yes ☒ No

2.2 Discharge Information:

Does your project/site discharge stormwater into a Municipal Separate Storm Sewer System (MS4)?

☐ Yes ☒ No

Are there any surface waters that are located within 50 feet of your construction disturbances?

☐ Yes ☒ No

Name(s) of the first surface water that receives stormwater directly from your site and/or from the MS4 (note: multiple rows provided where your site has more than one point of discharge that flows to different surface waters)

2.3 Nature of Construction Activity:

General Description of Project:

The proposed project includes the construction of 800,420 sf. warehouse facility including site grading, parking lots, driveways, stormwater management systems, and infiltration systems along with other utility services and site improvements.

Size of Construction Project:

Size of Property:

72+/- Acres

Total Area of Construction Disturbance:

50+/- Acres

Maximum Area of Exposed Erodible Surface Area at Any One Time:

Less than 5.0 Acres

Construction Support Activities:

Describe any construction support activities for the project (e.g., concrete or asphalt batch plants, equipment storage yards, material storage areas, excavated material disposal areas, borrow areas)

Concrete or asphalt batch plants:

Not Applicable.

Equipment Storage Yards:

Not Applicable.

Material storage areas:

See Stormwater Pollution Prevention Plan for 555 Hopping Brook Rd.

Excavated material disposal areas:

All excavated materials to remain onsite. Spread loam and seed as soon as practicable in order to prevent erosion.

Borrow areas:

Not Applicable, as the site has been designed as a balanced cut to fill site.

Contact Person responsible construction support activities:

First Colony Development Co. Inc.

5 Eda Avenue

Carver, MA 02330

508-965-3493

2.4 Sequence and Estimated Dates of Construction Activities:

Overall Projected Start Date:

Project to commence December 21, 2020

Overall Projected End Date: *December 15, 2021.*

Project Schedule:

Phase I: Project Setup

1. *Post a sign with contact name and phone number.*

Phase II: Install Erosion Control Measures Limits as Per Phase 2 SWPPP Plan

2. Start Date: *December 21, 2020 or as weather may permit*
End Date: *December 31, 2020 or as weather may permit*
Stormwater Controls Installation and date to be installed:
 - a. *Erosion Control Barriers*
 - b. *Silt Fence/Compost Sock*
 - c. *Siltation Fabric installed in catch basin grates*
 - d. *Construction entrance protection (To be swept at the end of each day and closed with erosion controls)*Site Stabilization and date to be installed:
Not Applicable, control measures to be installed
Stormwater Control Removal Date:
All controls to be removed prior to completion of project – with Project Engineer’s signoff on or about November 30, 2021.

Phase III: Tree Clearing, Grub and Stump Wooded Areas as Per Phase 1 & Phase 2 SWPPP Plan

3. Start Date: *January 2, 2021 or as weather may permit*
End Date: *January 30, 2021 or as weather may permit*
Stormwater Controls Installation and date to be installed:
Construction Entrance Apron – December 21, 2020 or as weather may permit
Site Stabilization and date to be installed:
Erosion Control Measures
Stormwater Control Removal Date:
All controls to be removed prior to completion of project – with Project Engineer’s signoff on or about November 30, 2021.

Phase IV: Strip & Stockpile Topsoil Areas as Per Phase 2 SWPPP Plan

4. Start Date: *January 2, 2021 or as weather may permit*
End Date: *March 15, 2021 or as weather may permit*
Stormwater Controls Installation and date to be installed:
All stockpile locations present for more than a day, shall be covered as needed and surrounded with erosion control protection, locations as shown on the plan.
Site Stabilization and date to be installed:
Maintain control measures.
Stormwater Control Removal Date:
All controls to be removed prior to completion of project – with Project Engineer’s signoff on or about November 30, 2021.

Phase V: Mass Grading to Sub-base as Per Phase 2 SWPPP Plan

5. Start Date: *January 2, 2021 or as weather may permit*
End Date: *March 15, 2021 or as weather may permit*
Stormwater Controls Installation and date to be installed:
Maintain all storm water control measures
Site Stabilization and date to be installed:
Maintain control measures as currently installed.
Stormwater Control Removal Date:
*All controls to be removed prior to completion of project – with
Project Engineer’s signoff on or about November 30, 2021.*

Phase VI: Mass Grading to Sub-base as Per Phase 3 SWPPP Plan, Sheet 33 of 37 Overall Project SWPPP & Site Development Plans

6. Start Date: *March 16, 2021 or as weather may permit*
End Date: *May 31, 2021 or as weather may permit*
Stormwater Controls Installation and date to be installed:
Maintain all storm water control measures
Site Stabilization and date to be installed:
Maintain control measures as currently installed.
Stormwater Control Removal Date:
*All controls to be removed prior to completion of project – with
Project Engineer’s signoff on or about November 30, 2021.*

Phase VI: Buildings & Site Utilities

7. Start Date: *March 1, 2021 or as weather may permit*
End Date: *September 30, 2021 or as weather may permit*
Stormwater Controls Installation and date to be installed:
Maintain all storm water control measures
Site Stabilization and date to be installed:
Maintain control measures as currently installed.
Stormwater Control Removal Date:
*All controls to be removed prior to completion of project – with
Project Engineer’s signoff on or about November 30, 2021*

Phase VIII: Install Final Base Materials & Perform Fine Grading

8. Start Date: *July 1, 2021 or as weather may permit*
End Date: *August 30, 2021 or as weather may permit*
Stormwater Controls Installation and date to be installed:
Maintain all storm water control measures
Site Stabilization and date to be installed:
Maintain control measures as currently installed.
Stormwater Control Removal Date:

*All controls to be removed prior to completion of project – with
Project Engineer's signoff on or about November 30, 2021*

Phase IX: Perform Paving Operations

9. Start Date: *July 15, 2021 or as weather may permit*
End Date: *September 30, 2021 or as weather may permit*
Stormwater Controls Installation and date to be installed:
Maintain all storm water control measures
Site stabilization and date to be installed:
Maintain all storm water control measures
Stormwater Control Removal Date:
*All controls to be removed prior to completion of project – with
Project Engineer's signoff on or about November 30, 2021*

Phase X: Loam and Seed All Disturbed Areas

10. Start Date: *April 1, 2021 or as weather may permit*
End Date: *October 31, 2021*
Stormwater Controls Installation and date to be installed:
Maintain all storm water control measures
Site Stabilization and date to be installed:
Maintain control measures.
Stormwater Control Removal Date:
*All controls to be removed prior to completion of project – with
Project Engineer's signoff on or about November 30, 2021.*

Phase XI: Remove Erosion Control Provisions

11. Start Date: *November 15, 2021*
End Date: *November 30, 2021*
Stormwater Controls Installation and date to be installed:
Removal with Planning Board sign-off
Site Stabilization and date to be installed:
Completed in order to obtain Planning Board sign-off
Stormwater Control Removal Date:
*All controls to be removed prior to completion of project – with
Con. Com sign-off on or about November 30, 2021.*

2.5 Allowable Non-Stormwater Discharges

Type of Allowable Non-Stormwater Discharge	Likely to be Present at Your Site?
Discharges from emergency fire-fighting activities	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
Fire hydrant flushings	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
Landscape irrigation	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO

Waters used to wash vehicles and equipment	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Water used to control dust	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Potable water including uncontaminated water line flushings	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Routine external building wash down	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Pavement wash waters	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Uncontaminated air conditioning or compressor condensate	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Uncontaminated, non-turbid discharges of ground water or spring water	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO
Foundation or footing drains	<input checked="" type="checkbox"/> YES	<input type="checkbox"/> NO
Construction dewatering water	<input type="checkbox"/> YES	<input checked="" type="checkbox"/> NO

(Note: You are reminded of the requirement to identify the likely locations of these allowable non-stormwater discharges on your site map.

2.6 Site Maps

The Site Plan attached to this SWPPP are located in Appendix A.

The SWPPP Plans are as follows:

Sheet 1 of 4 Phase 1 Timber Harvest Plan dated October 1, 2020 and last revised 12/10/20

Sheet 2 of 4 Phase 2 Construction Erosion Control Plan dated Dec. 3, 2020 and last revised 12/10/20

Sheet 3 and 4 of 4 Phase 3 Erosion Control Plan dated October 22, 2020 and last revised 12/10/20

The overall project Site Plans were prepared by Engineering Design Consultants, Inc. and are entitled “555 Hopping Brook Road A Definitive Site Plan In Holliston, Massachusetts” Sheets 1-37 dated November 16, 2019 and last revised 3/2/20.

These Site Maps are also the Plan List (see sheet 1 of 37 for site plan list of plans): these plans may be updated from time to time based upon site conditions unknown at the time of issuance. The contractor and responsible parties shall communicate all construction details that conflict with the known site conditions of property prior to proceeding with construction.

Section 3: Documentation of Compliance with Other Federal Requirements:

3.1 Endangered Species Protection

Eligibility Criterion

The Subdivision is eligible for coverage under criterion A for this permit.

☒ A ☐ B ☐ C ☐ D ☐ E

Criterion A. No federally-listed threatened or endangered species or their designated critical habitat(s) are likely to occur in the site’s “action area” as defined in Appendix A of this permit.

Supporting Documentation

Provide in Appendix D is the documentation for the eligibility criterion selected.

3.2 Historic Preservation

Step 1

The following stormwater controls will be installed at the site.

- ☐ Dike
- ☒ Berm
- ☒ Proprietary Stormwater Treatment Structures
- ☒ Catch Basin
- ☒ Pond
- ☒ Stormwater Conveyance Channel (e.g., ditch, trench, perimeter drain, swale, etc.)
- ☒ Culvert
- ☒ Other type of ground-disturbing stormwater control:

Step 2

In Step 1, six stormwater controls were identified, and the site engineer performed an evaluation and determined that historic properties do not exist on-site.

☐ YES ☒ NO

Step 3

The site engineer determined that the installation of subsurface earth-disturbing stormwater controls will have no effect on historic properties? ☒ YES ☐ NO

The site engineer performed research of the National Historic Registered and contacted local historic authorities to confirm the site contains no known historic properties. ☒ YES ☐ NO

3.3 Safe Drinking Water Act Underground Injection Control Requirements

The proposed project does not apply.

Section 4: Erosion and Sediment Controls

The following is a list of all erosion and sediment controls that will be installed and maintained at the site:

- Erosion Control Barrier consisting of staked compost sock.
- Stand alone Silt Fence.
- Construction Entrance Apron.
- Catch basin filter fabric.
- Dust Control.
- Stockpile Protection.
- Slope Stabilization.

4.1 Natural Buffers or Equivalent Sediment Controls

Buffer Compliance Alternatives

Are there any surface waters within 50 feet of your project's earth disturbances? ☐ YES ☒ NO

☒ I will provide and maintain an undisturbed natural buffer that is less than 50 feet and is supplemented by additional erosion and sediment controls, which in combination achieves the sediment load reduction equivalent to a 50-foot undisturbed natural buffer.

Width of Natural Buffer:

The natural buffer identified on the plan that provides more than 100-feet of natural buffers to resource areas. In the event that less than 100-feet is ever provided that this activity will require a double row of siltation barrier to be placed.

Calculations showing the combination of the buffer area and the additional erosion and sediment controls to be installed will meet or exceed the sediment removal efficiency of a 50 foot buffer:

Slopes within 50 foot buffer area are generally less than 7 percent.

Table G – 4. Risk Levels for Sites with Average Slopes of > 6 Percent and ≤ 9 Percent					
	Soil Type				
Location	Clay	Silty Clay Loam or Clay Loam	Sand	Sandy Clay Loam, Loamy Sand or Silty Clay	Loam, Silt, Sandy Loam or Silt Loam
Massachusetts	Moderate	Moderate	Moderate	Moderate	High

The sites risk level within the 50 foot buffer is high as the soils consist of Sandy Loam.

Table G – 7. Additional Controls Needed				
Risk Level	Retain $\geq 50'$ Buffer	Retain $< 50'$ and $> 30'$ Buffer	Retain $\leq 30'$ and $> 10'$ Buffer	Retain $\leq 10'$ Buffer
Low Risk	No Additional Requirements	No Additional Requirement	Double Perimeter Control	Double Perimeter Control
Moderate	No Additional Requirements	Double Perimeter Control	Double Perimeter Control	Double Perimeter Control and 7-day Site Stabilization
High	No Additional Requirements	Double Perimeter Control	Double Perimeter Control and 7-day Site Stabilization	Double Perimeter Control and 7-day Site Stabilization

Calculate Estimated % Sediment Removal Prior to Construction.

Table G – 9-1. Estimated 50 foot Buffer Performance Prior to Construction in Massachusetts					
	Estimated % Sediment Removal				
Type of Buffer Vegetation	Clay	Silty Clay Loam or Clay Loam	Sand	Sandy Clay Loam, Loamy Sand or Silty Clay	Loam, Silt, Sandy Loam or Silt Loam
Medium-Density Weeds	66	76	60	7266.....

Calculate Estimated % Sediment Removal During Construction. Minimum 90% required.

Table G – 9-2. Estimated 50 foot Buffer Performance During Construction in Massachusetts	
Type of Buffer Vegetation	Loam, Silt, Sandy Loam or Silt Loam
Double Perimeter Control and 7-Day Site Stabilization99.....

4.2 Perimeter Controls

General Perimeter Controls:

Prior to earth disturbing activities all erosion control barriers will be installed. They consist of:

- *Erosion Control Barrier consisting of staked compost sock.*

Specific Perimeter Controls:

Perimeter Control # 1

- *Erosion Control Barrier: Erosion Control Barrier consisting of compost sock staked in place.*
 - *Refer to the drawing for location and detail*
- *Installation date: December 21, 2020*
- *Maintenance Requirements: At a minimum, CGP Part 2.1.2.2.b requires removal of sediment before it has accumulated to one-half of the above-ground height of any perimeter control."*

4.3 Sediment Track-Out

General Description:

A construction entrance apron is to be installed to minimize the track-out of sediment onto Hopping Brook Road. All construction vehicles are to utilize the entrance as defined on the drawing.

Specific Track-Out Controls:

Track-Out Control # 1

- *Construction Entrance Apron*
- *Installation date: December 21, 2020*
- *Maintenance Requirements: Where sediment has been tracked-out from our site to Hopping Brook Road or other paved areas, we must remove the deposited sediment by the end of the same work day in which the track-out occurs or by the end of the next work day if track-out occurs on a non-work day. We will remove the track-out by sweeping, shoveling, or vacuuming these surfaces, or by using other similarly effective means of sediment removal. We are prohibited from hosing or sweeping tracked-out sediment into any stormwater conveyance (unless it is connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or surface water.*

4.4 Stockpiled Sediment or Soil:

General Description:

Loam stockpile area will be located as designated on the SWPPP Plans. The Stockpile will be covered upon establishing the quantity required for re-use. A silt fence will be installed along the down-gradient side of the stockpile.

Specific Stockpile Controls:

Stockpile Control # 1

- Seed or install blanket or cover with stump grindings until weather improves
- Standard fast growing seed mixture
- Installation date: upon completion of stockpiling
- Maintenance Requirements: Not Applicable

Stockpile Control # 2

- Silt Fence
- See the drawing for detail
- Installation date: upon completion of stockpiling
- Maintenance Requirements: At a minimum, we will comply with following requirement in CGP Part 2.1.2.4.d: We will not hose down or sweep soil or sediment accumulated on pavement or other impervious surfaces into any stormwater conveyance (unless connected to a sediment basin, sediment trap, or similarly effective control), storm drain inlet, or surface water.

4.5 Minimize Dust:

General Description:

The site will be treated with water and or calcium when necessary in order to minimize dust. Cover and stabilization by the end of each work day as per Town of Holliston's Stormwater and Land Disturbance Permit, Condition #19.

Specific Dust Controls:

Stockpile Control # 1

- Schedule as needed
- Installation date: as needed
- Maintenance Requirements: N.A.

4.6 Minimize the Disturbance of Steep Slopes:

General Description:

All site slopes 3:1 or steeper will be treated with the slope stabilization as noted on the drawing or an approved equal. There are slopes that are proposed steeper than 3:1 and these will require specialized treatment. Contractor shall adhere to plan details and specifications where noted.

Steep Slope Control # 1

- Slope Stabilization including Jute, Curlex Blankets and stone riprap where noted are required on slopes greater than 3:1
- See the drawing for notes
- Installation date: during grading process and upon completion of loaming
- Maintenance Requirements: Natural slopes must be watered appropriately to maintain seed mixture moist, but not over watering to generate erosion.

- 4.7 Topsoil:
General Description:
Refer to discussion of topsoil throughout this SWPPP. Planting soil mix shall be a minimum 1 part peat moss and 4 parts topsoil.
- 4.8 Soil Compaction:
General Description:
The areas of the site to be loamed and seeded are on the outside of the driveways and paved areas. Once these areas are treated, access will not be necessary for any reason.
- 4.9 Storm Drain Inlets:
General Description:
Once the Contech units are installed, the grates shall be protected from silt intrusion by placement of haybales around the grates.
- 4.10 Constructed Stormwater Conveyance Channels:
General Description:
Temporary stormwater conveyance channels shall be stabilized using loam & seed and by using stone check dams, permanent channels shall be rip-rapped. Slope stabilization is mandatory and shall be adjusted according to current, as well as, forecasted weather conditions.
- 4.11 Sediment Basins:
General Description:
Sediment basins shall be loamed and seeded to prevent erosion, they shall have erosion control barrier placed on the downslope side of the basin. Sizing of the sediment basins is taken from the "Massachusetts erosion and Sediment Control Guidelines for Urban and suburban Areas" by the Massachusetts DEP, dated March 1997 and reprinted in May 2003. Sediment Basins shall have a minimum volume of 1,800 cubic feet per acre disturbed. So for the Phase 2, we have 8 – 5Acre disturbed areas and 4 sediment basins. $8 \times 5 = 40 \text{ acres} \times 1,800 \text{ CF/Ac} = 72,000 \text{ CF}$. The 4 sediment basins provide approximately 173,000 CF. of storage.
- 4.12 Chemical Treatment:
General Description:
Not Applicable

4.13 Dewatering Practices:
General Description:
Not Anticipated

4.14 Other Stormwater Controls:
General Description:
Not Anticipated

Section 5: Pollution Prevention Standards

5.1 Potential Sources of Pollution:

Pollutant-Generating Activity	Pollutants or Pollutant Constituents (that could be discharged if exposed to stormwater)	Location on Site (or reference SWPPP site map where this is shown)
Equipment Fueling	Fuels and oils	Work Limits – Described Below
Earth Excavation	Sediment Transport	Work Limits – Described Below

[Include additional rows as necessary.]

5.2 Spill Prevention and Response:

1. All petroleum-based products stored on-site will be in durable containers with tight threaded lids or caps stored under a covered structure (roofed), outside of the 100-foot buffer zone.
2. Petroleum based products will be poured by competent and experienced personnel using funnels or appropriate nozzles, and done away from any natural or manmade stream, water source, conduit, or pipeline, outside 100-foot buffer zone and/or jurisdictional areas.
3. A spill kit or sufficient supply of absorbent diaper rags, goggles, gloves and other necessary supplies necessary will be present on site, with the location made known to all contractor employees and personnel.
4. The trained site supervisor, foreman, or designated competent man will direct clean up operations, and ensure they are done safely, properly and expeditiously.

5.3 Fueling and Maintenance of Equipment or Vehicles

General Description:

Equipment shall be fueled and serviced only by trained personnel and shall be completed only on flat durable surfaces that can be properly protected in the event of a spill.

5.4 Washing of Equipment and Vehicles:

General Description: Construction Equipment shall not be washed on this project site.

5.5 Storage, Handling, and Disposal of Construction Products, Materials, and Wastes:

General Description: All excavated materials shall be re-deposited onsite. In the event unsuitable materials are discovered then these materials would be hauled to an approved site for deposition.

5.5.1 Building Products:

General Description: Building materials shall be installed and all waste products disposed in waste containers and hauled by licensed service providers.

5.5.2 Pesticides, Herbicides, Insecticides, Fertilizers, and Landscape Materials:

General Description:

Only organic fertilizers and pesticides November be applied and when in use these materials shall only be used by authorized individuals trained in the application of these products in accordance with the manufacturer's guidelines.

5.5.3 Diesel Fuel, Oil, Hydraulic Fluids, Other Petroleum Products, and Other Chemicals:

General Description: used for construction equipment only by trained personnel as provided above.

- 5.5.4 Hazardous or Toxic Waste:
General Description: None proposed or allowed.
- 5.5.5 Construction and Domestic Waste:
General Description: Waste products disposed in waste containers and hauled by licensed service providers.
- 5.5.6 Sanitary Waste:
General Description: onsite porta potty by licensed provider
- 5.6 Washing of Applicators and Containers used for Paint, Concrete or Other Materials:
General Description: not applicable to this project
- 5.7 Fertilizers:
General Description:
When in use these materials shall only be used by authorized individuals trained in the application of these products in accordance with the manufacturer's guidelines
- 5.8 Other Pollution Prevention Practices:
General Description: to be observed when applicable.

Section 6: Inspection and Corrective Action

6.1 Inspection Personnel and Procedures:

Personnel Responsible for Inspections

555 Hopping Brook Road,

Louis (Bo) Iarussi - Site Contact Person

Peter Bemis, Project Engineer

Note: All personnel conducting inspections must be considered a “qualified person.” CGP Part 4.1.1 clarifies that a “qualified person” is a person knowledgeable in the principles and practices of erosion and sediment controls and pollution prevention, who possesses the skills to assess conditions at the construction site that could impact stormwater quality, and the skills to assess the effectiveness of any stormwater controls selected and installed to meet the requirements of this permit.

Inspection Schedule

Specific Inspection Frequency

Inspection after each rainfall event and weekly inspections to ensure the integrity of the erosion control system.

Rain Gauge Location: Contractor shall install and monitor a rain gauge onsite, preferably install nearby the site trailer. Gauge is intended to show accurate rainfall amounts in the Construction Site Inspection Reports, in addition contractor shall consult the rain gauge that is located at Claybrook Farm Road (KMAMEDWA20) for data correlation.

Reductions in Inspection Frequency (if applicable)

- For the reduction in inspections resulting from stabilization: no reduction not applicable
- For the reduction in inspections in arid, semi-arid, or drought-stricken areas: no reduction not applicable
- For reduction in inspections due to frozen conditions: no reduction not applicable

Inspection Report Forms: Attached

6.2 Corrective Action:

Instructions (CGP Parts 5 and 7.2.12):

- Describe the procedures for taking corrective action in compliance with CGP Part 5.

Personnel Responsible for Corrective Actions: **Louis (Bo) Iarussi - Site Contact Person**

Corrective Action Forms: Attached

6.3 Delegation of Authority: To be determined

Instructions:

- Identify the individual(s) or positions within the company who have been delegated authority to sign inspection reports.
- Attach a copy of the signed delegation of authority (see example in Appendix J of the Template.
- For more on this topic, see Appendix I, Subsection 11 of EPA's CGP.

Duly Authorized Representative(s) or Position(s):

Insert Company or Organization Name:

Insert Name:

Insert Position:

Insert Address:

Insert City, State, Zip Code:

Insert Telephone Number:

Insert Fax/Email:

Section 7: **Training**

Instructions (see CGP Part 6 and 7.2.13):

- Complete the table below to provide documentation that the personnel required to be trained in CGP Part 6 completed the appropriate training
- If personnel will be taking course training (which is not required as part of the CGP), consider using Appendix I to track completion of this training
- The following personnel, at a minimum, must be receive training, and therefore should be listed out individually in the table below:
 - o Personnel who are responsible for the design, installation, maintenance, and/or repair of stormwater controls (including pollution prevention measures);
 - o Personnel responsible for the application and storage of treatment chemicals (if applicable);
 - o Personnel who are responsible for conducting inspections as required in Part 4.1.1; and
 - o Personnel who are responsible for taking corrective actions as required in Part 5.
- CGP Part 6 requires that the required personnel must be trained to understand the following if related to the scope of their job duties:
 - o The location of all stormwater controls on the site required by this permit, and how they are to be maintained;
 - o The proper procedures to follow with respect to the permit's pollution prevention requirements; and
 - o When and how to conduct inspections, record applicable findings, and take corrective actions.


Name	Date Training Completed
To be determined	INSERT COMPLETION DATE HERE
INSERT NAME OF PERSONNEL HERE	INSERT COMPLETION DATE HERE
INSERT NAME OF PERSONNEL HERE	INSERT COMPLETION DATE HERE
INSERT NAME OF PERSONNEL HERE	INSERT COMPLETION DATE HERE
INSERT NAME OF PERSONNEL HERE	INSERT COMPLETION DATE HERE
INSERT NAME OF PERSONNEL HERE	INSERT COMPLETION DATE HERE
INSERT NAME OF PERSONNEL HERE	INSERT COMPLETION DATE HERE
INSERT NAME OF PERSONNEL HERE	INSERT COMPLETION DATE HERE
INSERT NAME OF PERSONNEL HERE	INSERT COMPLETION DATE HERE

Section 8: Certification and Notification

Instructions (CGP Appendix I, Part I.11.b):

- The following certification statement must be signed and dated by a person who meets the requirements of Appendix I, Part I.11.b.
- This certification must be re-signed in the event of a SWPPP Modification.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: Michael R. Milanoski Title: Manager
Signature:  Date: 12/10/2020

[Repeat as needed for multiple construction operators at the site.]

SWPPP APPENDICES

Attach is the following documentation to the SWPPP:

Appendix A – Site Maps

Appendix B – Inspection Form

Appendix C – SWPPP Amendment Log

Appendix D – Subcontractor Certifications/Agreements

Appendix E – Grading and Stabilization Activities Log

Appendix F – Training Log

Appendix G – Delegation of Authority

Appendix H – Endangered Species Documentation

Appendix I – Historic Preservation Documentation

Appendix A – Site Maps

See Stormwater Pollution Prevention Plan

Appendix B – Copy of Inspection Form

General Information (see reverse for instructions)			
Name of Project	NPDES ID No.	Inspection Date	
Weather conditions during inspection	Inspection start time	Inspection end time	
Inspector Name, Title & Contact Information			
Present Phase of Construction			
Inspection Location (if multiple inspections are required, specify location where this inspection is being conducted)			
Inspection Frequency (Note: you may be subject to different inspection frequencies in different areas of the site. Check all that apply)			
Standard Frequency: <input type="checkbox"/> Every 7 days <input type="checkbox"/> Every 14 days and within 24 hours of a 0.25" rain or the occurrence of runoff from snowmelt sufficient to cause a discharge			
Increased Frequency: <input type="checkbox"/> Every 7 days and within 24 hours of a 0.25" rain (for areas of sites discharging to sediment or nutrient-impaired waters or to waters designated as Tier 2, Tier 2.5, or Tier 3)			
Reduced Frequency: <input type="checkbox"/> Twice during first month, no more than 14 calendar days apart; then once per month after first month; (for stabilized areas) <input type="checkbox"/> Twice during first month, no more than 14 calendar days apart; then once more within 24 hours of a 0.25" rain (for stabilized areas on "linear construction sites") <input type="checkbox"/> Once per month and within 24 hours of a 0.25" rain (for arid, semi-arid, or drought-stricken areas during seasonally dry periods or during drought) <input type="checkbox"/> Once per month (for frozen conditions where earth-disturbing activities are being conducted)			
Was this inspection triggered by a 0.25" storm event? <input type="checkbox"/> Yes <input type="checkbox"/> No If yes, how did you determine whether a 0.25" storm event has occurred? <input type="checkbox"/> Rain gauge on site <input type="checkbox"/> Weather station representative of site. Specify weather station source:			
Total rainfall amount that triggered the inspection (in inches):			
Was this inspection triggered by the occurrence of runoff from snowmelt sufficient to cause a discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No			
Unsafe Conditions for Inspection Did you determine that any portion of your site was unsafe for inspection per CGP Part 4.5? <input type="checkbox"/> Yes <input type="checkbox"/> No If "yes", complete the following: <ul style="list-style-type: none"> - Describe the conditions that prevented you from conducting the inspection in this location: - Location(s) where conditions were found: 			

Condition and Effectiveness of Erosion and Sediment (E&S) Controls (CGP Part 2.2)

(see reverse for instructions)

Type/Location of E&S Control [Add an additional sheet if necessary]	Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?	Notes
1.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
2.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
3.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
4.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
5.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
6.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
7.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
8.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
9.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		
10.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No		

* **Note:** The permit differentiates between conditions requiring routine maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition. Corrective actions are triggered only for specific conditions, which include: 1) A stormwater control needs repair or replacement (beyond routine maintenance) if it is not operating as intended; 2) A stormwater control necessary to comply with the permit was never installed or was installed incorrectly; 3) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 4) One of the prohibited discharges in Part 1.3 is occurring or has occurred; or 5) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.8. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at <https://www.epa.gov/nrpdes/stormwater-discharges-construction-activities#resources>. See Part 5 of the permit for more information.

If maintenance or corrective action is required, briefly note the reason. If maintenance or corrective action have been completed, make a note of the date it was completed and what was done. If corrective action is required, note that you will need to complete a separate corrective action report describing the condition and your work to fix the problem.

Condition and Effectiveness of Pollution Prevention (P2) Practices (CGP Part 2.3)			
Type/Location of P2 Practices [Add an additional sheet if necessary]	Maintenance Needed?*	Corrective Action Required?*	Date on Which Maintenance or Corrective Action First Identified?
Notes			
1.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
2.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
3.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
4.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
5.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
6.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
7.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
8.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
9.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	
10.	<input type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input type="checkbox"/> No	

* **Note:** The permit differentiates between conditions requiring routine maintenance, and those requiring corrective action. The permit requires maintenance in order to keep controls in effective operating condition. Corrective actions are triggered only for specific conditions, which include: 1) A stormwater control needs repair or replacement (beyond routine maintenance) if it is not operating as intended; 2) A stormwater control necessary to comply with the permit was never installed or was installed incorrectly; 3) You become aware that the stormwater controls you have installed and are maintaining are not effective enough for the discharge to meet applicable water quality standards or applicable requirements in Part 3.1; 4) One of the prohibited discharges in Part 1.3 is occurring or has occurred; or 5) EPA requires corrective actions as a result of a permit violation found during an inspection carried out under Part 4.8. If a condition on your site requires a corrective action, you must also fill out a corrective action form found at <https://www.epa.gov/nodes/stormwater-discharges-construction-activities#resources>. See Part 5 of the permit for more information.

Stabilization of Exposed Soil (CGP Part 2.2.14) (see reverse for instructions)			
Stabilization Area [Add an additional sheet if necessary]	Stabilization Method	Have You Initiated Stabilization?	Notes
1.		<input type="checkbox"/> YES If yes, provide date:	
2.		<input type="checkbox"/> YES If yes, provide date:	
3.		<input type="checkbox"/> YES If yes, provide date:	
4.		<input type="checkbox"/> YES If yes, provide date:	
5.		<input type="checkbox"/> YES If yes, provide date:	

Description of Discharges (CGP Part 4.6.6) (see reverse for instructions)	
Was a stormwater discharge or other discharge occurring from any part of your site at the time of the inspection? <input type="checkbox"/> Yes <input type="checkbox"/> No	
Discharge Location [Add an additional sheet if necessary]	
1.	<p>Describe the discharge:</p> <p>At points of discharge and the channels and banks of waters of the U.S. in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:</p>
2.	<p>Describe the discharge:</p> <p>At points of discharge and the channels and banks of waters of the U.S. in the immediate vicinity, are there any visible signs of erosion and/or sediment accumulation that can be attributed to your discharge? <input type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>If yes, describe what you see, specify the location(s) where these conditions were found, and indicate whether modification, maintenance, or corrective action is needed to resolve the issue:</p>

Contractor or Subcontractor Signature and Certification

(see reverse for instructions)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Contractor or Subcontractor: _____**Date:** _____**Printed Name and Affiliation:** _____**Operator Signature and Certification**

(see reverse for instructions)

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I have no personal knowledge that the information submitted is other than true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

Signature of Operator or "Duly Authorized Representative": _____**Date:** _____**Printed Name and Affiliation:** _____

Appendix C – Sample SWPPP Amendment Log

Instructions (see CGP Part 7.4):

- Create a log here of changes and updates to the SWPPP. You may use the table below to track these modifications.
- SWPPP modifications are required pursuant to CGP Part 7.4.1 in the following circumstances:
 - 3.3 Whenever new operators become active in construction activities on your site, or you make changes to your construction plans, stormwater control measures, pollution prevention measures, or other activities at your site that are no longer accurately reflected in your SWPPP;
 - 3.4 To reflect areas on your site map where operational control has been transferred (and the date of transfer) since initiating permit coverage;
 - 3.5 If inspections or investigations determine that SWPPP modifications are necessary for compliance with this permit;
 - 3.6 Where EPA determines it is necessary to impose additional requirements on your discharge; and
 - 3.7 To reflect any revisions to applicable federal, state, tribal, or local requirements that affect the stormwater control measures implemented at the site.
- If applicable, if a change in chemical treatment systems or chemically-enhanced stormwater control is made, including use of a different treatment chemical, different dosage rate, or different area of application.

No.	Description of the Amendment	Date of Amendment	Amendment Prepared by [Name(s) and Title]

Appendix D – Sample Subcontractor Certifications/Agreements

SUBCONTRACTOR CERTIFICATION
STORMWATER POLLUTION PREVENTION PLAN

Project Number: _____

Project Title: _____

Operator(s): _____

As a subcontractor, you are required to comply with the Stormwater Pollution Prevention Plan (SWPPP) for any work that you perform on-site. Any person or group who violates any condition of the SWPPP November be subject to substantial penalties or loss of contract. You are encouraged to advise each of your employees working on this project of the requirements of the SWPPP. A copy of the SWPPP is available for your review at the office trailer.

Each subcontractor engaged in activities at the construction site that could impact stormwater must be identified and sign the following certification statement:

I certify under the penalty of law that I have read and understand the terms and conditions of the SWPPP for the above designated project and agree to follow the practices described in the SWPPP.

This certification is hereby signed in reference to the above named project:

Company: _____

Address: _____

Telephone Number: _____

Type of construction service to be provided: _____

Signature: _____

Title: _____

Date: _____

Appendix E – Sample Grading and Stabilization Activities Log

[illegible]

**Stormwater Pollution Prevention Plan
555 Hopping Brook Road
HOLLISTON, MASSACHUSETTS**

Appendix F – Sample SWPPP Training Log

Stormwater Pollution Prevention Training Log

Project Name:

Project Location:

Instructor's Name(s):

Instructor's Title(s):

Course Location: _____ Date: _____

Course Length (hours): _____

Stormwater Training Topic: *(check as appropriate)*

- ☐ **Sediment and Erosion Controls** ☐ **Emergency Procedures**
- ☐ **Stabilization Controls** ☐ **Inspections/Corrective Actions**
- ☐ **Pollution Prevention Measures**

Specific Training Objective: _____

Attendee Roster: *(attach additional pages as necessary)*

No.	Name of Attendee	Company
1		
2		
3		
4		
5		
6		
7		
8		

**Stormwater Pollution Prevention Plan
555 Hopping Brook Road
HOLLISTON, MASSACHUSETTS**

Appendix G – Sample Delegation of Authority Form

Delegation of Authority

I, _____ (name), hereby designate the person or specifically described position below to be a duly authorized representative for the purpose of overseeing compliance with environmental requirements, including the Construction General Permit, at the _____ construction site. The designee is authorized to sign any reports, stormwater pollution prevention plans and all other documents required by the permit.

(name of person or position)
(company)
(address)
(city, state, zip)
(phone)

By signing this authorization, I confirm that I meet the requirements to make such a designation as set forth in Appendix I of EPA’s Construction General Permit (CGP), and that the designee above meets the definition of a “duly authorized representative” as set forth in Appendix I.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Name: _____

Company: _____

Title: _____

Signature: _____

Date: _____

**Stormwater Pollution Prevention Plan
555 Hopping Brook Road
HOLLISTON, MASSACHUSETTS**

Appendix H – Endangered Species Documentation

There are no reported Endangered Species located in or within 100-feet of the subject property as reported by the Massachusetts Division of Natural Heritage.

**Stormwater Pollution Prevention Plan
555 Hopping Brook Road
HOLLISTON, MASSACHUSETTS**

**Stormwater Pollution Prevention Plan
555 Hopping Brook Road
HOLLISTON, MASSACHUSETTS**

Appendix I – Historic Properties Documentation

There are no reported Historic Properties located in or within 100-feet of the subject property as reported by the Town of Holliston.