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STORMWATER MANAGEMENT REPORT
977 BRIGHTON AVENUE ELDERLY APARTMENTS
PORTLAND, MAINE

December 22, 2017

Project Description:

This project located at the corner of Brighton Avenue and Wessex Street will be the construction of a four story building for 40 senior apartments. Avesta Housing is the Applicant. The existing home and garage on site will be removed.

Existing Conditions:

The site slopes from Brighton Avenue down along Wessex Street to a small stream at the back of the site. The existing site has a single family home near Brighton Avenue, a garage in the middle of the site and a wetland in the back along Wessex Street.

Developed Conditions:

The developed site will consist of a 4 story building with a footprint of 7,825 sq. ft. The rear of the site will have 32 parking spaces of which 12 area ADA compliant. The building will be accessed off Brighton Avenue by a walkway and in the rear with a small walkway and patio. The total impervious area on site is 19,395 sq. ft.

Stormwater Treatment:

This site is the redevelopment of the existing site. Under Chapter 500 Redeveloment Guidelines the project must treat 60% of the runoff. This is obtained by using Focal Point Systems for Wessex Street side of the site and for the parking lot area. These are proprietary systems. Once reviewed by the manufacturer a letter of adequacy will be generated.

Methodology:

This stormwater analysis was performed using HydroCad Software based on TR-55 modeling conditions. This model requires assumptions as to the land cover, slopes and soils. These are enhanced by the topography mapping, soils mapping, and on-site observations. The flows were determined using a Type III coastal storm and rainfall totals for the 24 hour period for a 1 year storm, 2.6", for a 2 year storm, 3.1", for a 10 year storm, 4.6", and for a 25 year storm, 5.8".

These data are published in the manual for Stormwater Management for Maine: Best Management Practices, published by the Maine Department of Environmental Protection.

Peak flows: The peak flows are controlled by using a storage system under the parking lot. It will reduce the peak flows from the existing peak flows as shown in the table below.

Table

Peak Flows Cubic Feet Per Second (cfs)			
Storm Event	2 Year	10 Year	25 Year
Existing	1.09	2.12	2.99
Developed	0.54	1.03	1.35

Conclusion:

This parcel provides flow control and treatment of stormwater. It will have no unreasonable impacts on downstream abutters or environments.

STATE OF MAINE
THOMAS S. GREER
No. 4206
LICENSED
PROFESSIONAL ENGINEER

Thomas S. Greer, P.E.
12/22/17

Routing Diagram for SENIOR APARTMENTS 16150 TSG
Prepared by Hewlett-Packard Company, Printed 12/21/2017
HydroCAD® 10.00-16 s/n 01454 © 2015 HydroCAD Software Solutions LLC

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: EAST SIDE OF Runoff Area=13,040 sf 12.46% Impervious Runoff Depth>1.10"
Tc=5.0 min CN=78 Runoff=0.41 cfs 0.028 af

Subcatchment 2S: WEST SIDE OF Runoff Area=18,709 sf 16.70% Impervious Runoff Depth>1.29"
Tc=6.0 min CN=81 Runoff=0.68 cfs 0.046 af

Subcatchment 10S: EAST SIDE OF Runoff Area=8,533 sf 2.81% Impervious Runoff Depth>0.99"
Tc=5.0 min CN=76 Runoff=0.24 cfs 0.016 af

Subcatchment 20S: WEST SIDE OF Runoff Area=23,427 sf 81.55% Impervious Runoff Depth>2.31"
Tc=6.0 min CN=94 Runoff=1.45 cfs 0.104 af

Reach 3R: POA STREAM CHANNEL Avg. Flow Depth=0.28' Max Vel=1.54 fps Inflow=1.09 cfs 0.074 af
n=0.035 L=10.0' S=0.0100 '/' Capacity=54.17 cfs Outflow=1.09 cfs 0.074 af

Reach 30R: POA STREAM CHANNEL Avg. Flow Depth=0.19' Max Vel=1.23 fps Inflow=0.54 cfs 0.084 af
n=0.035 L=10.0' S=0.0100 '/' Capacity=54.17 cfs Outflow=0.54 cfs 0.084 af

Pond 6P: CHAMBER SYSTEM Peak Elev=52.52' Storage=2,377 cf Inflow=1.45 cfs 0.104 af
Outflow=0.45 cfs 0.068 af

Total Runoff Area = 1.463 ac Runoff Volume = 0.193 af Average Runoff Depth = 1.59"
62.18% Pervious = 0.909 ac 37.82% Impervious = 0.553 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: EAST SIDE OF Runoff Area=13,040 sf 12.46% Impervious Runoff Depth>2.21"
Tc=5.0 min CN=78 Runoff=0.83 cfs 0.055 af

Subcatchment 2S: WEST SIDE OF Runoff Area=18,709 sf 16.70% Impervious Runoff Depth>2.46"
Tc=6.0 min CN=81 Runoff=1.30 cfs 0.088 af

Subcatchment 10S: EAST SIDE OF Runoff Area=8,533 sf 2.81% Impervious Runoff Depth>2.05"
Tc=5.0 min CN=76 Runoff=0.51 cfs 0.033 af

Subcatchment 20S: WEST SIDE OF Runoff Area=23,427 sf 81.55% Impervious Runoff Depth>3.69"
Tc=6.0 min CN=94 Runoff=2.25 cfs 0.166 af

Reach 3R: POA STREAM CHANNEL Avg. Flow Depth=0.40' Max Vel=1.89 fps Inflow=2.13 cfs 0.143 af
n=0.035 L=10.0' S=0.0100 '/' Capacity=54.17 cfs Outflow=2.12 cfs 0.143 af

Reach 30R: POA STREAM CHANNEL Avg. Flow Depth=0.27' Max Vel=1.52 fps Inflow=1.03 cfs 0.162 af
n=0.035 L=10.0' S=0.0100 '/' Capacity=54.17 cfs Outflow=1.03 cfs 0.162 af

Pond 6P: CHAMBER SYSTEM Peak Elev=53.12' Storage=3,530 cf Inflow=2.25 cfs 0.166 af
Outflow=0.65 cfs 0.129 af

Total Runoff Area = 1.463 ac Runoff Volume = 0.342 af Average Runoff Depth = 2.81"
62.18% Pervious = 0.909 ac 37.82% Impervious = 0.553 ac

Time span=5.00-20.00 hrs, dt=0.05 hrs, 301 points
Runoff by SCS TR-20 method, UH=SCS, Weighted-CN
Reach routing by Stor-Ind+Trans method - Pond routing by Stor-Ind method

Subcatchment 1S: EAST SIDE OF Runoff Area=13,040 sf 12.46% Impervious Runoff Depth>3.18"
Tc=5.0 min CN=78 Runoff=1.19 cfs 0.079 af

Subcatchment 2S: WEST SIDE OF Runoff Area=18,709 sf 16.70% Impervious Runoff Depth>3.47"
Tc=6.0 min CN=81 Runoff=1.82 cfs 0.124 af

Subcatchment 10S: EAST SIDE OF Runoff Area=8,533 sf 2.81% Impervious Runoff Depth>2.99"
Tc=5.0 min CN=76 Runoff=0.74 cfs 0.049 af

Subcatchment 20S: WEST SIDE OF Runoff Area=23,427 sf 81.55% Impervious Runoff Depth>4.80"
Tc=6.0 min CN=94 Runoff=2.89 cfs 0.215 af

Reach 3R: POA STREAM CHANNEL Avg. Flow Depth=0.48' Max Vel=2.08 fps Inflow=3.00 cfs 0.204 af
n=0.035 L=10.0' S=0.0100 '/' Capacity=54.17 cfs Outflow=2.99 cfs 0.204 af

Reach 30R: POA STREAM CHANNEL Avg. Flow Depth=0.31' Max Vel=1.65 fps Inflow=1.35 cfs 0.227 af
n=0.035 L=10.0' S=0.0100 '/' Capacity=54.17 cfs Outflow=1.35 cfs 0.227 af

Pond 6P: CHAMBER SYSTEM Peak Elev=54.48' Storage=4,265 cf Inflow=2.89 cfs 0.215 af
Outflow=0.96 cfs 0.178 af

Total Runoff Area = 1.463 ac Runoff Volume = 0.468 af Average Runoff Depth = 3.84"
62.18% Pervious = 0.909 ac 37.82% Impervious = 0.553 ac

Summary for Subcatchment 1S: EAST SIDE OF EXISTING SITE

Runoff = 0.41 cfs @ 12.08 hrs, Volume= 0.028 af, Depth> 1.10"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2 YEAR Rainfall=3.10"

	Area (sf)	CN	Description
*	1,625	98	BUILDING
*	11,415	75	LANDSCAPED
	13,040	78	Weighted Average
	11,415		87.54% Pervious Area
	1,625		12.46% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					**Direct Entry, DIRECT**

Summary for Subcatchment 2S: WEST SIDE OF EXISTING SITE

Runoff = 0.68 cfs @ 12.10 hrs, Volume= 0.046 af, Depth> 1.29"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2 YEAR Rainfall=3.10"

	Area (sf)	CN	Description
*	1,500	98	PAVED
*	12,826	75	LANDSCAPED
*	2,758	93	GRAVEL
*	1,625	98	PAVED
	18,709	81	Weighted Average
	15,584		83.30% Pervious Area
	3,125		16.70% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					**Direct Entry, DIRECT**

Summary for Subcatchment 10S: EAST SIDE OF DEVELOPED SITE

Runoff = 0.24 cfs @ 12.09 hrs, Volume= 0.016 af, Depth> 0.99"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2 YEAR Rainfall=3.10"

	Area (sf)	CN	Description
*	240	98	PAVED
*	8,293	75	LANDSCAPED
	8,533	76	Weighted Average
	8,293		97.19% Pervious Area
	240		2.81% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
5.0					Direct Entry, DIRECT

Summary for Subcatchment 20S: WEST SIDE OF DEVELOPED SITE

Runoff = 1.45 cfs @ 12.09 hrs, Volume= 0.104 af, Depth> 2.31"

Runoff by SCS TR-20 method, UH=SCS, Weighted-CN, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Type III 24-hr 2 YEAR Rainfall=3.10"

	Area (sf)	CN	Description
*	11,280	98	PAVED
*	4,322	75	LANDSCAPED
*	7,825	98	BUILDING
	23,427	94	Weighted Average
	4,322		18.45% Pervious Area
	19,105		81.55% Impervious Area

Tc (min)	Length (feet)	Slope (ft/ft)	Velocity (ft/sec)	Capacity (cfs)	Description
6.0					Direct Entry, DIRECT

Summary for Reach 3R: POA STREAM CHANNEL

Inflow Area = 0.729 ac, 14.96% Impervious, Inflow Depth > 1.21" for 2 YEAR event
Inflow = 1.09 cfs @ 12.09 hrs, Volume= 0.074 af
Outflow = 1.09 cfs @ 12.09 hrs, Volume= 0.074 af, Atten= 0%, Lag= 0.2 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.54 fps, Min. Travel Time= 0.1 min
Avg. Velocity = 0.54 fps, Avg. Travel Time= 0.3 min

Peak Storage= 7 cf @ 12.09 hrs
Average Depth at Peak Storage= 0.28'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 54.17 cfs

2.00' x 2.00' deep channel, n= 0.035
Side Slope Z-value= 2.0 '/' Top Width= 10.00'
Length= 10.0' Slope= 0.0100 '/'
Inlet Invert= 0.00', Outlet Invert= -0.10'

Summary for Reach 30R: POA STREAM CHANNEL

Inflow Area = 0.734 ac, 60.53% Impervious, Inflow Depth > 1.37" for 2 YEAR event
Inflow = 0.54 cfs @ 12.32 hrs, Volume= 0.084 af
Outflow = 0.54 cfs @ 12.33 hrs, Volume= 0.084 af, Atten= 0%, Lag= 0.3 min

Routing by Stor-Ind+Trans method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Max. Velocity= 1.23 fps, Min. Travel Time= 0.1 min
Avg. Velocity = 0.61 fps, Avg. Travel Time= 0.3 min

Peak Storage= 4 cf @ 12.33 hrs
Average Depth at Peak Storage= 0.19'
Bank-Full Depth= 2.00' Flow Area= 12.0 sf, Capacity= 54.17 cfs

2.00' x 2.00' deep channel, n= 0.035
Side Slope Z-value= 2.0 '/' Top Width= 10.00'
Length= 10.0' Slope= 0.0100 '/'
Inlet Invert= 0.00', Outlet Invert= -0.10'

Summary for Pond 6P: CHAMBER SYSTEM

Inflow Area = 0.538 ac, 81.55% Impervious, Inflow Depth > 2.31" for 2 YEAR event
Inflow = 1.45 cfs @ 12.09 hrs, Volume= 0.104 af
Outflow = 0.45 cfs @ 12.41 hrs, Volume= 0.068 af, Atten= 69%, Lag= 19.2 min
Primary = 0.45 cfs @ 12.41 hrs, Volume= 0.068 af

Routing by Stor-Ind method, Time Span= 5.00-20.00 hrs, dt= 0.05 hrs
Peak Elev= 52.52' @ 12.41 hrs Surf.Area= 1,950 sf Storage= 2,377 cf

Plug-Flow detention time= 158.2 min calculated for 0.068 af (65% of inflow)
Center-of-Mass det. time= 88.0 min (846.8 - 758.8)

Volume	Invert	Avail.Storage	Storage Description
#1	51.00'	5,368 cf	**Custom Stage Data (Prismatic)** Listed below (Recalc)

Elevation (feet)	Surf.Area (sq-ft)	Inc.Store (cubic-feet)	Cum.Store (cubic-feet)
51.00	780	0	0
52.00	1,950	1,365	1,365
53.00	1,950	1,950	3,315
53.50	780	683	3,998
54.00	100	220	4,218
55.00	100	100	4,318
56.00	2,000	1,050	5,368

Device	Routing	Invert	Outlet Devices
#1	Primary	52.00'	**6.0" Round Culvert** L= 110.0' Ke= 0.500 Inlet / Outlet Invert= 52.00' / 51.50' S= 0.0045 '/' Cc= 0.900 n= 0.010, Flow Area= 0.20 sf
#2	Primary	55.50'	**5.0' long x 2.0' breadth Broad-Crested Rectangular Weir** Head (feet) 0.20 0.40 0.60 0.80 1.00 1.20 1.40 1.60 1.80 2.00 2.50 3.00 3.50 Coef. (English) 2.54 2.61 2.61 2.60 2.66 2.70 2.77 2.89 2.88 2.85 3.07 3.20 3.32

Primary OutFlow Max=0.45 cfs @ 12.41 hrs HW=52.52' (Free Discharge)
└─**1=Culvert** (Barrel Controls 0.45 cfs @ 2.72 fps)
└─**2=Broad-Crested Rectangular Weir** (Controls 0.00 cfs)

977 BRIGHTON AVENUE ELDERLY APARTMENTS
PORTLAND, MAINE

INSPECTION AND MAINTENANCE
OF STORMWATER MANAGEMENT FACILITIES

Stormwater Management Facilities include swales, paved surfaces, drain pipe, riprapped aprons, level spreaders, buffers detention basins/treatment ponds. Periodic inspection and maintenance of these site features and devices is necessary to prevent erosion, protect roadways and other paved areas, and remove pollutants from stormwater runoff.

The operation and maintenance will be the responsibility of the developer.

POST CONSTRUCTION MONITORING:

32-38. Post-construction stormwater management plan compliance.

Any person owning, operating, or otherwise having control over a BMP required by a post Construction stormwater management plan shall maintain the BMPs in accordance with the approved plan and shall demonstrate compliance with that plan as follows:

(a) Inspections. The owner or operator of a BMP shall hire a qualified post-construction stormwater inspector to at least annually, inspect the BMPs, including but not limited to any parking areas, catch basins, drainage swales, detention basins and ponds, pipes and related structures, in accordance with all municipal and state inspection, cleaning and maintenance requirements of the approved post-construction stormwater management plan.

(b) Maintenance and repair. If the BMP requires maintenance, repair or replacement to function as intended by the approved post-construction stormwater management plan, the owner or operator of the BMP shall take corrective action(s) to address the deficiency or deficiencies as soon as possible after the deficiency is discovered and shall provide a record of the deficiency and corrective action(s) to the department of public services ("DPW") in the annual report.

(c) Annual report. The owner or operator of a BMP or a qualified post-construction stormwater inspector hired by that person, shall, on or by June 30 of each year, provide a completed and signed certification to DPW in a form provided by DPW, certifying that the person has inspected the BMP(s) and that they are adequately maintained and functioning as intended by the approved post-construction stormwater management plan, or that they require maintenance or repair, including the record of the deficiency and corrective action(s) taken.

(d) Filing fee. Any persons required to file and annual certification under this section shall include with the annual certification a filing fee established by DPW to pay the administrative and technical costs of review of the annual certification.

(e) Right of entry. In order to determine compliance with this article and with the post-construction stormwater management plan, DPW may enter upon property at reasonable hours with the consent of the owner, occupant or agent to inspect the BMPs.

(Ord. No. 35-09/10, 8-17-09; Ord. 108-15/16, 11-16-2015)

SWALES, DITCHES, CURBS AND PAVED AREAS:

Swales, ditches, curbs and paved areas are easily inspected during a site walk or even a ride-by. Since visual inspection is easy, their condition should be assessed during and/or after significant rainfall events such as thunder showers and periods of heavy or extended rainfall and during periods of significant snowmelt. Any damage or unusual condition such as sedimentation of a ditch, erosion, damaged curb or dying vegetation should be recorded, dated and initialed by the inspector when observed. Even if there is no damage, the inspector should make record of these inspections at least twice annually.

Paved areas should be visually inspected monthly during the winter. The inspector should pay particular attention to the build up of sand around catch basin grates and remove accumulations that block the free flow of surface runoff to the catch basins. The date and initials of the inspector should be recorded on the forms provided as well as a notation of any cleanup effort that was made and the approximate volume of sand that was removed.

CATCH BASINS, FIELD INLETS AND DRAIN MANHOLES:

Catch Basins and field inlets are precast concrete structures with sumps and cast iron grates used to collect stormwater and trap heavy sediments. Drain Manholes are similar structures constructed with a channel instead of a sump and a solid cast iron cover instead of a grate. Drain Manholes exist at changes in direction and/or size of storm drain pipe. Catch Basins, field inlets and drain manholes provide access to the closed storm drain system for inspection and maintenance.

Throughout the winter / spring sanding period, inspect catch basins and field inlets monthly and after every significant rainfall event or period of heavy snowmelt. Clean catch basin and field inlet sumps when sediment level is within 3 inches of the outlet pipe invert. Record dates of inspections, observations and maintenance measures implemented (if any) on the forms provided and initial the entry.

Confined space entry safety procedures should be practiced when entering these structures.

DRAIN PIPES:

Drain pipes are road culverts and pipes connecting drain manholes. Inspect drain pipes when inspecting other stormwater maintenance facilities. At least annually make a visual inspection of the pipe. During the daylight you should be able to see light through most pipes as they have been laid to a straight line and grade. In some cases (e.g. pipe runs to a drain

manhole, or is blocked) you will need a light to inspect pipes.

Clean pipes as necessary. Record inspections on the forms provided noting condition of pipe and any maintenance procedures implemented.

FOCAL POINT SYSTEMS:

See Manufacturer's data on maintenance of the filters.

977 BRIGHTON AVENUE ELDERLY APARTMENTS PORTLAND, MAINE			
INSPECTION / MAINTENANCE LOG			
SWALES, DITCHES, CURBS AND PAVED SURFACES			
I: INSPECTED - C: CLEANED - S: SWEPT - R: REPAIRED			
DATE	**INITIALS**	**ACTION**	**COMMENT**
10-2-17	TSG	I, C	EXAMPLE: removed sand around CB's 1, 2 and 3. Heavy rain over the weekend.

977 BRIGHTON AVENUE ELDERLY APARTMENTS PORTLAND, MAINE			
INSPECTION / MAINTENANCE LOG			
CATCH BASIN, FIELD INLETS & DRAIN MANHOLES			
I: INSPECTED - C: CLEANED - R: REPAIRED			
DATE	**INITIALS**	**ACTION**	**COMMENT**
10/2/17	JKL	I, C	EXAMPLE: Called ACME to clean catch basins, cleaned debris from culvert inlets along access road.

977 BRIGHTON AVENUE ELDERLY APARTMENTS PORTLAND, MAINE			
INSPECTION / MAINTENANCE LOG			
DRAIN PIPES			
I: INSPECTED - C: CLEANED - R: REPAIRED			
DATE	**INITIALS**	**ACTION**	**COMMENT**
10-2-17	TSG	I, C	EXAMPLE: Called ACME to clean catch basins, cleaned debris from culvert inlets along access road.

977 BRIGHTON AVENUE ELDERLY APARTMENTS PORTLAND, MAINE			
INSPECTION / MAINTENANCE LOG			
FOCAL POINT FILTERS			
I: INSPECTED - C: CLEANED - S: SWEPT - R: REPAIRED			
DATE	**INITIALS**	**ACTION**	**COMMENT**
10-2-17	TSG	I, C	EXAMPLE: Unit cleaned by ACME, 2 truckloads to Pike

STORMWATER MANAGEMENT SYSTEM MAINTENANCE PROGRAM SUMMARY CHECKLIST					
		Frequency			
Item	**Commentary**	**Month**	**Semi-Annual**	**Annual**	**Long-Term**
Open Swale, Ditches & Inlet Structures	Inspect for debris accumulation, erosion and excessive vegetation. Mow monthly, remove debris, repair and revegetate any area of erosion	**X Mow**		**X**	
Pavement	Review for damage and buildup of debris and sand.	**X**	**X Sweep**		
Pipelines	Inspect for sediment build-up in pipe. Flush and remove as required.			**X**	
Focal Point Filters	The filter should be inspected after every major storm in the first few months to ensure proper function			**X Sediment Removal**	**X Weed, Repl. Media**

HOUSEKEEPNG REPORT

977 BRIGHTON AVENUE ELDERLY APARTMENTS
PORTLAND, MAINE

December 22, 2017

Housekeeping: The developer is responsible for notifying the contractor and owner of the housekeeping standards.

1. Spill Prevention: The contractor and owners need to take care with construction and waste materials such that contaminates do not enter the stormwater. The storage of materials such as paint, petroleum products, cleaning agents and the like are to be stored in watertight containers. The use of the products should be in accordance with manufacturer recommendations. When fueling equipment, including snowblowers and lawnmowers, have oil absorbent pads available below the fueling.

   Staging areas are noted on the plans for the contractor's use. Refueling of small engines by the owner should occur in the garage or on a paved surface.

   Any spill or release of toxic or hazardous substances must be reported to the Department. For oil spills, call 1-800-482-0777 which is available 24 hours a day. For spills of toxic or hazardous material, call 1-800-452-4664 which is available 24 hours a day. For more information, visit the Department's website at: http:/www.maine.gov/dep/spills/emergspillresp/

2. Groundwater Protection: Protection of the groundwater is required by the contractor and owner. Petroleum products should be stored in manufactured cans designed for the purpose. Spill preventions procedures should be followed.

3. Fugitive Sediment and Dust: The contractor is required to minimize dust from the construction operation. The road should be swept regularly (weekly) and prior to any rain event. The gravel areas are to be watered regularly to minimize dust. Any mud that is tracked off site should be cleaned up prior to it drying and becoming a dust issue.

   Do not use oil to control dust.

   Dewatering a stream without a permit from the Department may violate state water quality standards and the Natural Resources Protection Act.

4. Debris and Other Materials: Construction materials and construction debris should be covered to prevent rainwater from washing contaminants off the site. Any fertilizers, cleaning products, herbicides should be protected from the weather and used in accordance with manufacturers recommendations.

   Note any contaminants that are washed off the site by rainwater is a violation of the Clean Waters Act.

Storage Handling and Disposal of Solid Waste items must comply with Maine's Solid Waste Management Rules. Lack of appropriate pollutant control may result in violations of the Groundwater Quality Standards.

This project has a written Erosion Control Plan and Stormwater Maintenance Plan. Modifications to the plan must be approved by the Town.

Maintenance of stormwater treatment and control systems must occur regularly. The Stormwater Maintenance Report provides inspection details and time lines for doing the inspections and reporting to the Town and DEP