Transcontinental Gas Pipe Line Company, LLC

Requirement M-1 - Erosion and Sediment Control Plan Drawings and Narrative

(as provided in the ESCGP-3 Application)

Regional Energy Access Expansion Project – Regional Energy Lateral

April 2021

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SECTION 2.1.1

NARRATIVE

1. Project Description (NOI Checklist Item 3.n)

Transcontinental Gas Pipe Line Company, LLC (Transco), indirectly owned by the Williams Companies, Inc. (Williams) is seeking authorization from the Federal Energy Regulatory Commission (FERC) under Section 7(c) of the Natural Gas Act and Part 157 of the Commission's regulations to construct, own, operate, and maintain the proposed Project facilities associated with the Regional Energy Access Expansion Project (Project). The Project is an expansion of Transco's existing natural gas transmission system that will enable Transco to provide an incremental 829,400 dekatherms per day (Dth/d) of year-round firm transportation capacity from the Marcellus Shale production area in northeastern Pennsylvania to multiple delivery points along Transco's Leidy Line in PA and Mainline in PA, NJ, and MD.

The Regional Energy Lateral (REL) is proposed as part of the overall Regional Energy Access Expansion Project (Project). The Regional Energy Lateral component of the Project will consist of approximately 22.3 miles of 30-inch diameter pipeline, partially co-located with existing Transco Leidy Line-A, in Buck, Bear Creek, Plains, Jenkins, Kingston and Dallas Townships, and Laflin, Wyoming, and West Wyoming Boroughs, Luzerne County, Pennsylvania. The Regional Energy Lateral begins at existing Compressor Station 515 in Buck Township and continues westward to its terminus at Transco's existing Hildebrandt Tie-in/MLV-515RA40 in Dallas Township. A separate E&SC/SR Plan Narrative is provided for Compressor Station 515.

This E&SC and SR Plan has been developed for Regional Energy Lateral which includes: (1) MLV-515RA20, (2) MLV-515RA30, (3) Carverton Tie-in, (4) Lower Demunds REL Tie-in, and (5) Hildebrandt Tie-in/MLV-515RA40. Additionally, two channels have been added to the SR Plan to restabilize and redirect existing streams, S4a-T5/S4-T5 and S5-T5/S6-T5, in Laflin, PA. Located along the pipeline route are two proposed contractor yards, CY-LU-001 and CY-LU-002. The E&SC and SR Plan shall be designed and implemented to be consistent with the Post Construction Stormwater Management (PCSM) Plan under 25 Pa. Code § 102.8 (relating to PCSM requirements). Transco will use and implement the practices, measures and details outlined herein to control soil erosion and off-site sedimentation. The work and disturbed areas are located within Transco property, existing easements or legally obtained workspace. The limit of disturbance (LOD) for the Regional Energy Lateral Pipeline will be approximately 417 acres, which includes portions of Compressor Station 515. Subject to FERC's certification of the Project and receipt of the necessary permits and authorizations, Transco anticipates construction of the Project to start in third quarter 2022 to meet a proposed in-service date of December 1, 2023.

1.1 MLV-515RA20

The MLV-515RA20 is proposed along the REL Pipeline in Bear Creek Township, Luzerne County at Milepost 7.54. It is proposed as a means to isolate gas flows along sections of a pipeline. Pig launchers/receivers and communication equipment may be located at the MLV facility. The facility will include a 125 foot long gravel access road, 55 ft x 90 ft gravel pad, various diversion and collection channels, and a dry extended detention basin PCSM Best Management Practice (BMP).

1.2 MLV-515RA30

The MLV515-RA30 is proposed along the REL Pipeline in Wyoming Borough, Luzerne County at Milepost 14.84. It is proposed as a means to isolate gas flows along sections of a pipeline. Pig launchers/receivers and communication equipment may be located at the MLV facility. The facility will include a 192-foot gravel access road, 62 ft x 96 ft gravel pad, and an infiltration basin PCSM BMP.

1.3 Carverton Tie-in

The Carverton Tie-in is a receipt tie-in proposed in West Wyoming Borough, Luzerne County at Milepost 16.8. Proposed is the installation of new tie-in piping into the proposed REL Pipeline, valves, and aboveground tie-in piping for an annubar meter. The facility will include a 55 ft x 90 ft gravel pad, and an infiltration berm PCSM BMP.

1.4 Lower Demunds Rel Tie-in

The Lower Demunds REL Tie-in is a receipt tie-in proposed in Dallas Township, Luzerne County near the terminus of the Regional Energy Lateral at Milepost 22.1. Proposed is the installation of approximately 400 feet of new 20-inch-diameter tie-in piping from Transco's existing Leidy Line A tie-in site to the new proposed REL Pipeline tie-in site, valves, and new aboveground tie-in piping for an annubar meter. The facility will include a 74.5 ft x 84 ft gravel pad. With limited run-on to the pad area, stormwater management will be accomplished by infiltration within the pad area itself. The pad will be bermed around the exterior to retain stormwater for infiltration. An overflow spillway will be used to discharge excess flow to a level spreader. Runoff rates have been reduced by 40% of the pre-construction flow rates in accordance with the Dallas Township ordinance.

1.5 Hildebrandt Tie-in/MLV-515RA40

The Hildebrandt Tie-in/MLV-515RA40 is receipt tie-in proposed in Dallas Township, Luzerne County, at the terminus of the Regional Energy Lateral at Milepost 22.34. Proposed is the installation of new aboveground tie-in piping, valves, and aboveground piping for an annubar meter, and install Hildebrandt Tie-in/MLV-515RA40 and associated pig trap. The facility will include an 80 ft x 140 ft gravel pad. With run-on to the pad area diverted by an upgradient channel, stormwater management will be accomplished by infiltration within the pad area itself. The pad will be bermed around the exterior to retain stormwater for infiltration. An overflow spillway will be used to discharge excess flow to the diversion channel and subsequently to a level spreader. Runoff rates have been reduced by 40% of the pre-construction flow rates in accordance with the Dallas Township ordinance.

1.6 S5-T5/S6-T5 AND S4A-T5/S4-T5 Stream Stabilization

Two areas of existing stream channel and bank stabilization and reconstruction through the REL Pipeline right-of-way are proposed for the project. The first stream section is designated as S4a-T5/S4-T5 and is located between Mileposts 11.0 and 11.1. The second section is designated as S5-T5/6S-T5 and is located between Mileposts 11.2 and 11.3. Work will include channel and bank stabilization, reconstruction where necessary, and new channel sections as needed to retore the streams and protect the REL Pipeline.

1.7 Contractor Yards

Along the REL Pipeline are two proposed contractor yards. CY-LU-001 is located at Milepost 15.3 and CY-LU-002 is located at Milepost 10.5. Both contractor yards are temporary in nature and no significant earth disturbance is proposed for either yard.

Contractor Yard CY-LU-001 has an approximate size of 13 acres. CY-LU-002 covers an approximate area of 16 acres.

E&S BMP’s proposed for the contractor yards include rock construction entrances and compost filter socks. Upon completion of construction activities, both yards will be restored to original conditions. No PCSM BMP’s are proposed for either yard.

2. Topographic Features of the Area (NOI Checklist Item 3.a, 7.a)

A Project Location Map for the Regional Energy Lateral Pipeline is included in Attachment 1. This map shows the topographical features of the general site vicinity and is based on the USGS 7.5 Minute topographical mapping of the AVOCA, Kingston, Pittston, Pleasant Valley Summit, and Wilkes-Barre East, Pennsylvania quadrangles.

3. Receiving Surface Waters (NOI Checklist Item 3.e, 7.e)

The following table (Table 1) list each watershed located Regional Energy Lateral Pipeline Project Area, its Chapter 93 Water Quality Standards, and Pennsylvania Fish and Boat Commission classifications. A Wetland and Watercourse Delineation Report is included in Attachment A of the ESCGP-3 permit application.

Table 1 – Receiving Waters

Watershed Name	Designated Use	Existing Use	PFBC Classification
Stony Run	HQ-CWF, MF	-	Naturally Producing Wild Trout Stream
Shades Creek, Trib 04286 & Trib 04285 to Shades Creek	HQ-CWF, MF	-	Naturally Producing Wild Trout Stream
Little Shades Creek & Trib to 04284 to Little Shades Creek	HQ-CWF, MF	-	Naturally Producing Wild Trout Stream
Snider Run	HQ-CWF, MF	-	Naturally Producing Wild Trout Stream
Meadow Run	HQ-CWF, MF	-	Naturally Producing Wild Trout Stream
Bear Creek	HQ-CWF, MF	-	Naturally Producing Wild Trout Stream
Trib 046312 to Little Bear Creek	HQ-CWF, MF	-	Naturally Producing Wild Trout Stream
Mill Creek, Trib 63014 & 63015 to Mill Creek	CWF, MF	-	Class A Wild Trout
Gardner Creek	CWF, MF	-	Naturally Producing Wild Trout Stream
Susquehanna River	WWF, MF	-	N/A
Trib 64676 to Susquehanna River	CWF, MF	-	N/A
Abrahams Creek, Trib 28363 & Trib 28365 to Abrahams Creek	CWF, MF	-	Naturally Producing Wild Trout Stream, portions of Trib 28363 only (MP 15.8-17.7)
Trib 63020 to Toby Creek	CWF, MF	-	Naturally Producing Wild Trout Stream
Abrahams Creek	CWF, MF	-	N/A
Trib 63034 to Toby Creek	CWF, MF	-	Naturally Producing Wild Trout Stream
Abrahams Creek	CWF, MF	-	N/A
Trib 63036 to Toby Creek	CWF, MF	-	Naturally Producing Wild Trout Stream
Trib 28371 to Abrahams Creek	CWF, MF	-	N/A
Abrahams Creek	CWF, MF	-	N/A
Trout Brook, Trib 63040 to Trout Brook	CWF, MF	-	Naturally Producing Wild Trout Stream
Trib 63042 to Toby Creek	CWF, MF	-	Naturally Producing Wild Trout Stream
MF: Migratory Fishes, WWF: Warm Water Fishes, HQ-CWF: High Quality- Cold Water fishes			

4. Types, Depth, Slope, Locations & Limitation of the Soils and Geologic Formations (NOI Checklist Item 3.b, 3.I, 7.b, 7.I)

The soil associations on site were identified by soil map units as mapped in the Web Soil Survey website (https://websoilsurvey.sc.egov.usda.gov/) by the United States Dept. of Agriculture (USDA), Natural Resources Conservation Service (NRCS). There are 60 soil mapping units located within the LOD, see Table 2 below:

Table 2 – Soils mapping units within the LOD

Soil Mapping Unit	Soil Series
Ag	Alluvial land
ArB	Arnot-Rock outcrop complex, 0 to 8 percent slopes
ArD	Arnot-Rock outcrop complex, 8 to 25 percent slopes
ASF	Arnot-Rock outcrop complex, steep
At	Atherton silt loam, gray subsoil variant
Bf	Basher soils
BrC	Braceville gravelly loam, 8 to 15 percent slopes
CF	Cut and fill land
ChA	Chenango gravelly loam, 0 to 3 percent slopes
ChB	Chenango gravelly loam, 3 to 8 percent slopes
ChC	Chenango gravelly loam, 8 to 15 percent slopes
ClA	Chippewa silt loam, 0 to 3 percent slopes
CnB	Chippewa silt loam, 0 to 8 percent slopes, extremely stony
DdD	Dekalb channery sandy loam, 8 to 25 percent slopes, rubbly
DEF	Dekalb extremely stony sandy loam, steep
GP	Gravel pits
Ho	Holly silt loam
LaC	Lackawanna channery silt loam, 8 to 15 percent slopes
LaD	Lackawanna channery silt loam, 15 to 25 percent slopes
LcB	Lackawanna channery silt loam, 3 to 8 percent slopes, extremely stony
LcD	Lackawanna channery silt loam, 8 to 25 percent slopes, extremely stony
LEF	Lackawanna and Bath soils, steep, extremely stony
Ln	Linden soils
McB	Mardin channery silt loam, 3 to 8 percent slopes, very stony
McD	Mardin channery silt loam, 8 to 25 percent slopes, very stony
Mg	Mine dump
Mh	Mine dump, burned
Mm	Mine wash
MoB	Morris channery silt loam, 0 to 8 percent slopes
MsB	Morris channery silt loam, 0 to 8 percent slopes, extremely stony
Mu	Muck

OlB	Oquaga and Lordstown channery silt loams, 3 to 8 percent slopes
OlC	Oquaga and Lordstown channery silt loams, 8 to 15 percent slopes
OlD	Oquaga and Lordstown channery silt loams, 15 to 25 percent slopes
OpB	Oquaga and Lordstown extremely stony silt loams, 3 to 8 percent slopes
OpD	Oquaga and Lordstown extremely stony silt loams, 8 to 25 percent slopes
OXF	Oquaga and Lordstown extremely stony silt loams steep
Ps	Pope soils
Qu	Quarries and mines
RdA	Rexford loam, 0 to 3 percent slopes
RdB	Rexford loam, 3 to 8 percent slopes
Sm	Strip mine
VoB	Volusia channery silt loam, 0 to 8 percent slopes
VrB	Volusia channery silt loam, 0 to 8 percent slopes, extremely stony
VrC	Volusia channery silt loam, 8 to 15 percent slopes, extremely stony
W	Water
Wa	Wayland silt loam
WeB	Weikert and Klinesville channery silt loams, 3 to 8 percent slopes
WeD	Weikert and Klinesville channery silt loams, 15 to 25 percent slopes
WlB	Wellsboro channery silt loam, 3 to 8 percent slopes
WlC	Wellsboro channery silt loam, 8 to 15 percent slopes
WlD	Wellsboro channery silt loam, 15 to 25 percent slopes
WmB	Wellsboro channery silt loam, 3 to 8 percent slopes, extremely stony
WmD	Wellsboro channery silt loam, 8 to 25 percent slopes, extremely stony
WrB	Wurtsboro channery loam, 3 to 8 percent slopes
WrC	Wurtsboro channery loam, 8 to 15 percent slopes
WtB	Wurtsboro extremely stony loam, 3 to 8 percent slopes
WtD	Wurtsboro extremely stony loam, 8 to 25 percent slopes
WyD	Wyoming gravelly loam, 15 to 25 percent slopes
WyF	Wyoming gravelly loam, 25 to 60 percent slopes

Detailed descriptions and mapping of soil mapping units are provided in the Attachment 2. Soil use limitations (outlined in Table 3) were reviewed in relation to the Regional Energy Lateral Pipeline and resolutions were identified in Section 4.1.

Table 3 – Limitations of Pennsylvania Soils Pertaining to Earth Disturbance Projects (Erosion and Sediment Control Best Management Practice (BMP) Manual – Technical Guidance Number 363-3134-008/Page 401)

SOIL NAME	SOIL WITH SLOPE CLASS	CUTBANKS CAVE	CORROSIVE TO CONCRETE\STEEL	DROUGHTY	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED ZONE/ SEASONAL HIGH WATER TABLE	HYDRIC/ HYDRIC INCLUSIONS	LOW STRENGTH / LANDSLIDE PRONE	SLOW PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	FROST ACTION	SHRINK - SWELL	POTENTIAL SINKHOLE	PONDING	WETNESS
Alluvial Land	Ag	X	C/S			X	X	X		X	X	X	X		X		X
Arnot	ArB, ArD, ASF	X	C	X	X				X	X		X	X				
Atherton	At	X	S				X	X	X	X	X	X	X			X	X
Basher	Bf	X	C/S			X	X	X	X	X	X	X	X				X
Braceville	BrC	X	C/S	X	X		X	X	X	X	X	X	X				X
Cut and Fill	CF																
Chenango	ChA, ChB, ChC	X	C	X		X	X	X		X	X	X	X				
Chippewa	ClA, CnB	X	C/S	X	X		X	X	X	X	X		X	X		X	
DeKalb	DdD, DEF	X	C	X					X	X	X	X	X				
Gravel Pits	GP																
Holly	Ho	X	C/S			X	X	X	X	X	X	X	X			X	X
Lackawanna	LaC, LaD, LcB, LcD, LEF	X	C	X			X	X	X			X	X				X
Linden	Ln	X	C			X	X	X	X	X	X		X				
Mardin	McB, McD	X	S	X	X		X	X	X	X	X		X				X
Mine Dump	Mg																
Mine Dump, Burned	Mh																
Mine Wash	Mm																
Morris	MoB, MsB	X	C/S	X	X		X	X	X	X		X	X				X
Muck	Mu		X			X	X	X			X					X	X
Oguaga	OlB, OlC, OlD, OpB, OpD, OXF	X	C	X	X			X		X			X				
Pope	Ps	X	C/S		X	X		X	X	X	X	X	X				
Quarries and Mines	Qu																
Rexford	RdA, RdB	X	C/S	X		X	X	X	X	X	X	X	X				X
Strip Mine	Sm																
Volusia	VoB, VrB, VrC	X	C/S	X	X		X	X	X	X	X	X	X				

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SOIL NAME	SOIL WITH SLOPE CLASS	CUTBANKS CAVE	CORROSIVE TO CONCRETE\STEEL	DROUGHTY	EASILY ERODIBLE	FLOODING	DEPTH TO SATURATED ZONE/ SEASONAL HIGH WATER TABLE	HYDRIC/ HYDRIC INCLUSIONS	LOW STRENGTH / LANDSLIDE PRONE	SLOW PERCOLATION	PIPING	POOR SOURCE OF TOPSOIL	FROST ACTION	SHRINK - SWELL	POTENTIAL SINKHOLE	PONDING	WETNESS
Water	W																
Wayland	Wa	X	S		X	X	X	X	X	X	X	X	X			X	X
Weikhart	WeB, WeD	X	C/S	X				X	X	X	X	X	X				
Wellsboro	WlB, WlC, WlD, WmB, WmD	X	C/S	X	X		X	X	X	X	X		X				X
Wurtsboro	WrB, WrC, WtB, WtD	X	C/S				X	X		X		X	X				
Wyoming	WyD, WyF	X	C	X				X		X		X					

4.1 Resolution of Soil Limitations

Transco proposes the following resolutions to compensate for soil limitations summarized in Table 3 above:

1. To offset the caving of cutbanks, trenching operations will be conducted in accordance with the OSHA Technical Manual for Trenching.
2. Preventative coatings shall be used to prevent corrosion of concrete and/ or steel.
3. When bedrock is encountered it will be removed by mechanical methods or blasting. Blasting operations will conform with local, state, and federal regulations.
4. Precautions will be taken to prevent slope failure when working within low strength soils by flattening cut / fill slopes, not overloading, maintaining lateral support, and preventing saturation of soils. Low strength soils will not be used for roadway construction.
5. Excavation in soils prone to flooding, slow percolation, ponding, wetness, located in a seasonal high water table, or which are hydric, will likely encounter water.

Compensation will involve dewatering with appropriate means such as pump water filter bags, sediment traps, etc.

6. Soils that have the potential to swell, shrink, or heave due to frost action may cause damage to roadways or pads. Where foundations are critical, compensation may require removal and replacement of soils with suitable material.
7. In circumstances where soils appear to be a poor source of topsoil, drought or prone to wetness, soil testing will be performed to determine the appropriate applications of soil amendments to promote growth. Soils onsite that are fair sources of topsoil, will be identified, stripped and stockpiled for use during restoration.
8. In order to minimize erosion of soils that are easily erodible, compensation may involve providing a protective lining, to apply seed, mulch, erosion control blankets (either in rolls or hydraulically applied), tracking slopes, upstream diversions, waterbars, etc to minimize soil erosion.

4.2 Geologic Formations

Transco utilized United States Geological Survey (USGS), Geologic Map of Pennsylvania - Map 1, dated 1980 (online), to evaluate geologic hazards on the Project. The desktop analysis completed for the Project by CEC revealed that the Regional Energy Lateral Pipeline does not cross known, mapped, or inferred faults. No mines or Karst formations were identified in the site vicinity. However, the analysis outlined that Regional Energy Lateral Pipeline lies within a zone of moderate to high landslide incidence and susceptibility.

Due to the moderate to high landslide incidence and susceptibility, a Geological Hazard Assessment and Mitigation Plan was completed by CEC and is submitted with this application (Attachment B). The Geological Hazard Assessment and Mitigation Plan identifies appropriate best management practices to avoid and mitigate for conditions encountered during construction.

5. Characterizations of Earth Disturbance Activities, Including Past, Present, and Proposed Land Uses (NOI Checklist Item 3.c, 7.c)

Transco retained Civil & Environmental Consultants, Inc. (CEC) of Pittsburgh, PA to perform a geohazard assessment, the following is provided from their 2020 report. Transco will be installing various tie-in and mainline valve (MLV) facilities along the REL Pipeline as a means of controlling gas flows. Pig launchers/receivers, valves and other ancillary equipment will be located at these facilities. The work and disturbed areas are located within Transco property, existing easements, or legally obtained temporary workspace.

Using data taken from Google Earth and Multi-Resolution Land Characteristics (MRLC) Consortium website (https://www.mrlc.gov/viewer/), it appears that the Regional Energy Lateral Pipeline site has been an existing and maintained gas pipeline right-of-way for the past 20 years and will continue to be an existing and maintained gas pipeline right-of-way once the Project is complete. Based on the surrounding land characteristics, land use prior to ROW construction within the past 50 years likely would have been either forested land or meadow. Past, present, and proposed land uses for each site were as follows in Table 4.

Table 4 – Past, Present, and Proposed Land Uses

Site	Past Land Use	Present Land Use	Proposed Land Use
MLV-515RA20	Woodland	Woodland	Mainline Valve Yard/ Pipeline Right-of-Way
MLV-515RA30	Urban Area	Urban Area	Mainline Valve Yard/ Pipeline Right-of-Way
Carverton Tie-in	Woodland	Woodland/Pipeline Right-of-way	Tie-In/Pipeline Right-of-Way
Lower Demunds REL Tie-in	Woodland	Pipeline Right-of-Way	Tie-In/Pipeline Right-of-Way
Hildebrandt Tie-in / MLV-515RA40	Woodland	Pipeline Right-of-Way	Tie-In/Pipeline Right-of-Way
Streams S4a-T5/S4-T5 & S5-T5/S6-T5	Woodland/ Surface Mines	Woodland	Pipeline Right-of-Way

Earth disturbance activities at each facility will include grading to create level gravel pad areas, installation of PCSM BMP's, and construction of gravel access roads. Disturbed areas within the temporary workspaces will be restored to the original contours.

The contractor will construct stormwater BMPs to mitigate the increase in volume and peak rates associated with construction. The proposed BMPs are designed to evaporate and/or infiltrate the net increase in volume between the pre- and post-development 2-year rain events. Refer to the Stormwater BMP Sizing Calculations in Attachment 3 for additional information.

6. Erosion and Sediment Control Best Management Practices (NOI Checklist Item 3.f, 7.f)

Various erosion and sediment control measures will be used during the construction of the Regional Energy Lateral Pipeline. BMPs proposed to be used at the Site to control soil erosion and sediment pollution are listed below. Details of BMPs proposed to be used at the Project location is included in the Erosion and Sedimentation Control Plan sheets. BMP's listed will be used at the Project location at the discretion of the environmental inspector, when found necessary to comply with 25 PA Code Chapter 102 and to adequately address potential erosion and sediment control issues.

Rock Construction Entrances

Rock construction entrances shall be installed whenever sediment tracking onto road surfaces is a potential or if required by the county conservation district or other agency. Soil erosion control measures shall be installed, if required and as needed. In special protection watersheds, either a 100’ long rock construction entrance or a standard 50’ rock construction entrance with a wash rack will be used at the construction entrance to wash construction vehicle wheels before they enter the public roadway. The wash rack will discharge to a 24” compost filter sock (min.). Rock construction entrance thickness shall be constantly maintained to the specified dimensions by adding rock. Sediment deposited on roadways shall be removed and returned to the construction site immediately.

Compost Filter Sock

Compost filter sock shall be placed downslope of disturbed areas to serve as a sediment barrier and filter. Filter sock shall be placed at existing level grade, parallel to contours, with both ends of the sock extended up slope at a 45-degree angle. Socks can be used on both steep and rocky slopes. Socks can range in size from 12-inch to 32-inch diameter depending on the site conditions. The Maximum Permissible Slope Lengths Above Compost Filter Socks will be used to determine the sizes of compost filter.

Compost Filter Sock Sediment Trap

Runoff may be directed into the Compost Filter Sock Sediment Traps of sheet flow into the trap. Compost sock sediment traps shall not exceed three socks in height and shall be stacked in pyramidal form. Minimum trap height is one 24” diameter sock. Additional storage may be provided by means of an excavated sump 12” deep extending 1 to 3 feet upslope of the socks along the lower side of the trap. The maximum tributary drainage area is 5.0 acres. Since compost socks are “flow-through,” no spillway is required. Installation of an excavated sump immediately above the socks may increase trap efficiency where soil conditions permit their construction.

Broad Based Dips

Broad-based dips may be used to direct runoff from access roads to well-vegetated areas. In HQ/EV watersheds, sump with compost filter sock should be utilized at the discharge end of the broad-based dip.

Waterbars

Waterbars will be aligned along the pipeline ROW to direct runoff towards the downslope side of the disturbed area and to avoid backflow into the ROW. Compost filter sock shall be installed along the edge of the limit of disturbance to slow run off. Compost filter sock hooks shall be installed at an upslope angle and shall discharge to a well-vegetated area. Upslope of the CFS, a sump shall be constructed to reduce velocity and provide a sheet flow condition to the CFS. Permanent waterbars within the ROW shall be left in place after permanent stabilization has been achieved.

Compost Filter Sock Waterbar Discharge / Waterbar Sump

An 18” Compost Filter Sock shall be installed at the edge of the LOD where waterbar cross the LOD. Upslope of the CFS a 24” x 24” sump shall be constructed to reduce velocity and provide a sheet flow condition to the CFS. The sump shall be filled and stabilized when the CFS is removed after site stabilization.

Diversion Channels / Mountable Berms

Diversion channels or mountable berms shall be used to divert runoff from disturbed areas and convey it to appropriate BMPs such as a sedimentation basin sediment trap or clean water crossing.

Trench Plug

These will be placed at the banks of waterbodies in order to maintain stable working conditions and keep sediment from entering the waterways. Earth filled sacks will be used to secure the plug. The spacing of these structures varies based on the site and the slope of the dig location, as indicated in the plan drawings.

Erosion Control Blankets

A suitable erosion control blanket or soil stabilizer shall be used wherever earth disturbance occurs within 50 feet of surface waters, or 100 feet if special protection water, especially if site conditions make use of conventional E&S BMPs difficult. Erosion control blankets should be used on finished slopes greater than 3:1.

Timber Mats

Timber mats can be used for temporary wetland crossings. The timber mats are placed over the wetland to allow equipment to cross and then are removed.

Temporary Equipment Bridges

A temporary bridge equipment crossing will be built in order to cross streams along the pipeline installation. The bridge equipment crossing will utilize geotextile material, timber mats, and a timber or metal bridge with side rails may include instream supports (where necessary). Culvert Equipment crossings may be used in areas where equipment must cross stream channels. Culverts shall be placed in the stream channel sized appropriately to convey the flow within the channel and shall be placed at least one-half their diameter apart. Coarse aggregate may be used for fill surrounding the culverts. Upon completion, material placed in the stream channel shall be completely removed.

Flumed Crossing/ Dam and Pump Crossing

These may be used when work is to be completed in a waterway. A flumed crossing involves the placement of a flume pipe within the waterway and using diversion structures up and down gradient to divert flow through the flume pipe and out of the work area. A dam and pump crossing involves placing sandbag barriers on the upstream and downstream sides of the work space to prevent water from entering the maintenance area. A pump shall be placed to move water from the upstream side, around the workspace and back to the downstream side of the work area. Trench plugs may be used on the banks of the stream to keep water from leaving the bed and banks limit of the waterway.

Pumped Water Filter Bag

Filter bags shall be placed in well-vegetated grassy areas and discharge onto stable, erosion resistant areas, and staked if the slope is greater than 5 percent. In the event that this is not possible, a geotextile path will be provided. A compost filter sock shall be placed below the filter bag when placed within 50 of streams or wetlands located within a HQ/EV watershed.

Trench Dewatering

Trench dewatering may be required, depending on the site conditions during the excavation. Water shall be pumped out and discharged into a filter bag or a dewatering structure when deemed necessary.

Safety Fence

Safety fence shall be installed to protect sensitive environmental features as depicted on the plan drawings. The fencing shall remain in place during phases of construction.

Siltron Pollution Prevention Fence

Siltron Pollution Prevention Fence may be used throughout the project where environmental features make it necessary in lieu of Compost Filter Sock (CFS). The site-specific sediment barriers will be selected by the environmental inspector on a site-by-site basis. These barriers will be placed at existing level grade, with both ends of the barrier extending at least 8' upslope at a 45 degree angle. Sediment must be removed when accumulations reach ½ the above ground height of the fence. The size and type of fence will be selected based on slope lengths as determined in the maximum slope length for Multi-Layer Geotextile Filter Fence figures. The 16-inch filter fence is equivalent to an 18-inch compost filter sock, the 21-inch filter fence is equivalent to a 24-inch compost filter sock, and a 28-inch filter fence is equivalent to a 32-inch compost filter sock. Approved for use as an Alternative E&S and PCSM BMP by PA DEP on 8/22/18.

Rock Filter Outlet

Rock filter outlets may be used to address areas where concentrated flows intersect sediment barriers. They may also be used in instances where sediment barriers such as silt fence or compost filter socks have failed due to concentrated flow.

Wetland Installation Procedures

During the course of pipeline maintenance and replacement within wetland areas, BMP's including slope breakers, equipment mats, sediment barriers, and trench plugs may be used to prevent altering the hydrology of the wetland and to prevent sediment from entering the wetland. Work within the wetland boundaries shall be limited to the extent possible. Upon completion of work the wetland area shall be restored to pre-construction grades and seeded with an appropriate wetland seed mixture.

Hydrostatic Dewatering Structure

A hydrostatic dewatering structure will be placed on a level, well vegetated site such that water will flow away from the structure and work areas. Flow rates through discharge and diverter pipes will be such that structures will not overflow. Contractor will properly remove and dispose of the dewatering structure immediately upon completion of dewatering operations.

Bored Road Crossing/Trenched Road Crossing

These may be used where pipeline installation or maintenance under a bored road is necessary. Sediment barriers shall be used around the work area. Culverts will be placed where required to maintain water flow for stormwater ditches.

Structural Level Spreader

Structural level spreaders are used to collect concentrated runoff in a plunge pool and distribute flow uniformly across a weir to a vegetative surface, such that the velocity of the flow is reduced and the risk of erosion is minimized.

Perforated Pipe Level Spreader

Perforated pipe level spreaders are used to distribute stormwater runoff to established vegetative surfaces as sheet flow using perforated pipes. The perforated pipe is placed subsurface within a gravel bed.

Sediment Trap Outlet Basin

Sediment trap outlet basins are used to an alternative to riprap aprons and are used at clean water crossing outfalls. The basin will help dissipate flows velocities before entering vegetated areas and/or receiving streams.

Riprap Apron

Riprap aprons may be used at pipe or channel outfalls. The aprons will help dissipate flow velocity before entering vegetated areas and/or receiving stream(s).

Clean Water Crossings

Temporary diversion channels or mountable berms shall be used to divert runoff from undisturbed upslope areas and convey the runoff around areas of earth disturbance within the pipeline ROW corridor. From the diversion, the flow will outlet to a temporary pipe(s) crossing, which is installed across the right-of-way, and discharge to an outlet basin or structural level spreader. Clean water leaving the outlet basin will return to sheet flow downslope of the disturbed ROW.

Revegetation Plan and Procedures

The construction site should be stabilized as soon as possible after completion. Establishment of final cover must be initiated no later than 7 days after reaching final grade. Temporary erosion and sedimentation control BMPs can be removed when the site meets final stabilization. Final stabilization means that soil-disturbing activities are completed, and that either a permanent vegetative cover with a density of 70% or greater has been established or that the surface has been stabilized by hard cover such as pavement or buildings. It should be noted that the 70% requirement refers to the total area vegetated and not just a percent of the site.

Surface Roughening

Surface roughening is the practice of providing a rough soil surface with horizontal depressions for the purpose of reducing runoff velocity, increasing infiltration, aiding the establishment of vegetation, and reducing erosion. Surface roughening should be applied to slopes 3H:1V or steeper unless a stable rock face is provided or it can be shown that there is not a potential for sediment pollution to surface waters. For roughened surfaces within 50 feet of a surface water, and where blanketing of seeded areas is proposed as the means to achieving permanent stabilization, spray-on type blankets are recommended.

Typical Topsoil Stockpile

The maximum topsoil stockpile height shall not exceed 35 feet. Stockpile slopes shall be no steeper than 2H:1V. Stockpiles shall be stabilized in accordance with temporary seeding specifications and mulch is to be maintained until the stockpile is stabilized. Stockpile location shown on the plans are illustrative and may vary in location as construction proceeds.

Typical Channel and Vegetation Restoration

The impacted riparian zone will be restored for a minimum of 15 feet landward of the top of bank. If the pre-impact riparian buffer of native herbaceous and shrub vegetation exceeds 15 feet beyond the top of bank, the area to be seeded should be as follows: 150 feet in High-Quality waters, 100 feet in other waters, or existing width of the riparian zone if it is less than the minimum requirements. Ernst Seed Mix 178 (Riparian Buffer Mix) or similar shall be applied on restored banks and riparian zones. In addition, where existing forested buffers are impacted these shall be replanted outside of the existing maintained ROW, as indicated in forest replanting plans for the Project outlined in the Chapter 105 permit.

7. Recycling and Disposal of Materials (NOI Checklist Item 3.k, 7.k)

The restoration of the pipeline right-of-way will require the removal of the temporary materials. The temporary materials include, but may not be limited to, stone surfaces and associated geotextiles. The contractors are required to dispose of the materials at suitable disposal or recycling sites and in compliance with local, state and federal regulations.

Contractors are required to inventory and manage their construction site materials. The goal is to be aware of the materials on-site, ensure they are properly maintained, used, and disposed of, and to make sure the materials are not exposed to stormwater. The following materials or substances are expected to be present on-site during construction (Note: this list is not an all-inclusive list and the materials management plan can be modified to address additional materials used on-site):

- Acids
- Detergents
- Fertilizers (nitrogen/phosphorus)
- Hydroseeding mixtures
- Petroleum based products
- Sanitary wastes
- Soil stabilization additives
- Solder
- Solvents

These materials must be stored as appropriate and shall not contact storm or non-stormwater discharges. Contractor shall provide a weatherproof container to store chemicals or erodible substances that must be kept on the site. Contractor is responsible for reading, maintaining, and making employees and subcontractors aware of Safety Data Sheets (SDSs).

8. Thermal Impacts (NOI Checklist Item 3.m, 7.m)

Due to the overall nature of the Project, thermal impacts to surface waters are not anticipated. The pipeline installation activities will primarily take place within an existing cleared and maintained pipeline right-of-way. There will be no increase in stormwater discharge. The primary means to address thermal impacts on this Project is to limit the size and duration of exposed earth. Revegetation procedures and the Sequence of Construction outline disturbed areas being immediately revegetated.

Stormwater runoff associated with the installation of the MLVs and Tie-ins will be routed through the stormwater BMP’s designed to retain and infiltrate the first surge of water from the site. The first surge of water will be the warmest water for the duration of the storm event and will quickly cool as the storm event progresses. The BMPs are designed to capture and infiltrate this warmest surge of stormwater. Based on routing calculations, stormwater is not discharged from the BMPs for the first 12 hours during a 100-year/24-hour storm event. The retention period is longer for less intense storms. Therefore, as a result of these measures, no significant thermal impact to the receiving waters is anticipated.

9. Antidegradation Requirements (NOI Checklist Item 3.p, 7.o)

Transco evaluated the feasibility of non-discharge alternatives that would be located outside of exceptional value (EV) or high-quality (HQ) watersheds. Hydraulic models were analyzed from an efficiency and effectiveness point of view to confirm and minimize the necessary pipeline lengths and diameters to meet the Project purpose and need. In order for the Project to meet the required purpose and need, siting the Regional Energy Lateral Pipeline outside of EV and HQ watersheds, is not feasible.

Therefore, Transco determined that there are no cost-effective and environmental sound viable non-discharge alternatives for the project. Transco has minimized project impacts to EV and HQ watersheds through the use of co-location with existing pipelines and protecting riparian buffers within the project workspace. Earth disturbance will be minimized to the extent practical and will be phased or sequenced to only disturbed portions that are necessary for the specific scope of work. Wherever possible, the LOD was decreased to avoid disturbing additional ground and will be kept to the minimum width and depth necessary to safely complete construction activities.

Anti-Degradation Best Available Combination of Technologies (ABACT) standards have been proposed for the Regional Energy Lateral Pipeline because there are no viable non-discharge alternatives. The Erosion and Sediment Control Plan prepared for the Project outlines a more stringent design and E&S BMPs that meet ABACT standards.

Pipeline installation activities along the pipeline ROW and at the contractor yards/staging areas will not result in increase in discharge of stormwater to surface waters. The existing / designated use of the streams within the Project area are to be protected through E&S and PCSM measures taken by Transco.

The MLV-515RA20, MLV-515RA30, Carverton Tie-in, Lower Demunds REL Tie-in, and Hildebrandt Tie-in/MLV-515RA40 sites will result in increased discharge of stormwater to surface waters which will be mitigated by the implementation of post-construction stormwater management (PCSM) BMP’s. Proposed PCSM BMPs are designed with stormwater volume reduction and water quality treatment maximized to the extent practicable within the site constraints to maintain and protect existing water quality and existing and designated uses.

10. Riparian Buffers (NOI Checklist Item 3.o, 7.n)

Pipeline installation will take place within an existing cleared and maintained pipeline ROW and forested areas. Due to the linear nature of the project, temporary impacts within riparian buffers are unavoidable. At locations where it was impossible to avoid riparian impacts due to safety issues, Transco will implement BMPs to minimize the impacts. After completing the construction activities, areas used for pipeline installation and as contractor yards/staging areas will be restored back to pre-existing contours and reseeded with a riparian seed mix in areas where slopes are less than 10%. The MLV-515RA20, MLV-515RA30, Carverton Tie-in, Lower Demunds REL Tie-in, and Hildebrandt Tie-in/MLV-515RA40 sites, where permanent increase in impervious area is proposed, were examined for riparian buffers. Riparian buffers were identified at MLV-515REL20 and BMPs were designed to minimize the impacts to this area. Tree and shrub plantings will occur in forested riparian buffers outside of the maintained ROW as outlined in riparian reforestation plans outlined in the Chapter 105 permit.

Linear projects including pipelines are eligible for the Riparian Buffer Waiver under 25 PA Code §102.14(d)(2)(ii) if riparian buffers are undisturbed to the extent practicable. As such, a Riparian Buffer Waiver has been requested along with this ESCGP-3 application (Section 1-7).

11. Project Site Runoff (NOI Checklist Item 3.d, 7.d)

Changes in project site runoff are not anticipated for the Project except at the MLV-515RA20, MLV-515RA30, Carverton Tie-in, Lower Demunds REL Tie-in, and Hildebrandt Tie-in/MLV-515RA40 sites where increases in impervious areas are proposed. The Project site is primarily existing and maintained pipeline right-of-way in meadow condition with a forested fringe. The ROW will be restored to meadow condition upon the completion of construction. Proposed BMPs were sized based on the maximum tributary drainage area anticipated during construction. An analysis of pre- and post-development stormwater runoff was performed for the valve yard and tie-in sites. The installation of the valves and associated access road will increase the volume of stormwater runoff due to the increase in the type and size of the impervious area. The contractor will construct stormwater BMPs to mitigate the increase in volume and peak rates associated with construction. Refer to the Post-Construction Stormwater Management (PCSM) Plan for additional information (Section 3 of this ESCGP-3 Application). Changes in stormwater runoff between pre- and post-development conditions for 2-year rainfall event and changes in peak discharge rates for 1-, 2-, 10-, 25-, 50- and 100-yr storms are given in the tables below.

11.1 MLV-515RA20

Pre- and Post-Construction Stormwater Volume for 2-yr Rainfall event

Pre-construction (cf)	Post-construction before BMPs (cf)	Post-construction after BMPs (cf)	Net (cf)
1,826	2,585	1,320	-506

Pre-Construction Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
2.42	3.51	6.82	9.39	11.88	14.91

Post-Construction Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
3.06	4.29	7.89	10.76	13.45	16.69

Post-Construction w/ BMPs Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
2.23	3.22	6.17	8.59	11.12	14.91

Difference between Pre-Construction and Post-Construction w/ BMPs

	1-year	2-year	10-year	25-year	50-year	100-year
NET Difference	-0.19	-0.29	-0.65	-0.80	-0.76	-0.00

11.2 MLV-515RA30

Pre- and Post-Construction Stormwater Volume for 2-yr Rainfall event

Pre-construction (cf)	Post-construction before BMPs (cf)	Post-construction after BMPs (cf)	Net (cf)
1,150	2,560	1,100	-50

Pre-Construction Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.09	0.22	0.68	1.10	1.52	2.06

Post-Construction Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.64	0.89	1.62	2.17	2.70	3.32

Post-Construction w/ BMPs Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.01	0.02	0.03	0.04	0.06	0.07

Difference between Pre-Construction and Post-Construction w/ BMPs

	1-year	2-year	10-year	25-year	50-year	100-year
NET Difference	-0.08	-0.20	-0.65	-1.06	-1.46	-1.99

11.3 Carverton Tie-in

Pre- and Post-Construction Stormwater Volume for 2-yr Rainfall event

Pre-construction (cf)	Post-construction before BMPs (cf)	Post-construction after BMPs (cf)	Net (cf)
946	1,417	137	-809

Pre-Construction Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.31	0.46	0.91	1.27	1.61	2.01

Post-Construction Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.56	0.74	1.24	1.61	1.96	2.37

Post-Construction w/ BMPs Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.00	0.00	0.00	0.00	0.00	0.00

Difference between Pre-Construction and Post-Construction w/ BMPs

	1-year	2-year	10-year	25-year	50-year	100-year
NET Difference	-0.31	-0.46	-0.91	-1.27	-1.61	-2.01

11.4 Lower Demunds Rel Tie-in

Pre- and Post-Construction Stormwater Volume for 2-yr Rainfall event

Pre-construction (cf)	Post-construction before BMPs (cf)	Post-construction after BMPs (cf)	Net (cf)
824	1,621	524	-300

Pre-Construction Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.15	0.20	0.40	0.56	0.71	0.89

yiPost-Construction Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.49	0.60	0.92	1.16	1.38	1.65

Post-Construction w/ BMPs Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.00	0.00	0.06	0.03	0.20	0.51

Difference between Pre-Construction and Post-Construction w/ BMPs

	1-year	2-year	10-year	25-year	50-year	100-year
NET Difference	-0.15	-0.20	-0.34	-0.53	-0.51	-0.38

11.5 Hildebrandt Tie-in/MLV-515RA40

Pre- and Post-Construction Stormwater Volume for 2-yr Rainfall event

Pre-construction (cf)	Post-construction before BMPs (cf)	Post-construction after BMPs (cf)	Net (cf)
1,445	2,970	750	-740

Pre-Construction Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.24	0.34	0.67	0.94	1.20	1.52

Post-Construction Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.86	1.04	1.62	2.06	2.47	2.96

Post-Construction w/ BMPs Peak Discharge Rates (cfs)

1-year	2-year	10-year	25-year	50-year	100-year
0.15	0.20	0.38	0.52	0.65	0.80

Difference between Pre-Construction and Post-Construction w/ BMPs

	1-year	2-year	10-year	25-year	50-year	100-year
NET Difference	-0.09	-0.14	-0.29	-0.42	-0.55	-0.72

12. Offsite Discharge Analysis

The stormwater BMP's being constructed along the REL Pipeline are in areas that will discharge stormwater to offsite non-surface water. These areas have been analyzed to reduce the likelihood that these discharges will be erosive to adjacent property owners. The analysis has been performed in accordance with PADEP Document 3150-FS-DEP4124, "Off-Site Discharges of Stormwaters to Areas That Are Not Surface Waters". The full analysis is presented in Attachment 4 – Offsite Discharge Report. A summary of the findings is presented below.

12.1 MLV-515RA20

The MLV-515RA20 site utilizes a dry extended detention pond. The outfall discharges water through the overflow spillway and it flows into the adjacent forested area located west of the Limits of Disturbance. The stormwater is discharged as sheet flow and travels along a vegetative flow path until it reaches a Bald Mountain Road culvert and then a delineated stream, S83-T2. Calculations provided for the project site runoff show a reduction in the post-construction discharge rates and volumes. The area downstream of the dry extended detention pond is over 90% vegetated. Additionally, the velocity coming out of the outfall protection for the 25-year 24-hour was calculated and found to be 0.1 fps. Since the outlet velocity is below 2.5 fps downstream erosion will be minimal if not negligible.

12.2 MLV-515RA30

The MLV-515RA30 site utilizes a vegetative swale. This vegetative swale discharges water through a rip-rap apron and it flows into the adjacent wetland and agricultural areas located southwest of the Limits of Disturbance. The stormwater is discharged as sheet flow and travels along a vegetative flow path until it reaches an unnamed blue line stream, upstream of the Susquehanna River. Calculations provided for the project site runoff show a reduction in the post-construction discharge rates and volumes. The area downstream of the vegetative swale is over 90% vegetated. Additionally, the velocity coming out of the outfall protection for the 25-year 24-hour was calculated and found to be 0.0 fps. Since the outlet velocity is below 2.5 fps downstream erosion will be minimal if not negligible.

12.3 Carverton Tie-in

The Carverton Tie-in site utilizes an infiltration berm. This infiltration berm discharges water, and it flows into the adjacent forested area located east of the Limits of Disturbance. The stormwater is being discharged as sheet flow and travels along a vegetative flow path until it reaches an unnamed blue line stream. Calculations provided for the project site runoff show a reduction in the post-construction discharge rates and volumes. The area downstream of the infiltration berm is over 90% vegetated. Additionally, the velocity coming out of the outfall protection for the 25-year 24-hour was calculated and found to be 0.4 fps. Since the outlet velocity is below 2.5 fps downstream erosion will be minimal if not negligible.

12.4 Lower Demunds Rel Tie-in and Hildebrandt Tie-in/MLV-515RA40

The Lower Demunds REL Tie-in and the Hildebrandt Tie-in/MLV-515RA40 sites each utilize subsurface infiltration beds. These subsurface infiltration beds are located beneath each gravel pad where water accumulates and flows away from the pads.

At the Lower Demunds REL Tie-in, the pad will be bermed around the exterior to retain stormwater for infiltration. An overflow spillway will be used to discharge excess flow to a level spreader on the east side of the pad. The stormwater is being discharged as sheet flow and travels along a vegetative flow path until it reaches a water collection pond. In the E&S and PCSM Narrative, site calculations are provided that show the Pre- and Post-Construction runoff flow rates and volume. These calculations show a reduction in the post-construction discharge rates and volumes. Calculations indicated that the discharge velocity at the proposed level spreader is 0.0 fps for the for the 25 year, 24-hour storm event. Since the outlet velocity is below 2.5 fps downstream erosion will be minimal if not negligible.

At Hildebrandt Tie-in/MLV-515RA40, the pad will be bermed around the exterior to retain stormwater for infiltration. An overflow spillway on the east side of the pad will be used to discharge excess flow to the diversion channel. The water will then be directed northwest to a level spreader where it is discharged as sheet flow and travels along a vegetative flow path until it reaches an unnamed blueline stream. In the E&S and PCSM Narrative, site calculations are provided that show the Pre- and Post-Construction runoff flow rates and volume. These calculations show a reduction in the post-construction discharge rates and volumes. Calculations indicated that the discharge velocity at the proposed level spreader is 0.0 fps for the for the 25 year, 24-hour storm event.

13. Site Restoration Plan

13.1 Previous Land Use

The Project sites are primarily existing and maintained pipeline right-of-way in meadow condition with a forested fringe. Using data taken from Google Earth and Multi-Resolution Land Characteristics (MRLC) Consortium website (https://www.mrlc.gov/viewer/), it appears that the Regional Energy Access Expansion sites have been an existing and maintained gas pipeline right-of-way for the past 20 years and will continue to be an existing and maintained gas pipeline right-of-way once the Project is complete. Based on the surrounding land characteristics, land use prior to ROW construction within the past 50 years likely would have been either forested land or meadow.

13.2 Disturbance Activities, Changes to Permanent Topographic Land Cover Along Pipeline Alignment

The Regional Energy Lateral component of the Project will consist of approximately 22.3 miles of 30-inch diameter pipeline, partially co-located with existing Transco Leidy Line-A, in Buck, Bear Creek, Plains, Jenkins, Kingston and Dallas Townships, and Laflin, Wyoming, and West Wyoming Boroughs, Luzerne County, Pennsylvania. The Regional Energy Lateral begins at existing Compressor Station 515 in Buck Township and continues westward to its terminus at Transco's existing Hildebrandt Tie-in/MLV-515RA40 in Dallas Township.

The work and disturbed areas are located within Transco property, existing easements, or legally obtained workspace where the past, present, and proposed land use is primarily an existing pipeline ROW. Along the edges of the ROW land use is primarily forested. The proposed contractor yard and staging areas will be used temporarily and subsequently removed after the completion of the Project. Staging areas will be used for parking, equipment turn-arounds, and temporary storage of equipment. Transco will use a contractor yard for parking, contractor offices, and the storage of construction equipment and pipes. This contactor yard consists of an agricultural field. Disturbed areas within these temporary workspaces will be restored to the original contours. In addition to the E&S BMP measures listed in Section 6.0 Transco will use and implement the following practices, measures, and details to control soil erosion and off-site sedimentation during construction.

13.3 Restoration Measures

Pipeline components of the Project will take place within or adjacent to a previously disturbed pipeline ROW. Stormwater controls which will be installed during construction have been designed to avoid impacts to natural drainage features. These controls will only have temporary impacts while installed and will be removed once the site is stabilized with vegetation. Minimal impacts to wetland resources are anticipated, as these functions are generally limited when compared to watercourses. The Regional Energy Access Expansion workspaces will be restored by to pre-construction contours.

Cleanup operations will commence immediately following backfill operations. Final grading, topsoil replacement, and installation of permanent erosion control structures will be completed within 20 days after backfilling the trench (10 days in residential areas). Construction debris will be removed from construction work areas unless the landowner or land managing agency approves leaving materials onsite for beneficial reuse, stabilization, or habitat restoration. Rock in excess of four inches from at least the top 12 inches of soil in cultivated or rotated cropland, managed pastures, hayfields, and residential areas, as well as other areas will be removed at the landowner's request. Construction right-of-way will be graded to restore pre-construction contours and leave the soil in the proper condition for planting. Temporary sediment barriers will be removed and replaced by permanent erosion control measures or when revegetation is successful.

Wetland Restoration Procedures

The wetlands will be revegetated with annual ryegrass at 40 lbs / acre pure live seed and with the recommended wetland seed mix, unless standing water is present. Lime, fertilizer or mulch will not be used in wetland areas. In the event that final seeding and mulching is deferred more than 20 days after the trench is backfilled, slopes adjacent to wetlands shall be blanketed for a minimum of 100 feet on each side of the crossing.

Specific procedures will be developed in coordination with the appropriate land management or state agency, where necessary, to prevent the invasion or spread of undesirable exotic vegetation (such as purple loose strife and phragmites). Disturbed areas will be re-vegetated.

Equipment mats will be removed upon completion of construction, as well as temporary sediment barriers located at the boundary between wetland and adjacent upland areas after upland revegetation and stabilization of adjacent upland areas are successful.

Permanent Erosion Control Measures

Trench plugs are intended to slow the flow of subsurface water along the trench. Trench plugs may be constructed of materials such as sandbags or polyurethane foam. Do not use topsoil in trench breakers. At a minimum, install a trench breaker at the base of slopes greater than 5 percent where the base of the slope is less than 50 feet from a waterbody or wetland and where needed to avoid draining a waterbody or wetland. Trench breakers will be installed in wetlands to prevent water from traveling along the trench and altering micro-watersheds within the wetlands.

Waterbars are intended to reduce runoff velocity, divert water and prevent sediment deposition into sensitive resources. Waterbars shall be constructed using spacing recommendations outlined below. In the absence of written recommendations, use the following spacing unless closer spacing is necessary to avoid excessive erosion on the construction right-of-way:

Slope (%)	Spacing (feet)
<5	250
5-15	150
>15-30	100
>30	50

Waterbars will be constructed to divert surface flow to a stable area without causing water to pool or erode behind the breaker. In the absence of a stable area, construct appropriate energy-dissipating devices at the end of the waterbar.

Soil Compaction Measures

Topsoil and subsoil will be tested for compaction at regular intervals in agricultural and residential areas disturbed by construction activities. Tests will be conducted on the same soil type under similar moisture conditions in undisturbed areas to approximate preconstruction conditions. Penetrometers or other appropriate devices will be used to conduct tests.

Severely compacted agricultural areas will be plowed with a paraplow or other deep tillage implement. In areas where topsoil has been segregated, plow the subsoil before replacing the segregated topsoil. If subsequent construction and cleanup activities result in further compaction, conduct additional tilling. Refer to the Transco Project-specific Agricultural Construction and Monitoring Plan. Appropriate soil compaction mitigation will be performed in severely compacted residential areas.

Revegetation Plan and Procedures

The construction site should be stabilized as soon as possible after completion. Establishment of final cover must be initiated no later than 7 days after reaching final grade. Temporary erosion and sedimentation control BMPs can be removed when the site meets final stabilization. Final stabilization means that soil-disturbing activities are completed, and that either a permanent vegetative cover with a density of 70% or greater has been established or that the surface has been stabilized by hard cover such as pavement or buildings. It should be noted that the 70% requirement refers to the total area vegetated and not just a percent of the site.

Surface Roughening

Surface roughening is the practice of providing a rough soil surface with horizontal depressions for the purpose of reducing runoff velocity, increasing infiltration, aiding the establishment of vegetation, and reducing erosion. Surface roughening should be applied to slopes 3H:1V or steeper unless a stable rock face is provided or it can be shown that there is not a potential for sediment pollution to surface waters. For roughened surfaces within 50 feet of a surface water, and where blanketing of seeded areas is proposed as the means to achieving permanent stabilization, spray-on type blankets are recommended.

Typical Channel and Vegetation Restoration

The impacted riparian zone will be restored for a minimum of 15 feet landward of the top of bank. If the pre-impact riparian buffer of native herbaceous and shrub vegetation exceeds 15 feet beyond the top of bank, the area to be seeded should be as follows: 150 feet or the existing width of the riparian zone if it is less than the minimum requirements. Ernst Seed Mix 178 (Riparian Buffer Mix) or similar shall be applied on restored banks and riparian zones. In addition, where existing forested buffers are impacted these shall be replanted outside of the existing maintained ROW, as indicated in forest replanting plans for the Project outlined in the Chapter 105 permit.

13.4 Maintenance and Evaluation for Effectiveness

Follow-up inspections of disturbed areas will be conducted as necessary, to determine the success of revegetation and address landowner concerns. At a minimum, conduct inspections after the first and second growing seasons. Revegetation in non-agricultural areas shall be considered successful if upon visual survey the density and cover of non-nuisance vegetation are similar in density and cover to adjacent undisturbed lands. In agricultural areas, revegetation shall be considered successful when upon visual survey, crop growth and vigor are similar to adjacent undisturbed portions of the same field, unless the easement agreement specifies otherwise. Continue revegetation efforts until revegetation is successful.

PCSM BMPs should be properly maintained to ensure their effectiveness. Sheet flow conditions and infiltration must be sustained throughout the life of the BMP. BMPs should be inspected for clogging from sediment of debris, damage by foot or vehicular traffic, and flow channelization. Inspections should be made on a quarterly basis for the first two years following installation, and then twice per year thereafter. Inspections should also be made after every storm event greater than 1 inch during the establishment period.

Channel linings should be inspected for signs of erosion or dislodging, as applicable. Channels should be inspected for debris, overgrown vegetation, and other blockages. Vegetated areas will be inspected weekly and after runoff events until permanent vegetation is achieved. Once the vegetation is established, inspections of health, diversity, and density should be performed at least twice per year, during both the growing and non-growing season. Vegetative cover should be sustained at 85% and reestablished if damage greater than 50% is observed. Damaged BMPs will be repaired as soon as possible upon discovery. Repairs will be made to restore to BMPs to the original design condition.

Drainage and irrigation systems problems resulting from pipeline construction in agricultural areas will be monitored and corrected until restoration is successful. Restoration will be considered successful when the surface condition is similar to adjacent undisturbed lands, construction debris is removed, revegetation is successful, and proper drainage has been restored.

Vegetated areas will be inspected weekly and after runoff events until permanent vegetation is achieved. Once the vegetation is established, inspections of health, diversity, and density should be performed at least twice per year, during both the growing and non-growing season. Vegetative cover should be sustained at 85% and reestablished if damage greater than 50% is observed. Damaged BMPs will be repaired as soon as possible upon discovery. Repairs will be made to restore damaged BMPs to the original design condition.

Maintenance activities on the vegetated swale should be done annually and within 48 hours after every major storm event (> 1-inch rainfall depth). Erosion problems, damage to vegetation, sediment and debris accumulation, uniformity of in cross-section and pools of standing water should be inspected.

Routine vegetation mowing or clearing over the full width of the permanent right-of-way in uplands will not be done more frequently than every three years. Transco will limit routine vegetation mowing or clearing within wetlands and adjacent to waterbodies. A 10-foot-wide herbaceous corridor will be maintained over the center of the pipeline within the wetland and riparian buffer areas. Trees and other woody vegetation will also be allowed to reestablish naturally within the construction ROWs that were cleared for construction of the pipeline. However, trees within 15 feet of the centerline and between existing pipelines will be removed to maintain the integrity of the pipeline. In no case will routine vegetation mowing or clearing occur during the migratory bird nesting season between April 15 and August 1 unless specifically approved in writing by the responsible land management agency or the U.S. Fish and Wildlife Service. Transco will not use herbicides or pesticides in or within 100 feet of a waterbody except as allowed by the appropriate land management or state agency.

Efforts to control unauthorized off-road vehicle use, in cooperation with the landowner, shall continue throughout the life of the project. Maintain signs, gates, and permanent access roads as necessary.

Wetlands and waterbodies will be protected through use of waterbars, diversion/collection channels, trench plugs, and erosion control blankets. Broad-based dips may be used to direct runoff from access roads to well-vegetated areas. In HQ/EV watersheds, sump with compost filter sock should be utilized at the discharge end of the waterbar. Diversion channels shall be used to divert runoff from disturbed areas and convey it to appropriate BMPs such as a sedimentation basin sediment trap or clean water crossing. These will be placed at the banks of waterbodies in order to maintain stable working conditions and keep sediment from entering the waterways. Earth filled sacks will be used to secure the plug. The spacing of these structures varies based on the site and the slope of the dig location, as indicated in the plan drawings. A suitable erosion control blanket or soil stabilizer shall be used wherever earth disturbance occurs in close proximity of surface waters especially if site conditions make use of conventional E&S BMPs difficult. Erosion control blankets should be used on finished slopes greater than 3:1.

Post-Construction Wetland and Watercourse Monitoring shall occur annually for a period of five years following construction and include wetlands and watercourses impacted by the Project, and a monitoring report submitted thereafter. Each monitoring report will include, at a minimum, the following information:

- Information describing the presence or absence of hydrology at the time of inspection and a narrative comparison to hydrology present in the wetland or watercourse during pre-permitting field investigation(s);
- Photographic Documentation;
- Vegetation data including inventory of plant species, percent coverage of native hydrophytic species (wetlands), and stem counts survival; and,
- Identification of problems or concerns that require remedial measures, including loss of hydrology, and a plan to address the deficiencies.

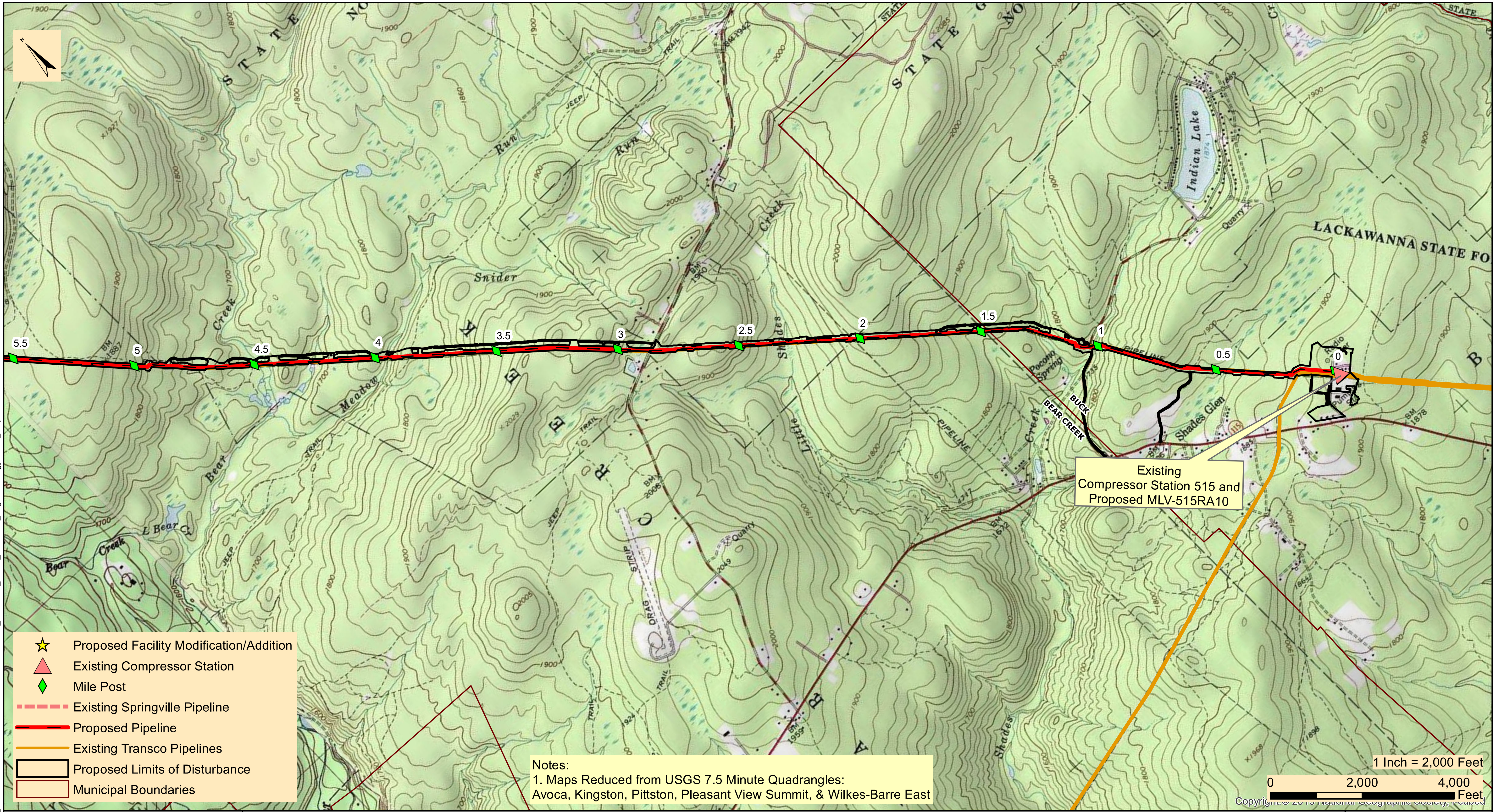
Contractor shall provide a weatherproof container to store chemicals or erodible substances that must be kept on the site. Contractor is responsible for reading, maintaining, and making employees and subcontractors aware of Safety Data Sheets (SDSs).

14. Erosion and Sediment Control Plan Shall be Prepared by a Person Trained and Experienced in Erosion Control Methods and Techniques

These plans and narrative were prepared by Kevin C. Clark, PE (BAI Group, LLC) of State College, PA in accordance with the Pennsylvania Department of Environmental Protection Erosion and Sediment Pollution Control Program Manual, March 2012. Plan preparer's resume is provided in Attachment C of the ESCGP-3 permit package).

ATTACHMENT 1

PROJECT LOCATION MAP



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Williams®

TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC

REGIONAL ENERGY ACCESS EXPANSION PROJECT

PROPOSED 30" REGIONAL ENERGY LATERAL

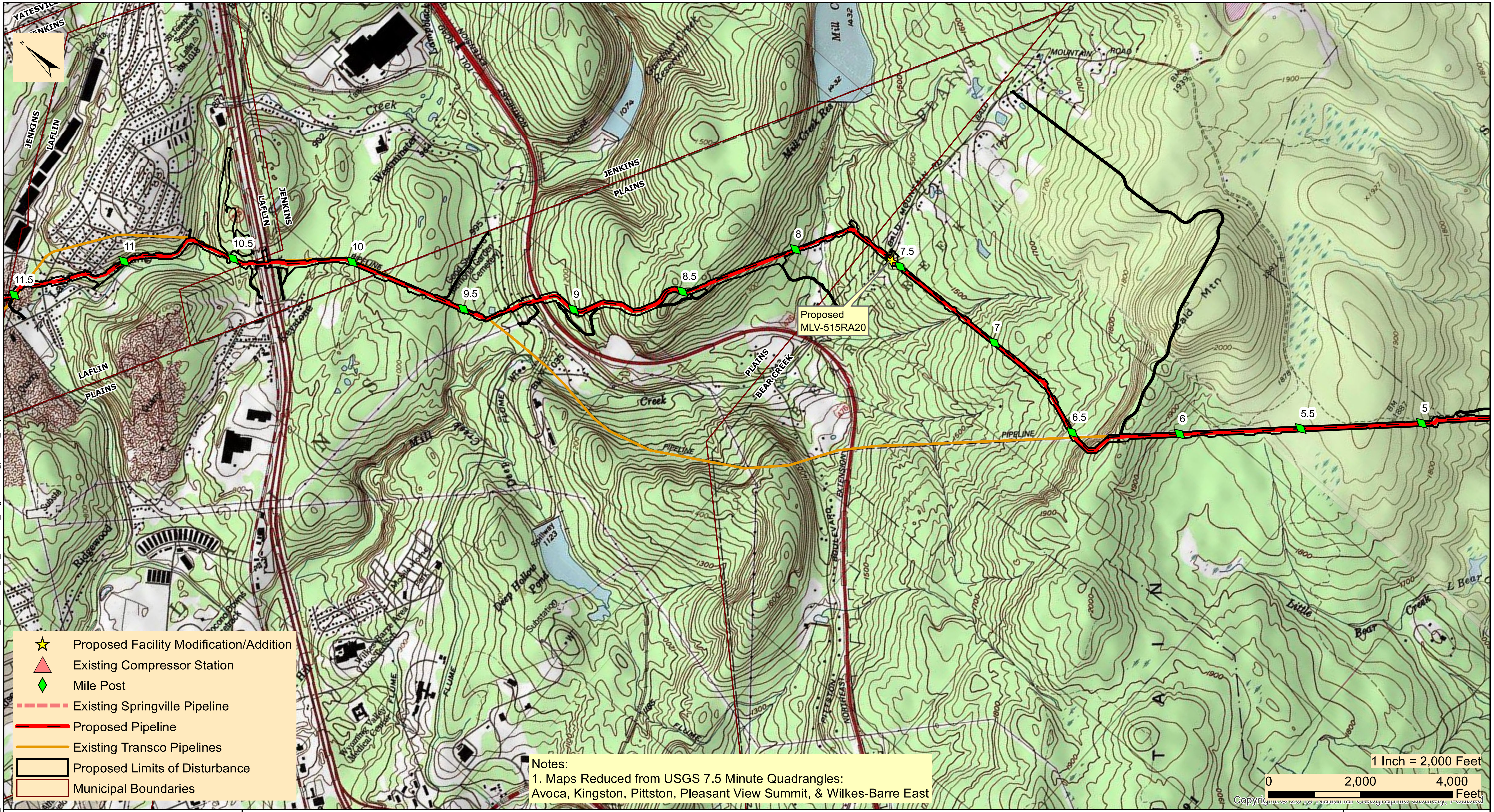
PROJECT LOCATION MAP

BUCK & BEAR CREEK TOWNSHIPS	LUZERNE COUNTY	PENNSYLVANIA

Date: 3/26/2021

Drawn By: FTN

Figure Number: REL-1



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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC

REGIONAL ENERGY ACCESS EXPANSION PROJECT

PROPOSED 30" REGIONAL ENERGY LATERAL

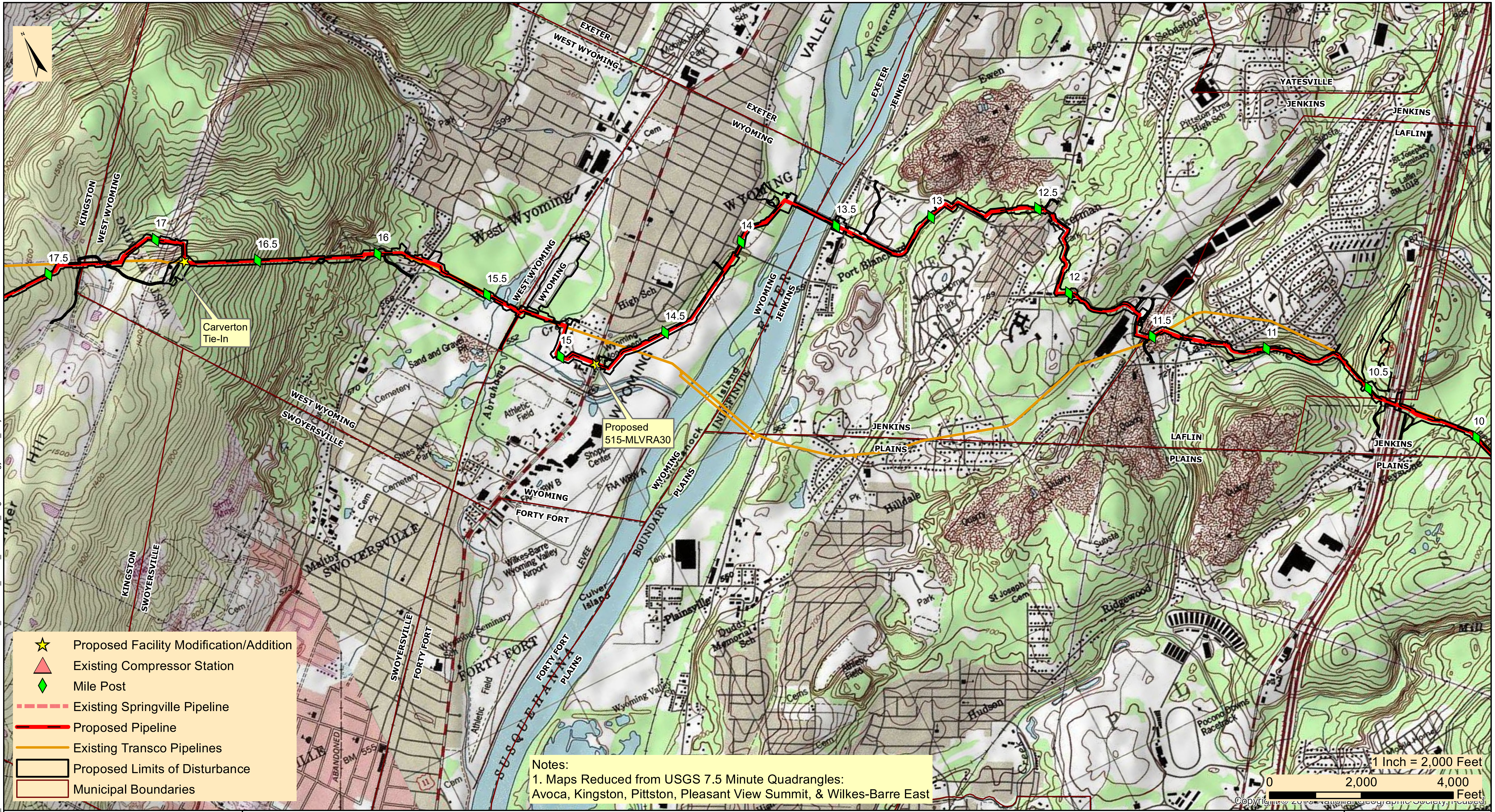
PROJECT LOCATION MAP

BEAR CREEK, JENKINS, PLAINS TWPS, & LAFLIN BOROUGH | LUZERNE COUNTY | PENNSYLVANIA

Date: 3/26/2021

Drawn By: FTN

Figure Number: REL-2



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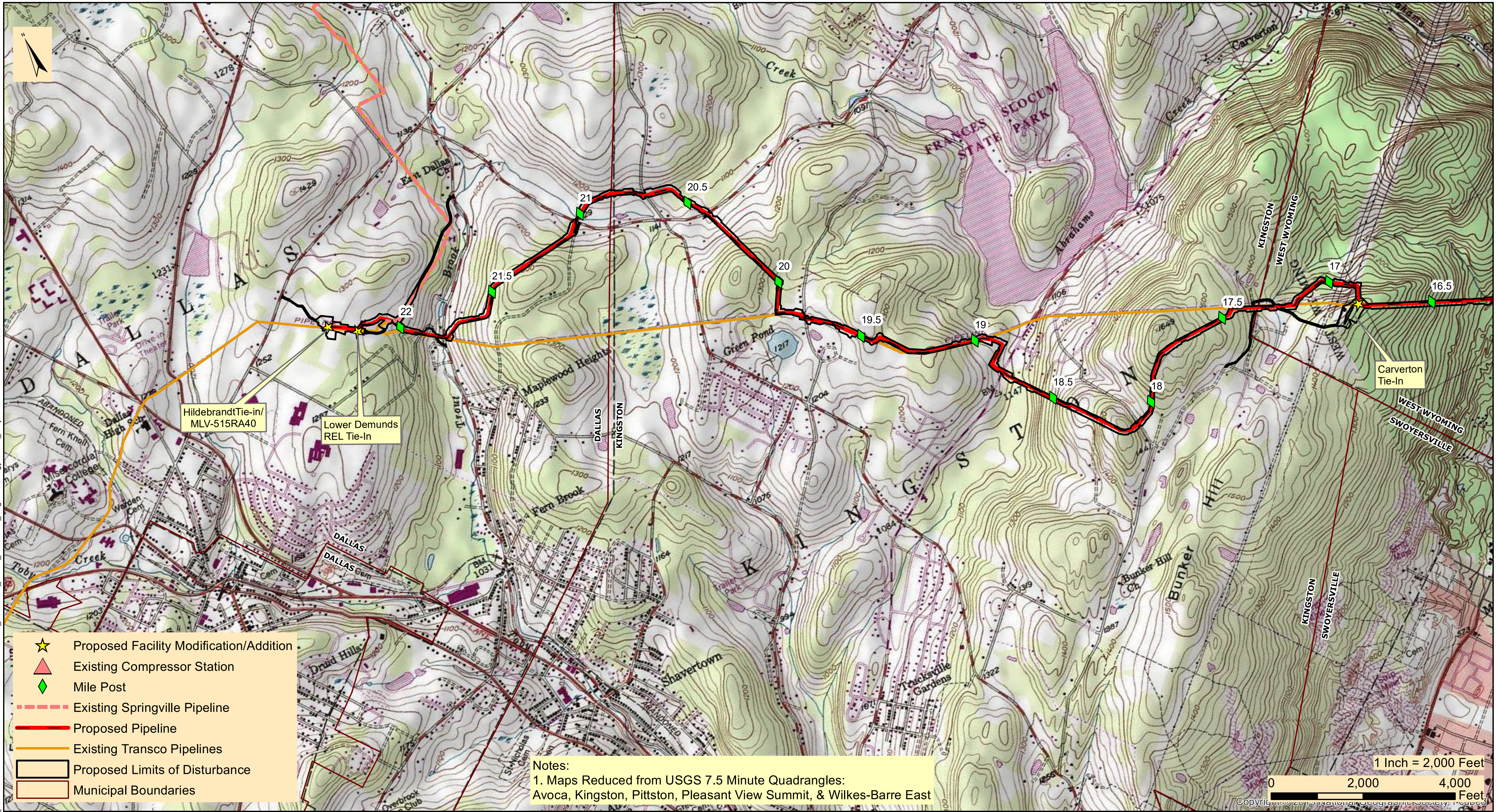
TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
REGIONAL ENERGY ACCESS EXPANSION PROJECT
PROPOSED 30" REGIONAL ENERGY LATERAL

PROJECT LOCATION MAP

Date: 3/26/2021
Drawn By: FTN
Figure Number: REL-3

KINGSTON, JENKINS, WEST WYOMING, WYOMING, & LAFLIN | LUZERNE COUNTY | PENNSYLVANIA



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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC

REGIONAL ENERGY ACCESS EXPANSION PROJECT

PROPOSED 30" REGIONAL ENERGY LATERAL

PROJECT LOCATION MAP

DALLAS, KINGSTON, & WEST WYOMING TOWNSHIP | LUZERNE COUNTY | PENNSYLVANIA

Date: 3/26/2021

Drawn By: FTN

Figure Number: REL-4

ATTACHMENT 2
SOILS MAP AND REPORT

United States Department of Agriculture

NRCS

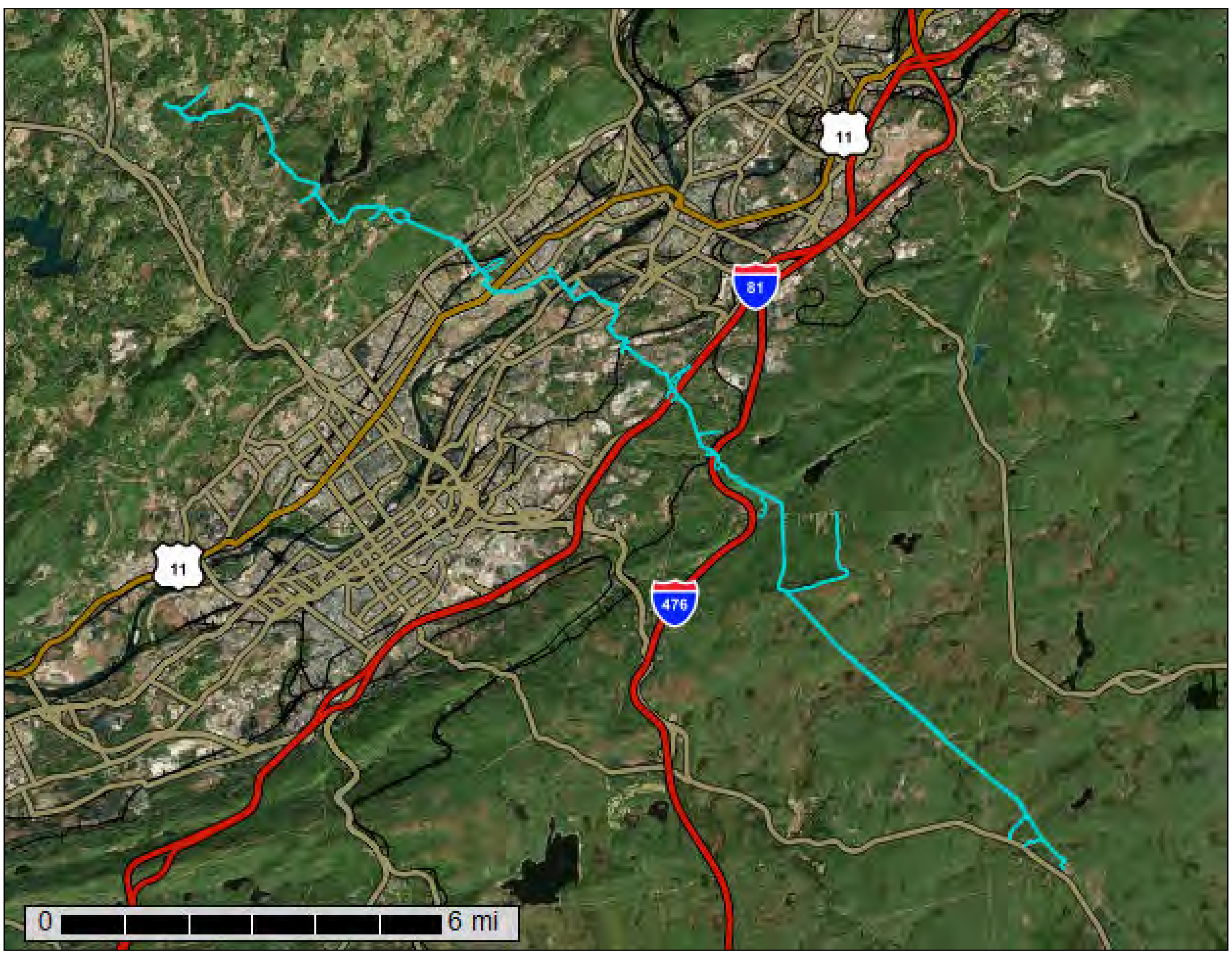
Natural Resources Conservation Service

A product of the National Cooperative Soil Survey, a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local participants

Custom Soil Resource Report for

Luzerne County, Pennsylvania

REL



December 2, 2020

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (https://offices.sc.egov.usda.gov/locator/app?agency=nrcs) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at (202) 720-2600 (voice and TDD). To file a complaint of discrimination, write to USDA, Director, Office of Civil Rights, 1400 Independence Avenue, S.W., Washington, D.C. 20250-9410 or call (800) 795-3272 (voice) or (202) 720-6382 (TDD). USDA is an equal opportunity provider and employer.

Contents

How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

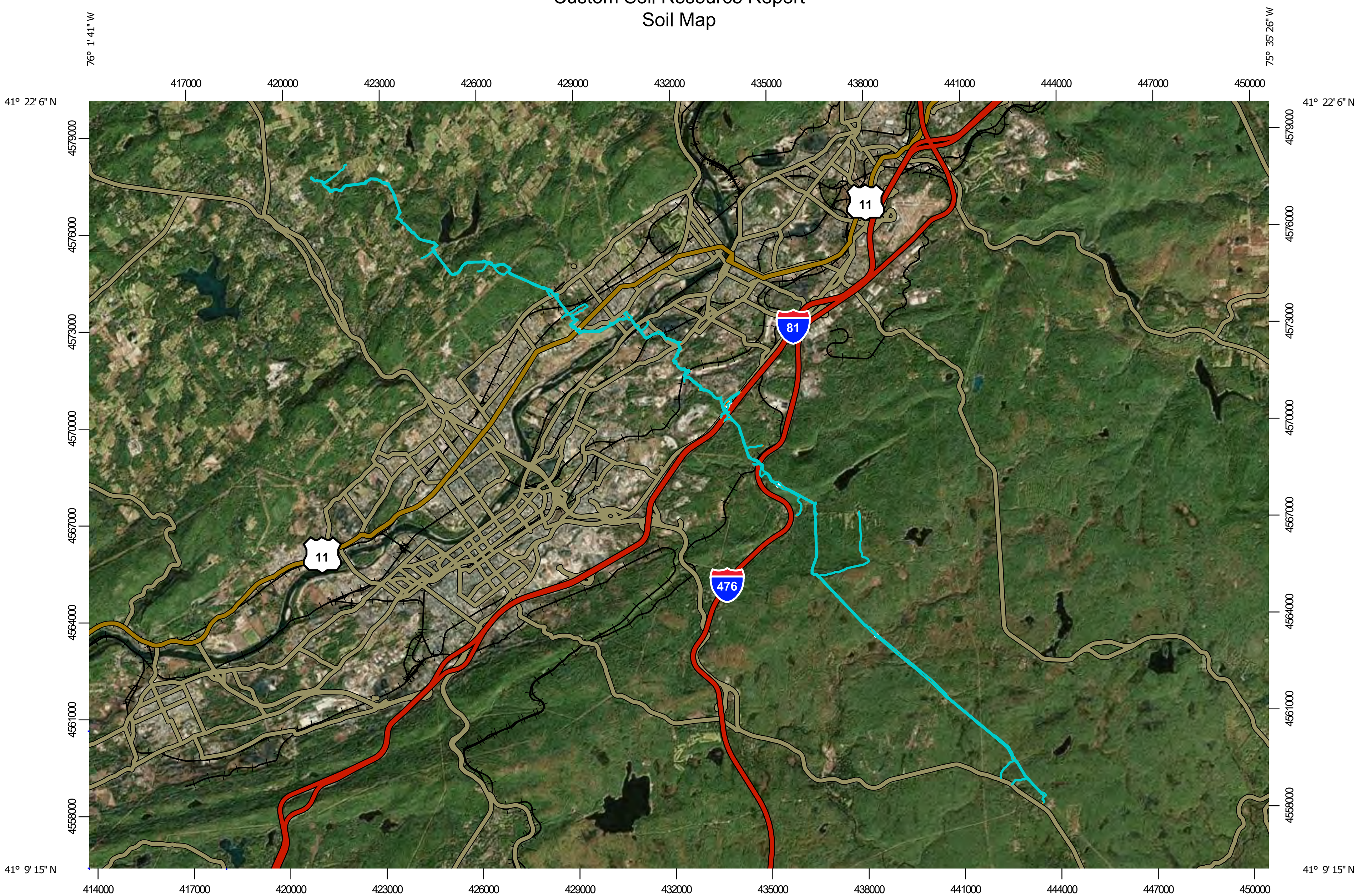
Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.

Custom Soil Resource Report
Soil Map



Map Scale: 1:168,000 if printed on A landscape (11" x 8.5") sheet.

Meters: 0, 2000, 4000, 8000, 12000

Feet: 0, 5000, 10000, 20000, 30000

N

Map projection: Web Mercator Corner coordinates: WGS84 Edge tics: UTM Zone 18N WGS84

MAP LEGEND

Area of Interest (AOI)

- Area of Interest (AOI)

Soils

- Soil Map Unit Polygons
- Soil Map Unit Lines
- Soil Map Unit Points

Special Point Features

- Blowout
- Borrow Pit
- Clay Spot
- Closed Depression
- Gravel Pit
- Gravelly Spot
- Landfill
- Lava Flow
- Marsh or swamp
- Mine or Quarry
- Miscellaneous Water
- Perennial Water
- Rock Outcrop
- Saline Spot
- Sandy Spot
- Severely Eroded Spot
- Sinkhole
- Slide or Slip
- Sodic Spot
- Spoil Area
- Stony Spot
- Very Stony Spot
- Wet Spot
- Other
- Special Line Features

Water Features

- Streams and Canals

Transportation

- Rails
- Interstate Highways
- US Routes
- Major Roads
- Local Roads

Background

- Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:20,000.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service
Web Soil Survey URL:
Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Luzerne County, Pennsylvania
Survey Area Data: Version 15, Jun 5, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Jan 1, 1999—Dec 31, 2003

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Ag	Alluvial land	1.3	0.3%
ArB	Arnot-Rock outcrop complex, 0 to 8 percent slopes	9.5	2.3%
ArD	Arnot-Rock outcrop complex, 8 to 25 percent slopes	18.4	4.4%
ASF	Arnot-Rock outcrop complex, steep	30.0	7.2%
At	Atherton silt loam, gray subsoil variant	0.0	0.0%
Bf	Basher soils	0.4	0.1%
BrC	Braceville gravelly loam, 8 to 15 percent slopes	3.0	0.7%
CF	Cut and fill land	2.0	0.5%
ChA	Chenango gravelly loam, 0 to 3 percent slopes	1.9	0.4%
ChB	Chenango gravelly loam, 3 to 8 percent slopes	8.8	2.1%
ChC	Chenango gravelly loam, 8 to 15 percent slopes	2.4	0.6%
ClA	Chippewa silt loam, 0 to 3 percent slopes	2.3	0.6%
CnB	Chippewa silt loam, 0 to 8 percent slopes, extremely stony	3.0	0.7%
DdD	Dekalb channery sandy loam, 8 to 25 percent slopes, rubbly	1.4	0.3%
DEF	Dekalb extremely stony sandy loam, steep	1.2	0.3%
GP	Gravel pits	4.6	1.1%
Ho	Holly silt loam	7.3	1.8%
LaC	Lackawanna channery silt loam, 8 to 15 percent slopes	1.5	0.4%
LaD	Lackawanna channery silt loam, 15 to 25 percent slopes	0.6	0.1%
LcB	Lackawanna channery silt loam, 3 to 8 percent slopes, extremely stony	4.5	1.1%
LcD	Lackawanna channery silt loam, 8 to 25 percent slopes, extremely stony	9.3	2.2%
LEF	Lackawanna and Bath soils, steep, extremely stony	6.3	1.5%
Ln	Linden soils	0.5	0.1%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
McB	Mardin channery silt loam, 3 to 8 percent slopes, very stony	3.2	0.8%
McD	Mardin channery silt loam, 8 to 25 percent slopes, very stony	1.1	0.3%
Mg	Mine dump	22.0	5.3%
Mh	Mine dump, burned	1.2	0.3%
Mm	Mine wash	2.7	0.6%
MoB	Morris channery silt loam, 0 to 8 percent slopes	1.9	0.4%
MsB	Morris channery silt loam, 0 to 8 percent slopes, extremely stony	13.3	3.2%
Mu	Muck	0.9	0.2%
OlB	Oquaga and Lordstown channery silt loams, 3 to 8 percent slopes	4.7	1.1%
OlC	Oquaga and Lordstown channery silt loams, 8 to 15 percent slopes	12.0	2.9%
OlD	Oquaga and Lordstown channery silt loams, 15 to 25 percent slopes	3.6	0.9%
OpB	Oquaga and Lordstown extremely stony silt loams, 3 to 8 percent slopes	11.7	2.8%
OpD	Oquaga and Lordstown extremely stony silt loams, 8 to 25 percent slopes	46.2	11.1%
OXF	Oquaga and Lordstown extremely stony silt loams steep	19.3	4.6%
Ps	Pope soils	25.7	6.1%
Qu	Quarries and mines	0.7	0.2%
RdA	Rexford loam, 0 to 3 percent slopes	0.3	0.1%
RdB	Rexford loam, 3 to 8 percent slopes	2.1	0.5%
Sm	Strip mine	20.9	5.0%
VoB	Volusia channery silt loam, 0 to 8 percent slopes	0.5	0.1%
VrB	Volusia channery silt loam, 0 to 8 percent slopes, extremely stony	7.8	1.9%
VrC	Volusia channery silt loam, 8 to 15 percent slopes, extremely stony	6.2	1.5%
W	Water	1.5	0.4%
Wa	Wayland silt loam	0.6	0.1%

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
WeB	Weikert and Klinesville channery silt loams, 3 to 8 percent slopes	0.6	0.1%
WeD	Weikert and Klinesville channery silt loams, 15 to 25 percent slopes	0.1	0.0%
WlB	Wellsboro channery silt loam, 3 to 8 percent slopes	4.7	1.1%
WlC	Wellsboro channery silt loam, 8 to 15 percent slopes	11.1	2.6%
WlD	Wellsboro channery silt loam, 15 to 25 percent slopes	3.8	0.9%
WmB	Wellsboro channery silt loam, 3 to 8 percent slopes, extremely stony	41.3	9.9%
WmD	Wellsboro channery silt loam, 8 to 25 percent slopes, extremely stony	10.6	2.5%
WrB	Wurtsboro channery loam, 3 to 8 percent slopes	4.7	1.1%
WrC	Wurtsboro channery loam, 8 to 15 percent slopes	3.0	0.7%
WtB	Wurtsboro extremely stony loam, 3 to 8 percent slopes	1.6	0.4%
WtD	Wurtsboro extremely stony loam, 8 to 25 percent slopes	4.9	1.2%
WyD	Wyoming gravelly loam, 15 to 25 percent slopes	0.8	0.2%
WyF	Wyoming gravelly loam, 25 to 60 percent slopes	0.7	0.2%
Totals for Area of Interest		**418.0**	**100.0%**

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

Luzerne County, Pennsylvania

Ag—Alluvial land

Map Unit Setting

National map unit symbol: 9yff
Elevation: 200 to 1,000 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 45 to 55 degrees F
Frost-free period: 130 to 200 days
Farmland classification: Not prime farmland

Map Unit Composition

Fluvents, (alluvial land), and similar soils: 80 percent
Holly and similar soils: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Fluvents, (alluvial Land)

Setting

Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Alluvium

Typical profile

H1 - 0 to 6 inches: gravelly sandy loam
H2 - 6 to 42 inches: sandy loam
H3 - 42 to 60 inches: silt loam

Properties and qualities

Slope: 0 to 5 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 18 to 48 inches
Frequency of flooding: FrequentNone
Frequency of ponding: None
Available water capacity: Low (about 6.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

Description of Holly

Setting

Landform: Backswamps, depressions on flood plains
Landform position (two-dimensional): Toeslope

Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy alluvium derived from sandstone and shale

Typical profile

H1 - 0 to 5 inches: silt loam
H2 - 5 to 28 inches: silt loam
H3 - 28 to 43 inches: silt loam
H4 - 43 to 60 inches: stratified gravelly sand to silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: FrequentNone
Frequency of ponding: Occasional
Available water capacity: High (about 9.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: B/D
Hydric soil rating: Yes

ArB—Arnot-Rock outcrop complex, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2wbmw
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Arnot, extremely stony, and similar soils: 60 percent
Rock outcrop: 30 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Arnot, Extremely Stony

Setting

Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, summit

Landform position (three-dimensional): Mountaintop, mountainflank, crest, nose slope, interfluve
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Typical profile
Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: very channery silt loam
Bw1 - 3 to 12 inches: very channery silt loam
Bw2 - 12 to 17 inches: very channery silt loam
2R - 17 to 27 inches: bedrock

Properties and qualities
Slope: 0 to 8 percent
Surface area covered with cobbles, stones or boulders: 10.0 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Very low (about 2.2 inches)

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: D
Ecological site: F140XY023NY - Shallow Till Uplands
Hydric soil rating: No

Description of Rock Outcrop

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydric soil rating: No

Minor Components

Lordstown, very stony
Percent of map unit: 10 percent
Landform: Hills, mountains
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Mountainflank, crest, nose slope
Down-slope shape: Convex
Across-slope shape: Linear
Hydric soil rating: No

ArD—Arnot-Rock outcrop complex, 8 to 25 percent slopes

Map Unit Setting

National map unit symbol: 2wbn0
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Arnot, rubbly, and similar soils: 50 percent
Rock outcrop: 35 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Arnot, Rubbly

Setting

Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Mountaintop, mountainflank, crest, nose slope, side slope
Down-slope shape: Convex, linear
Across-slope shape: Linear
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: very channery silt loam
Bw1 - 3 to 12 inches: very channery silt loam
Bw2 - 12 to 17 inches: very channery silt loam
2R - 17 to 27 inches: bedrock

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 15.0 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: F140XY023NY - Shallow Till Uplands
Hydric soil rating: No

Description of Rock Outcrop

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydric soil rating: No

Minor Components

Oquaga, rubbly

Percent of map unit: 10 percent
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, summit, backslope
Landform position (three-dimensional): Mountaintop, upper third of mountainflank, side slope, crest, nose slope
Down-slope shape: Convex, linear
Across-slope shape: Linear
Hydric soil rating: No

Wellsboro, extremely stony

Percent of map unit: 5 percent
Landform: Mountains, hills
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

ASF—Arnot-Rock outcrop complex, steep

Map Unit Setting

National map unit symbol: 2wbn4
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Arnot, rubbly, and similar soils: 50 percent
Rock outcrop: 30 percent
Minor components: 20 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Arnot, Rubbly

Setting

Landform: Mountains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountaintop, mountainflank, free face, free face, nose slope, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy till derived mainly from acid sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: very channery silt loam
Bw1 - 3 to 12 inches: very channery silt loam
Bw2 - 12 to 17 inches: very channery silt loam
2R - 17 to 27 inches: bedrock

Properties and qualities

Slope: 25 to 70 percent
Surface area covered with cobbles, stones or boulders: 15.0 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Somewhat excessively drained
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.14 to 1.42 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Maximum salinity: Nonsaline (0.0 to 1.9 mmhos/cm)
Available water capacity: Very low (about 2.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: F140XY023NY - Shallow Till Uplands
Hydric soil rating: No

Description of Rock Outcrop

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8
Hydric soil rating: No

Minor Components

Cadosia, very stony

Percent of map unit: 10 percent
Landform: Ridges
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Concave
Across-slope shape: Linear

Hydric soil rating: No

Oquaga, rubbly

Percent of map unit: 10 percent
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, summit, backslope
Landform position (three-dimensional): Mountaintop, upper third of mountainflank, side slope, crest, nose slope
Down-slope shape: Convex, linear
Across-slope shape: Linear
Hydric soil rating: No

At—Atherton silt loam, gray subsoil variant

Map Unit Setting

National map unit symbol: 9yfl
Elevation: 50 to 1,500 feet
Mean annual precipitation: 30 to 56 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 120 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Atherton, gray subsoil variant, and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Atherton, Gray Subsoil Variant

Setting

Landform: Outwash terraces
Parent material: Loamy glaciofluvial deposits

Typical profile

H1 - 0 to 6 inches: silt loam
H2 - 6 to 37 inches: silt loam
H3 - 37 to 60 inches: stratified gravelly sand to silty clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: Occasional
Available water capacity: Moderate (about 7.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: B/D
Ecological site: F140XY016NY - Mineral Wetlands
Hydric soil rating: Yes

Minor Components

Braceville

Percent of map unit: 10 percent
Landform: Outwash terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Bf—Basher soils

Map Unit Setting

National map unit symbol: 9yfm
Elevation: 400 to 840 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 120 to 187 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Basher and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Basher

Setting

Landform: Flood plains
Parent material: Reddish alluvium derived from sedimentary rock

Typical profile

H1 - 0 to 10 inches: silt loam
H2 - 10 to 37 inches: loam
H3 - 37 to 53 inches: fine sandy loam
H4 - 53 to 62 inches: very gravelly sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Moderately well drained
Runoff class: Low

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: About 12 to 36 inches
Frequency of flooding: OccasionalNone
Frequency of ponding: None
Available water capacity: Moderate (about 8.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: C
Ecological site: F140XY014NY - Low Floodplain
Hydric soil rating: No

Minor Components

Holly

Percent of map unit: 10 percent
Landform: Backswamps, depressions on flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: Yes

BrC—Braceville gravelly loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 9yfw
Elevation: 160 to 1,970 feet
Mean annual precipitation: 34 to 56 inches
Mean annual air temperature: 40 to 54 degrees F
Frost-free period: 100 to 175 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Braceville and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Braceville

Setting

Landform: Outwash terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Coarse-loamy outwash

Typical profile

H1 - 0 to 3 inches: gravelly loam
H2 - 3 to 30 inches: gravelly silt loam
H3 - 30 to 55 inches: very gravelly loam
H4 - 55 to 60 inches: stratified sand and gravel

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: 18 to 30 inches to fragipan
Drainage class: Moderately well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.60 in/hr)
Depth to water table: About 18 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: F140XY020NY - Dense Outwash
Hydric soil rating: No

Minor Components

Rexford, poorly drained

Percent of map unit: 5 percent
Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

CF—Cut and fill land

Map Unit Setting

National map unit symbol: 9yg0
Elevation: 490 to 2,260 feet
Mean annual precipitation: 36 to 46 inches
Mean annual air temperature: 46 to 56 degrees F
Frost-free period: 135 to 170 days
Farmland classification: Not prime farmland

Map Unit Composition

Udorthents, cut and fill, and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Udorthents, Cut And Fill

Setting

Down-slope shape: Linear
Across-slope shape: Linear

Properties and qualities

Slope: 0 to 70 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

ChA—Chenango gravelly loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 9yg1
Elevation: 600 to 1,800 feet
Mean annual precipitation: 30 to 56 inches
Mean annual air temperature: 40 to 54 degrees F
Frost-free period: 100 to 180 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Chenango and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chenango

Setting

Landform: Outwash terraces
Landform position (three-dimensional): Riser
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Gravelly outwash

Typical profile

H1 - 0 to 8 inches: gravelly loam
H2 - 8 to 32 inches: gravelly fine sandy loam
H3 - 32 to 72 inches: very gravelly loamy coarse sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None

Frequency of ponding: None
Available water capacity: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2s
Hydrologic Soil Group: A
Ecological site: F140XY021NY - Dry Outwash
Hydric soil rating: No

Minor Components

Braceville

Percent of map unit: 5 percent
Landform: Outwash terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
Hydric soil rating: No

Rexford, somewhat poorly drained

Percent of map unit: 5 percent
Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: No

ChB—Chenango gravelly loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9yg2
Elevation: 600 to 1,800 feet
Mean annual precipitation: 30 to 56 inches
Mean annual air temperature: 40 to 54 degrees F
Frost-free period: 100 to 180 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Chenango and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chenango

Setting

Landform: Outwash terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear
Across-slope shape: Linear

Parent material: Gravelly outwash

Typical profile

H1 - 0 to 8 inches: gravelly loam
H2 - 8 to 32 inches: gravelly fine sandy loam
H3 - 32 to 72 inches: very gravelly loamy coarse sand

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: A
Ecological site: F140XY021NY - Dry Outwash
Hydric soil rating: No

Minor Components

Braceville

Percent of map unit: 5 percent
Landform: Outwash terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
Hydric soil rating: No

Rexford, somewhat poorly drained

Percent of map unit: 5 percent
Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: No

ChC—Chenango gravelly loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 9yg3
Elevation: 600 to 1,800 feet
Mean annual precipitation: 30 to 56 inches
Mean annual air temperature: 40 to 54 degrees F

Frost-free period: 100 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Chenango and similar soils: 93 percent
Minor components: 7 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chenango

Setting

Landform: Outwash terraces
Landform position (three-dimensional): Riser
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Gravelly outwash

Typical profile

H1 - 0 to 8 inches: gravelly loam
H2 - 8 to 32 inches: gravelly fine sandy loam
H3 - 32 to 72 inches: very gravelly loamy coarse sand

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.4 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: A
Ecological site: F140XY021NY - Dry Outwash
Hydric soil rating: No

Minor Components

Braceville

Percent of map unit: 5 percent
Landform: Outwash terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Linear, convex
Across-slope shape: Linear, concave
Hydric soil rating: No

Rexford, somewhat poorly drained

Percent of map unit: 2 percent
Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave

Hydric soil rating: No

CIA—Chippewa silt loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 2v32k
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Chippewa and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chippewa

Setting

Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Loamy till dominated by siltstone, sandstone, and shale fragments

Typical profile

Ap - 0 to 7 inches: silt loam
Eg - 7 to 15 inches: channery silt loam
Bxg - 15 to 45 inches: channery silt loam
C - 45 to 72 inches: channery silt loam

Properties and qualities

Slope: 0 to 3 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 8 to 20 inches to fragipan
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water capacity: Low (about 3.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: D
Ecological site: F140XY016NY - Mineral Wetlands

Hydric soil rating: Yes

Minor Components

Chippewa, very poorly drained

Percent of map unit: 10 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Volusia

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope, interfluve, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

CnB—Chippewa silt loam, 0 to 8 percent slopes, extremely stony

Map Unit Setting

National map unit symbol: 2vcjf
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Chippewa, extremely stony, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Chippewa, Extremely Stony

Setting

Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Loamy till dominated by siltstone, sandstone, and shale fragments

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 5 inches: silt loam
Eg - 5 to 15 inches: channery silt loam

Bxg - 15 to 45 inches: channery silt loam
C - 45 to 72 inches: channery silt loam

Properties and qualities
Slope: 0 to 8 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 8 to 20 inches to fragipan
Drainage class: Poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water capacity: Low (about 3.0 inches)

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: F140XY016NY - Mineral Wetlands
Hydric soil rating: Yes

Minor Components

Volusia, extremely stony
Percent of map unit: 8 percent
Landform: Hills, mountains
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope, interfluve, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Chippewa, extremely stony, very poorly drained
Percent of map unit: 7 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

DdD—Dekalb channery sandy loam, 8 to 25 percent slopes, rubbly

Map Unit Setting
National map unit symbol: 2w6ng
Elevation: 570 to 2,000 feet
Mean annual precipitation: 37 to 50 inches
Mean annual air temperature: 50 to 56 degrees F
Frost-free period: 155 to 185 days

Farmland classification: Not prime farmland

Map Unit Composition

Dekalb and similar soils: 75 percent
Minor components: 25 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dekalb

Setting

Landform: Mountain slopes
Landform position (two-dimensional): Summit, shoulder, backslope
Landform position (three-dimensional): Upper third of mountainflank
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Parent material: Residuum weathered from sandstone and shale

Typical profile

Oi - 0 to 1 inches: slightly decomposed plant material
A - 1 to 4 inches: channery sandy loam
E - 4 to 7 inches: channery sandy loam
Bw - 7 to 26 inches: very channery sandy loam
C - 26 to 34 inches: extremely channery sandy loam
R - 34 to 44 inches: bedrock

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 30.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 1.98 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Lehew

Percent of map unit: 10 percent
Landform: Mountain slopes
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Upper third of mountainflank
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Hydric soil rating: No

Clymer

Percent of map unit: 10 percent

Landform: Mountain slopes
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Upper third of mountainflank
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Hydric soil rating: No

Hazleton

Percent of map unit: 5 percent
Landform: Mountain slopes
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Upper third of mountainflank
Down-slope shape: Linear, convex
Across-slope shape: Linear, convex
Hydric soil rating: No

DEF—Dekalb extremely stony sandy loam, steep

Map Unit Setting

National map unit symbol: 9yg7
Elevation: 1,000 to 2,800 feet
Mean annual precipitation: 36 to 60 inches
Mean annual air temperature: 46 to 59 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Dekalb and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dekalb

Setting

Landform: Mountains
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Mountainflank
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from sandstone and shale

Typical profile

H1 - 0 to 6 inches: channery sandy loam
H2 - 6 to 21 inches: channery sandy loam
H3 - 21 to 32 inches: very channery sandy loam
R4 - 32 to 35 inches: unweathered bedrock

Properties and qualities

Slope: 25 to 80 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained

Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: A
Hydric soil rating: No

GP—Gravel pits

Map Unit Setting

National map unit symbol: 1jrv7
Mean annual precipitation: 36 to 46 inches
Mean annual air temperature: 46 to 56 degrees F
Frost-free period: 135 to 170 days
Farmland classification: Not prime farmland

Map Unit Composition

Pits, shale: 51 percent
Pits, gravel: 49 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pits, Shale

Typical profile

C - 0 to 1 inches: channers
R - 1 to 2 inches: bedrock

Properties and qualities

Slope: 0 to 40 percent
Depth to restrictive feature: 0 to 2 inches to paralithic bedrock
Drainage class: Excessively drained
Runoff class: Medium

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8e
Hydric soil rating: No

Description of Pits, Gravel

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 8e
Hydric soil rating: No

Ho—Holly silt loam

Map Unit Setting

National map unit symbol: 9ygb
Elevation: 200 to 1,000 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 46 to 55 degrees F
Frost-free period: 120 to 187 days
Farmland classification: Not prime farmland

Map Unit Composition

Holly and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Holly

Setting

Landform: Backswamps, depressions on flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy alluvium derived from sandstone and shale

Typical profile

H1 - 0 to 5 inches: silt loam
H2 - 5 to 28 inches: silt loam
H3 - 28 to 43 inches: silt loam
H4 - 43 to 60 inches: stratified gravelly sand to silt loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: FrequentNone
Frequency of ponding: Occasional
Available water capacity: High (about 9.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: B/D
Hydric soil rating: Yes

Minor Components

Linden

Percent of map unit: 5 percent
Hydric soil rating: No

LaC—Lackawanna channery silt loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2w095
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Lackawanna and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lackawanna

Setting

Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Linear
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale

Typical profile

Ap - 0 to 7 inches: channery silt loam
Bw1 - 7 to 17 inches: channery silt loam
Bw2 - 17 to 26 inches: channery loam
Bx - 26 to 60 inches: channery loam
C - 60 to 72 inches: very channery loam

Properties and qualities

Slope: 8 to 15 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 17 to 36 inches to fragipan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 16 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Wellsboro

Percent of map unit: 10 percent
Landform: Hills, mountains
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Oquaga

Percent of map unit: 3 percent
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Upper third of mountainflank, crest, nose slope, side slope
Down-slope shape: Convex, linear
Across-slope shape: Linear
Hydric soil rating: No

Morris

Percent of map unit: 2 percent
Landform: Hills, mountains
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Interfluve, base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

LaD—Lackawanna channery silt loam, 15 to 25 percent slopes

Map Unit Setting

National map unit symbol: 2w097
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Lackawanna and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lackawanna

Setting

Landform: Mountains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale

Typical profile

Ap - 0 to 7 inches: channery silt loam
Bw1 - 7 to 17 inches: channery silt loam
Bw2 - 17 to 26 inches: channery loam
Bx - 26 to 60 inches: channery loam
C - 60 to 72 inches: very channery loam

Properties and qualities

Slope: 15 to 25 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 17 to 36 inches to fragipan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 16 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Wellsboro

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Oquaga

Percent of map unit: 5 percent
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Upper third of mountainflank, crest, nose slope, side slope
Down-slope shape: Convex, linear
Across-slope shape: Linear
Hydric soil rating: No

LcB—Lackawanna channery silt loam, 3 to 8 percent slopes, extremely stony

Map Unit Setting

National map unit symbol: 2w09m
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Lackawanna, extremely stony, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lackawanna, Extremely Stony

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: channery silt loam
Bw1 - 3 to 17 inches: channery silt loam
Bw2 - 17 to 26 inches: channery loam
Bx - 26 to 60 inches: channery loam
C - 60 to 72 inches: very channery loam

Properties and qualities

Slope: 3 to 8 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 17 to 36 inches to fragipan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 16 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s

Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Wellsboro, extremely stony

Percent of map unit: 10 percent
Landform: Hills, mountains
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Morris, extremely stony

Percent of map unit: 3 percent
Landform: Hills, mountains
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Interfluve, base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Oquaga, extremely stony

Percent of map unit: 2 percent
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, summit, backslope
Landform position (three-dimensional): Mountaintop, upper third of mountainflank, side slope, crest, nose slope
Down-slope shape: Convex, linear
Across-slope shape: Linear
Hydric soil rating: No

LcD—Lackawanna channery silt loam, 8 to 25 percent slopes, extremely stony

Map Unit Setting

National map unit symbol: 2w09n
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Lackawanna, extremely stony, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lackawanna, Extremely Stony

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: channery silt loam
Bw1 - 3 to 17 inches: channery silt loam
Bw2 - 17 to 26 inches: channery loam
Bx - 26 to 60 inches: channery loam
C - 60 to 72 inches: very channery loam

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 17 to 36 inches to fragipan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 16 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Morris, extremely stony

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Interfluve, base slope, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Wellsboro, extremely stony

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Interfluve, side slope, head slope
Down-slope shape: Convex, concave
Across-slope shape: Convex, linear
Hydric soil rating: No

Oquaga, rubbly

Percent of map unit: 5 percent
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, summit, backslope
Landform position (three-dimensional): Upper third of mountainflank, mountaintop, side slope, crest, nose slope
Down-slope shape: Convex, linear
Across-slope shape: Linear
Hydric soil rating: No

LEF—Lackawanna and Bath soils, steep, extremely stony

Map Unit Setting

National map unit symbol: 2v31t
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Lackawanna, extremely stony, and similar soils: 60 percent
Bath, extremely stony, and similar soils: 20 percent
Minor components: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Lackawanna, Extremely Stony

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy till derived mainly from reddish sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: channery silt loam
Bw1 - 3 to 17 inches: channery silt loam
Bw2 - 17 to 26 inches: channery loam
Bx - 26 to 60 inches: channery loam
C - 60 to 72 inches: very channery loam

Properties and qualities

Slope: 25 to 50 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 17 to 36 inches to fragipan
Drainage class: Well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 16 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 4.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

Description of Bath, Extremely Stony

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy till derived mainly from gray and brown siltstone, sandstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: channery silt loam
Bw1 - 3 to 15 inches: channery silt loam
Bw2 - 15 to 25 inches: channery loam
E - 25 to 29 inches: channery loam
Bx - 29 to 52 inches: very channery silt loam
C - 52 to 72 inches: very channery silt loam

Properties and qualities

Slope: 25 to 45 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 26 to 38 inches to fragipan
Drainage class: Well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 24 to 36 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 15 percent
Available water capacity: Low (about 4.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: F140XY030NY - Well Drained Dense Till
Hydric soil rating: No

Minor Components

Arnot, extremely stony

Percent of map unit: 5 percent

Landform: Hills, mountains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountaintop, mountainflank, free face, nose slope, side slope, free face
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Lordstown, very stony

Percent of map unit: 5 percent
Landform: Mountains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, nose slope, free face, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Oquaga, extremely stony

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Upper third of mountainflank, crest, nose slope, side slope
Down-slope shape: Linear, convex
Across-slope shape: Linear
Hydric soil rating: No

Wellsboro, extremely stony

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Ln—Linden soils

Map Unit Setting

National map unit symbol: 9ygv
Elevation: 200 to 1,000 feet
Mean annual precipitation: 30 to 45 inches
Mean annual air temperature: 46 to 55 degrees F
Frost-free period: 120 to 187 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Linden and similar soils: 92 percent

Minor components: 8 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Linden

Setting

Landform: Flood plains
Parent material: Alluvium derived from sedimentary rock

Typical profile

H1 - 0 to 9 inches: silt loam
H2 - 9 to 45 inches: silt loam
H3 - 45 to 60 inches: very gravelly sand

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Very low
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: About 36 to 72 inches
Frequency of flooding: OccasionalNone
Frequency of ponding: None
Available water capacity: Moderate (about 8.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 1
Hydrologic Soil Group: A
Hydric soil rating: No

Minor Components

Holly

Percent of map unit: 8 percent
Landform: Backswamps, depressions on flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: Yes

McB—Mardin channery silt loam, 3 to 8 percent slopes, very stony

Map Unit Setting

National map unit symbol: 2srj1
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Mardin, very stony, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mardin, Very Stony

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy till

Typical profile

A - 0 to 4 inches: channery silt loam
BE - 4 to 12 inches: channery silt loam
Bw1 - 12 to 16 inches: channery silt loam
Bw2 - 16 to 20 inches: channery silt loam
Bx1 - 20 to 36 inches: channery silt loam
Bx2 - 36 to 57 inches: channery silt loam
C - 57 to 72 inches: channery silt loam

Properties and qualities

Slope: 3 to 8 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: 14 to 26 inches to fragipan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 13 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Lordstown

Percent of map unit: 6 percent
Landform: Mountains, hills
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Mountaintop, nose slope, crest
Down-slope shape: Convex
Across-slope shape: Linear
Hydric soil rating: No

Volusia, very stony

Percent of map unit: 5 percent

Landform: Hills, mountains
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope, interfluve, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Chippewa, very stony

Percent of map unit: 4 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

McD—Mardin channery silt loam, 8 to 25 percent slopes, very stony

Map Unit Setting

National map unit symbol: 2v2zx
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Mardin, very stony, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Mardin, Very Stony

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope, head slope
Down-slope shape: Concave, linear
Across-slope shape: Linear
Parent material: Loamy till

Typical profile

A - 0 to 4 inches: channery silt loam
BE - 4 to 12 inches: channery silt loam
Bw1 - 12 to 16 inches: channery silt loam
Bw2 - 16 to 20 inches: channery silt loam
Bx1 - 20 to 36 inches: channery silt loam
Bx2 - 36 to 57 inches: channery silt loam
C - 57 to 72 inches: channery silt loam

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 1.6 percent
Depth to restrictive feature: 14 to 26 inches to fragipan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 13 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6s
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Volusia, very stony

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope, interfluve, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Bath, very stony

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Lordstown, very stony

Percent of map unit: 5 percent
Landform: Mountains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Mountainflank, side slope, nose slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Mg—Mine dump

Map Unit Setting

National map unit symbol: 9yh6
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Dumps, mine (unstable fill): 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dumps, Mine (unstable Fill)

Setting

Parent material: Coal extraction mine spoil

Typical profile

H1 - 0 to 6 inches: very channery silt loam
H2 - 6 to 60 inches: very channery silt loam

Properties and qualities

Slope: 0 to 50 percent
Depth to restrictive feature: 20 to 60 inches to lithic bedrock
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 6.00 in/hr)
Available water capacity: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydric soil rating: No

Mh—Mine dump, burned

Map Unit Setting

National map unit symbol: 9yh7
Elevation: 330 to 2,460 feet
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Dumps, burned mine, and similar soils: 100 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dumps, Burned Mine

Setting

Parent material: Coal extraction mine spoil

Typical profile

H1 - 0 to 6 inches: very channery silt loam

H2 - 6 to 60 inches: very channery silt loam

Properties and qualities

Slope: 0 to 50 percent

Depth to restrictive feature: 20 to 60 inches to lithic bedrock

Runoff class: Medium

Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 6.00 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 7e

Hydrologic Soil Group: A

Hydric soil rating: No

Mm—Mine wash

Map Unit Setting

National map unit symbol: 9yh8

Elevation: 50 to 500 feet

Mean annual precipitation: 33 to 51 inches

Mean annual air temperature: 40 to 50 degrees F

Frost-free period: 100 to 180 days

Farmland classification: Not prime farmland

Map Unit Composition

Dumps, mine wash: 95 percent

Minor components: 5 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Dumps, Mine Wash

Setting

Parent material: Coal extraction mine spoil

Typical profile

H1 - 0 to 6 inches: channery sandy loam

H2 - 6 to 60 inches: very channery silt loam

Properties and qualities

Slope: 0 to 50 percent
Depth to restrictive feature: 24 to 60 inches to lithic bedrock
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 6.00 in/hr)
Depth to water table: About 24 to 72 inches
Available water capacity: Very low (about 2.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydric soil rating: No

Minor Components

Aqepts

Percent of map unit: 5 percent
Landform: Depressions
Hydric soil rating: Yes

MoB—Morris channery silt loam, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2vclq
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Morris and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Morris

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Interfluve, base slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy till from reddish sandstone, siltstone, and shale

Typical profile

Ap - 0 to 8 inches: channery silt loam
Bw - 8 to 12 inches: channery silt loam

Eg - 12 to 16 inches: channery silt loam
Bx - 16 to 60 inches: channery silt loam
C - 60 to 72 inches: channery loam

Properties and qualities

Slope: 0 to 8 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 10 to 22 inches to fragipan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Wellsboro

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Norwich

Percent of map unit: 5 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

MsB—Morris channery silt loam, 0 to 8 percent slopes, extremely stony

Map Unit Setting

National map unit symbol: 2vxct
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Morris, extremely stony, and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Morris, Extremely Stony

Setting

Landform: Mountains, hills
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Interfluve, base slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy till from reddish sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 5 inches: channery silt loam
Bw - 5 to 12 inches: channery silt loam
Eg - 12 to 16 inches: channery silt loam
Bx - 16 to 60 inches: channery silt loam
C - 60 to 72 inches: channery loam

Properties and qualities

Slope: 0 to 8 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 10 to 22 inches to fragipan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Norwich, extremely stony

Percent of map unit: 5 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Wellsboro, extremely stony

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Backslope, shoulder

Landform position (three-dimensional): Interfluve, side slope, head slope
Down-slope shape: Convex, concave
Across-slope shape: Convex, linear
Hydric soil rating: No

Mu—Muck

Map Unit Setting

National map unit symbol: 9yhf
Elevation: 590 to 2,000 feet
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Freetown, muck, and similar soils: 90 percent
Paupack, mucky peat (shallow), and similar soils: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Freetown, Muck

Setting

Landform: Swamps
Parent material: Highly decomposed organic material

Typical profile

Oe - 0 to 6 inches: mucky peat
Oa - 6 to 72 inches: muck

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 6.00 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Available water capacity: Very high (about 23.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: A/D
Hydric soil rating: Yes

Description of Paupack, Mucky Peat (shallow)

Setting

Landform: Swamps
Parent material: Woody organic material over gravelly alluvium

Typical profile

Oe - 0 to 3 inches: mucky peat
Oa1 - 3 to 26 inches: muck
Oa2 - 26 to 36 inches: very stony muck
Cg - 36 to 70 inches: extremely stony sandy loam

Properties and qualities

Slope: 0 to 2 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.20 to 2.00 in/hr)
Depth to water table: About 0 to 6 inches
Frequency of flooding: None
Frequency of ponding: Frequent
Available water capacity: Very high (about 17.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 5w
Hydrologic Soil Group: B/D
Ecological site: F140XY012PA - Organic Wetlands
Hydric soil rating: Yes

OIB—Oquaga and Lordstown channery silt loams, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9yhh
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Oquaga and similar soils: 65 percent
Lordstown and similar soils: 35 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes

Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

Ap - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear
Parent material: Till derived from sedimentary rock

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 26 inches: channery silt loam
C - 26 to 30 inches: very channery loam
2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2e
Hydrologic Soil Group: C
Hydric soil rating: No

OlC—Oquaga and Lordstown channery silt loams, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 9yhj
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Oquaga and similar soils: 65 percent
Lordstown and similar soils: 35 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

Ap - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 26 inches: channery silt loam
C - 26 to 30 inches: very channery loam
2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Hydric soil rating: No

OlD—Oquaga and Lordstown channery silt loams, 15 to 25 percent slopes

Map Unit Setting

National map unit symbol: 9yhk
Elevation: 600 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Oquaga and similar soils: 65 percent
Lordstown and similar soils: 35 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

Ap - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 26 inches: channery silt loam
C - 26 to 30 inches: very channery loam
2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock

Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: C
Hydric soil rating: No

OpB—Oquaga and Lordstown extremely stony silt loams, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9yhl
Elevation: 700 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Oquaga and similar soils: 65 percent
Lordstown and similar soils: 35 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery silt loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent
Surface area covered with cobbles, stones or boulders: 15.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained

Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 26 inches: channery silt loam
C - 26 to 30 inches: very channery loam
2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

OpD—Oquaga and Lordstown extremely stony silt loams, 8 to 25 percent slopes

Map Unit Setting

National map unit symbol: 9yhm
Elevation: 700 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Oquaga and similar soils: 60 percent
Lordstown and similar soils: 40 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery silt loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 15.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 26 inches: channery silt loam
C - 26 to 30 inches: very channery loam
2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

OXF—Oquaga and Lordstown extremely stony silt loams steep

Map Unit Setting

National map unit symbol: 9yhg
Elevation: 700 to 1,800 feet
Mean annual precipitation: 32 to 50 inches
Mean annual air temperature: 45 to 52 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Oquaga and similar soils: 60 percent
Lordstown and similar soils: 40 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Oquaga

Setting

Landform: Hillslopes
Landform position (two-dimensional): Shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Reddish ablation till derived from sandstone and siltstone

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 30 inches: very channery silt loam
R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 25 to 50 percent
Surface area covered with cobbles, stones or boulders: 15.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.7 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Ecological site: F140XY027NY - Well Drained Till Uplands
Hydric soil rating: No

Description of Lordstown

Setting

Landform: Hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex, linear
Across-slope shape: Convex, linear

Typical profile

A - 0 to 7 inches: channery silt loam
Bw - 7 to 26 inches: channery silt loam
C - 26 to 30 inches: very channery loam
2R - 30 to 42 inches: unweathered bedrock

Properties and qualities

Slope: 25 to 50 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 20 to 40 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High

Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.8 inches)

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

Ps—Pope soils

Map Unit Setting
National map unit symbol: 9yht
Elevation: 160 to 1,970 feet
Mean annual precipitation: 30 to 51 inches
Mean annual air temperature: 40 to 54 degrees F
Frost-free period: 100 to 187 days
Farmland classification: All areas are prime farmland

Map Unit Composition
Pope and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pope

Setting
Landform: Flood plains
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Coarse-loamy alluvium derived from sandstone and siltstone

Typical profile
H1 - 0 to 10 inches: silt loam
H2 - 10 to 42 inches: fine sandy loam
H3 - 42 to 62 inches: sandy loam

Properties and qualities
Slope: 0 to 4 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Well drained
Runoff class: Low
Capacity of the most limiting layer to transmit water (Ksat): Moderately high to high (0.60 to 2.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None

Available water capacity: Moderate (about 8.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 1
Hydrologic Soil Group: B
Ecological site: F140XY013PA - High Floodplain
Hydric soil rating: No

Minor Components

Holly

Percent of map unit: 5 percent
Landform: Backswamps, depressions on flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: Yes

Qu—Quarries and mines

Map Unit Setting

National map unit symbol: 9yhn
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Pits, (quarries): 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

RdA—Rexford loam, 0 to 3 percent slopes

Map Unit Setting

National map unit symbol: 9yhv
Elevation: 590 to 1,970 feet
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 160 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Rexford, somewhat poorly drained, and similar soils: 60 percent
Rexford, poorly drained, and similar soils: 40 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rexford, Somewhat Poorly Drained

Setting

Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Coarse-loamy outwash derived from sandstone and shale

Typical profile

Ap - 0 to 8 inches: silt loam
Bw - 8 to 18 inches: silt loam
Bx - 18 to 40 inches: gravelly loam
2C - 40 to 63 inches: Error

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 15 to 24 inches to fragipan
Drainage class: Somewhat poorly drained
Runoff class: Very high
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 2 to 10 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Ecological site: F140XY020NY - Dense Outwash
Hydric soil rating: No

Description of Rexford, Poorly Drained

Setting

Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Coarse-loamy outwash derived from sandstone and shale

Typical profile

Ap - 0 to 8 inches: silt loam
Bw - 8 to 18 inches: silt loam
Bx - 18 to 40 inches: gravelly loam
2C - 40 to 63 inches: Error

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: 15 to 24 inches to fragipan
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: None
Frequency of ponding: None

Available water capacity: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Ecological site: F140XY016NY - Mineral Wetlands
Hydric soil rating: Yes

RdB—Rexford loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9yhw
Elevation: 590 to 1,970 feet
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 160 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Rexford, poorly drained, and similar soils: 80 percent
Rexford, somewhat poorly drained, and similar soils: 20 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Rexford, Poorly Drained

Setting

Landform: Outwash terraces
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Coarse-loamy outwash derived from sandstone and shale

Typical profile

Ap - 0 to 8 inches: silt loam
Bw - 8 to 18 inches: loam
Bx - 18 to 40 inches: gravelly loam
2C - 40 to 63 inches: Error

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 15 to 24 inches to fragipan
Drainage class: Poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 to 8 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Ecological site: F140XY016NY - Mineral Wetlands
Hydric soil rating: Yes

Description of Rexford, Somewhat Poorly Drained

Setting

Landform: Outwash terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Tread
Down-slope shape: Concave
Across-slope shape: Concave
Parent material: Coarse-loamy outwash derived from sandstone and shale

Typical profile

Ap - 0 to 8 inches: silt loam
Bw - 8 to 18 inches: gravelly sandy loam
Bx - 18 to 40 inches: gravelly sandy loam
2C - 40 to 63 inches: Error

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 15 to 24 inches to fragipan
Drainage class: Somewhat poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 2 to 10 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Ecological site: F140XY020NY - Dense Outwash
Hydric soil rating: No

Sm—Strip mine

Map Unit Setting

National map unit symbol: 9yhz
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F
Frost-free period: 100 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Pits, strip mine: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Pits, Strip Mine

Setting

Parent material: Coal extraction mine spoil

Typical profile

H1 - 0 to 6 inches: very channery sandy loam
H2 - 6 to 60 inches: very channery silt loam

Properties and qualities

Slope: 0 to 50 percent
Depth to restrictive feature: 20 to 60 inches to lithic bedrock
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to high (0.06 to 6.00 in/hr)
Available water capacity: Very low (about 1.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydric soil rating: No

VoB—Volusia channery silt loam, 0 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2srff
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Volusia and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Volusia

Setting

Landform: Mountains, hills
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope, interfluve, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy till derived from interbedded sedimentary rock

Typical profile

Ap - 0 to 9 inches: channery silt loam
Bw - 9 to 15 inches: channery silt loam
Eg - 15 to 17 inches: channery silt loam
Bx1 - 17 to 29 inches: channery loam
Bx2 - 29 to 54 inches: channery loam
C - 54 to 72 inches: channery silt loam

Properties and qualities

Slope: 0 to 8 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 10 to 22 inches to fragipan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water capacity: Very low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3w
Hydrologic Soil Group: D
Ecological site: F140XY024NY - Moist Dense Till
Hydric soil rating: No

Minor Components

Mardin

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

Chippewa

Percent of map unit: 5 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

VrB—Volusia channery silt loam, 0 to 8 percent slopes, extremely stony

Map Unit Setting

National map unit symbol: 2srfw
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Volusia, extremely stony, and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Volusia, Extremely Stony

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope, interfluve, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy till derived from interbedded sedimentary rock

Typical profile

A - 0 to 4 inches: channery silt loam
Bw - 4 to 15 inches: channery silt loam
Eg - 15 to 17 inches: channery silt loam
Bx1 - 17 to 29 inches: channery loam
Bx2 - 29 to 54 inches: channery loam
C - 54 to 72 inches: channery silt loam

Properties and qualities

Slope: 0 to 8 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 10 to 22 inches to fragipan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water capacity: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D

Ecological site: F140XY024NY - Moist Dense Till
Hydric soil rating: No

Minor Components

Mardin, extremely stony

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

Chippewa, extremely stony

Percent of map unit: 5 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

VrC—Volusia channery silt loam, 8 to 15 percent slopes, extremely stony

Map Unit Setting

National map unit symbol: 2srfy
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Volusia, extremely stony, and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Volusia, Extremely Stony

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy till derived from interbedded sedimentary rock

Typical profile

A - 0 to 4 inches: channery silt loam
Bw - 4 to 15 inches: channery silt loam

Eg - 15 to 17 inches: channery silt loam
Bx1 - 17 to 29 inches: channery loam
Bx2 - 29 to 54 inches: channery loam
C - 54 to 72 inches: channery silt loam

Properties and qualities

Slope: 8 to 15 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 10 to 22 inches to fragipan
Drainage class: Somewhat poorly drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 6 to 18 inches
Frequency of flooding: None
Frequency of ponding: None
Calcium carbonate, maximum content: 5 percent
Available water capacity: Very low (about 2.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Ecological site: F140XY024NY - Moist Dense Till
Hydric soil rating: No

Minor Components

Mardin, extremely stony

Percent of map unit: 6 percent
Landform: Hills, mountains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, head slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Chippewa, extremely stony

Percent of map unit: 4 percent
Landform: Depressions
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Base slope
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

W—Water

Map Unit Setting

National map unit symbol: 9yj6
Mean annual precipitation: 34 to 51 inches
Mean annual air temperature: 40 to 50 degrees F

Frost-free period: 100 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Bodies of water 2 to: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Wa—Wayland silt loam

Map Unit Setting

National map unit symbol: 9yj7
Elevation: 200 to 1,500 feet
Mean annual precipitation: 30 to 56 inches
Mean annual air temperature: 45 to 54 degrees F
Frost-free period: 110 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Wayland and similar soils: 95 percent
Minor components: 5 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wayland

Setting

Landform: Flood plains
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Talf
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Recent alluvium

Typical profile

H1 - 0 to 3 inches: silt loam
H2 - 3 to 42 inches: silty clay loam
H3 - 42 to 60 inches: silty clay loam

Properties and qualities

Slope: 0 to 3 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Very poorly drained
Runoff class: Negligible
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 0 inches
Frequency of flooding: FrequentNone
Frequency of ponding: Frequent
Available water capacity: High (about 10.1 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4w
Hydrologic Soil Group: C/D

Hydric soil rating: Yes

Minor Components

Braceville

Percent of map unit: 5 percent
Hydric soil rating: No

WeB—Weikert and Klinesville channery silt loams, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9yj8
Elevation: 300 to 1,600 feet
Mean annual precipitation: 36 to 50 inches
Mean annual air temperature: 46 to 57 degrees F
Frost-free period: 120 to 200 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Weikert and similar soils: 60 percent
Klinesville and similar soils: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Weikert

Setting

Landform: Hills
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from shale and siltstone

Typical profile

H1 - 0 to 8 inches: channery silt loam
H2 - 8 to 17 inches: very channery silt loam
H3 - 17 to 21 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: D
Hydric soil rating: No

Description of Klinesville

Setting

Landform: Ridges, valleys
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from siltstone

Typical profile

H1 - 0 to 2 inches: channery silt loam
H2 - 2 to 13 inches: channery silt loam
H3 - 13 to 15 inches: channery silt loam
R - 15 to 19 inches: unweathered bedrock

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: D
Hydric soil rating: No

WeD—Weikert and Klinesville channery silt loams, 15 to 25 percent slopes

Map Unit Setting

National map unit symbol: 9yjb
Elevation: 300 to 1,600 feet
Mean annual precipitation: 36 to 50 inches
Mean annual air temperature: 46 to 57 degrees F
Frost-free period: 120 to 200 days
Farmland classification: Not prime farmland

Map Unit Composition

Weikert and similar soils: 60 percent
Klinesville and similar soils: 30 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Weikert

Setting

Landform: Hills
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Side slope, crest
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from shale and siltstone

Typical profile

H1 - 0 to 8 inches: channery silt loam
H2 - 8 to 17 inches: very channery silt loam
H3 - 17 to 21 inches: unweathered bedrock

Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock
Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: D
Hydric soil rating: No

Description of Klinesville

Setting

Landform: Ridges, valleys
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Residuum weathered from siltstone

Typical profile

H1 - 0 to 2 inches: channery silt loam
H2 - 2 to 13 inches: channery silt loam
H3 - 13 to 15 inches: channery silt loam
R - 15 to 19 inches: unweathered bedrock

Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: 10 to 20 inches to lithic bedrock

Drainage class: Well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): High (2.00 to 6.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 1.2 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 6e
Hydrologic Soil Group: D
Hydric soil rating: No

WlB—Wellsboro channery silt loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 2vck5
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Wellsboro and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wellsboro

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy till from reddish sandstone, siltstone, and shale

Typical profile

Ap - 0 to 8 inches: channery silt loam
Bw - 8 to 22 inches: channery silt loam
Bx - 22 to 55 inches: channery loam
C - 55 to 72 inches: very channery loam

Properties and qualities

Slope: 3 to 8 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 14 to 30 inches to fragipan
Drainage class: Moderately well drained

Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 13 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Lackawanna

Percent of map unit: 5 percent
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Linear
Hydric soil rating: No

Morris

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Interfluve, base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Oquaga

Percent of map unit: 5 percent
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Upper third of mountainflank, crest, nose slope
Down-slope shape: Convex
Across-slope shape: Linear
Hydric soil rating: No

WlC—Wellsboro channery silt loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 2vck6
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days

Farmland classification: Farmland of statewide importance

Map Unit Composition

Wellsboro and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wellsboro

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Backslope, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Loamy till from reddish sandstone, siltstone, and shale

Typical profile

Ap - 0 to 8 inches: channery silt loam
Bw - 8 to 22 inches: channery silt loam
Bx - 22 to 55 inches: channery loam
C - 55 to 72 inches: very channery loam

Properties and qualities

Slope: 8 to 15 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 14 to 30 inches to fragipan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 13 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Morris

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Interfluve, base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Lackawanna

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope

Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

WID—Wellsboro channery silt loam, 15 to 25 percent slopes

Map Unit Setting

National map unit symbol: 2vck7
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Wellsboro and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wellsboro

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Side slope, head slope
Down-slope shape: Concave
Across-slope shape: Linear
Parent material: Loamy till from reddish sandstone, siltstone, and shale

Typical profile

Ap - 0 to 8 inches: channery silt loam
Bw - 8 to 22 inches: channery silt loam
Bx - 22 to 55 inches: channery loam
C - 55 to 72 inches: very channery loam

Properties and qualities

Slope: 15 to 25 percent
Surface area covered with cobbles, stones or boulders: 0.0 percent
Depth to restrictive feature: 14 to 30 inches to fragipan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 13 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.8 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: D

Hydric soil rating: No

Minor Components

Oquaga

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Upper third of mountainflank, crest, nose slope, side slope
Down-slope shape: Convex, linear
Across-slope shape: Linear
Hydric soil rating: No

Morris

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Lackawanna

Percent of map unit: 5 percent
Landform: Mountains, hills
Landform position (two-dimensional): Backslope
Landform position (three-dimensional): Nose slope, side slope
Down-slope shape: Linear
Across-slope shape: Linear
Hydric soil rating: No

WmB—Wellsboro channery silt loam, 3 to 8 percent slopes, extremely stony

Map Unit Setting

National map unit symbol: 2vckl
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Wellsboro, extremely stony, and similar soils: 90 percent
Minor components: 10 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wellsboro, Extremely Stony

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Parent material: Loamy till from reddish sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: channery silt loam
Bw - 3 to 22 inches: channery silt loam
Bx - 22 to 55 inches: channery loam
C - 55 to 72 inches: very channery loam

Properties and qualities

Slope: 3 to 8 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 14 to 30 inches to fragipan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 13 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Morris, extremely stony

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Interfluve, base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Oquaga, extremely stony

Percent of map unit: 5 percent
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, summit, backslope
Landform position (three-dimensional): Mountaintop, upper third of mountainflank, side slope, crest, nose slope
Down-slope shape: Convex, linear
Across-slope shape: Linear
Hydric soil rating: No

WmD—Wellsboro channery silt loam, 8 to 25 percent slopes, extremely stony

Map Unit Setting

National map unit symbol: 2vckp
Elevation: 330 to 2,460 feet
Mean annual precipitation: 31 to 70 inches
Mean annual air temperature: 39 to 52 degrees F
Frost-free period: 105 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Wellsboro, extremely stony, and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wellsboro, Extremely Stony

Setting

Landform: Hills, mountains
Landform position (two-dimensional): Shoulder, backslope
Landform position (three-dimensional): Interfluve, side slope, head slope
Down-slope shape: Convex, concave
Across-slope shape: Convex, linear
Parent material: Loamy till from reddish sandstone, siltstone, and shale

Typical profile

Oe - 0 to 1 inches: moderately decomposed plant material
A - 1 to 3 inches: channery silt loam
Bw - 3 to 22 inches: channery silt loam
Bx - 22 to 55 inches: channery loam
C - 55 to 72 inches: very channery loam

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 7.0 percent
Depth to restrictive feature: 14 to 30 inches to fragipan
Drainage class: Moderately well drained
Capacity of the most limiting layer to transmit water (Ksat): Very low to moderately low (0.00 to 0.14 in/hr)
Depth to water table: About 13 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.9 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: D
Hydric soil rating: No

Minor Components

Oquaga, extremely stony

Percent of map unit: 5 percent
Landform: Mountains, hills
Landform position (two-dimensional): Shoulder, summit, backslope
Landform position (three-dimensional): Mountaintop, upper third of mountainflank, side slope, crest, nose slope
Down-slope shape: Convex, linear
Across-slope shape: Linear
Hydric soil rating: No

Morris, extremely stony

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Summit, footslope
Landform position (three-dimensional): Interfluve, base slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

Lackawanna, extremely stony

Percent of map unit: 5 percent
Landform: Hills, mountains
Landform position (two-dimensional): Summit, shoulder
Landform position (three-dimensional): Interfluve, side slope
Down-slope shape: Convex
Across-slope shape: Convex
Hydric soil rating: No

WrB—Wurtsboro channery loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9yjj
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 46 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days
Farmland classification: All areas are prime farmland

Map Unit Composition

Wurtsboro and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wurtsboro

Setting

Landform: Hills
Landform position (two-dimensional): Footslope

Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear

Typical profile

H1 - 0 to 8 inches: channery loam
H2 - 8 to 21 inches: gravelly loam
H3 - 21 to 60 inches: gravelly sandy loam

Properties and qualities

Slope: 3 to 8 percent
Depth to restrictive feature: 17 to 28 inches to fragipan
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 18 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 2w
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Swartswood

Percent of map unit: 10 percent
Hydric soil rating: No

Chippewa

Percent of map unit: 5 percent
Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

WrC—Wurtsboro channery loam, 8 to 15 percent slopes

Map Unit Setting

National map unit symbol: 9yjk
Elevation: 800 to 1,800 feet
Mean annual precipitation: 30 to 46 inches
Mean annual air temperature: 45 to 50 degrees F
Frost-free period: 110 to 150 days
Farmland classification: Farmland of statewide importance

Map Unit Composition

Wurtsboro and similar soils: 87 percent
Minor components: 13 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wurtsboro

Setting

Landform: Hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear

Typical profile

H1 - 0 to 8 inches: channery loam
H2 - 8 to 21 inches: gravelly loam
H3 - 21 to 60 inches: gravelly sandy loam

Properties and qualities

Slope: 8 to 15 percent
Depth to restrictive feature: 17 to 28 inches to fragipan
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 18 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 3e
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Swartswood

Percent of map unit: 10 percent
Hydric soil rating: No

Chippewa

Percent of map unit: 3 percent
Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

WtB—Wurtsboro extremely stony loam, 3 to 8 percent slopes

Map Unit Setting

National map unit symbol: 9yjm
Elevation: 590 to 1,970 feet
Mean annual precipitation: 30 to 51 inches
Mean annual air temperature: 40 to 55 degrees F
Frost-free period: 100 to 160 days
Farmland classification: Not prime farmland

Map Unit Composition

Wurtsboro and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wurtsboro

Setting

Landform: Hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear

Typical profile

H1 - 0 to 8 inches: channery loam
H2 - 8 to 21 inches: gravelly loam
H3 - 21 to 60 inches: gravelly sandy loam

Properties and qualities

Slope: 3 to 8 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 17 to 28 inches to fragipan
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)
Depth to water table: About 18 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.6 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Swartwood

Percent of map unit: 10 percent
Hydric soil rating: No

Chippewa

Percent of map unit: 5 percent
Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

WtD—Wurtsboro extremely stony loam, 8 to 25 percent slopes

Map Unit Setting

National map unit symbol: 9yjn
Elevation: 330 to 2,460 feet
Mean annual precipitation: 30 to 70 inches
Mean annual air temperature: 39 to 55 degrees F
Frost-free period: 100 to 180 days
Farmland classification: Not prime farmland

Map Unit Composition

Wurtsboro and similar soils: 85 percent
Minor components: 15 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wurtsboro

Setting

Landform: Hills
Landform position (two-dimensional): Footslope
Landform position (three-dimensional): Base slope
Down-slope shape: Linear
Across-slope shape: Linear

Typical profile

H1 - 0 to 8 inches: channery loam
H2 - 8 to 21 inches: gravelly loam
H3 - 21 to 60 inches: gravelly sandy loam

Properties and qualities

Slope: 8 to 25 percent
Surface area covered with cobbles, stones or boulders: 9.0 percent
Depth to restrictive feature: 17 to 28 inches to fragipan
Drainage class: Moderately well drained
Runoff class: High
Capacity of the most limiting layer to transmit water (Ksat): Moderately low to moderately high (0.06 to 0.20 in/hr)

Depth to water table: About 18 to 24 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Very low (about 2.6 inches)

Interpretive groups
Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7s
Hydrologic Soil Group: C
Hydric soil rating: No

Minor Components

Swartswood
Percent of map unit: 10 percent
Hydric soil rating: No

Chippewa
Percent of map unit: 3 percent
Landform: Depressions
Down-slope shape: Concave
Across-slope shape: Concave
Hydric soil rating: Yes

Volusia, rubbly
Percent of map unit: 2 percent
Landform: Hills
Landform position (two-dimensional): Footslope, summit
Landform position (three-dimensional): Base slope, side slope
Down-slope shape: Concave
Across-slope shape: Linear
Hydric soil rating: No

WyD—Wyoming gravelly loam, 15 to 25 percent slopes

Map Unit Setting
National map unit symbol: 9yjp
Elevation: 400 to 1,800 feet
Mean annual precipitation: 42 to 50 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 110 to 145 days
Farmland classification: Not prime farmland

Map Unit Composition
Wyoming and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wyoming

Setting
Landform: Terraces

Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Linear
Parent material: Water sorted gravelly outwash derived from sandstone and siltstone and/or shale

Typical profile

H1 - 0 to 6 inches: gravelly loam
H2 - 6 to 22 inches: very gravelly sandy loam
H3 - 22 to 60 inches: very gravelly loamy sand

Properties and qualities

Slope: 15 to 25 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 4e
Hydrologic Soil Group: A
Hydric soil rating: No

WyF—Wyoming gravelly loam, 25 to 60 percent slopes

Map Unit Setting

National map unit symbol: 9yjq
Elevation: 400 to 1,800 feet
Mean annual precipitation: 42 to 50 inches
Mean annual air temperature: 46 to 52 degrees F
Frost-free period: 110 to 145 days
Farmland classification: Not prime farmland

Map Unit Composition

Wyoming and similar soils: 100 percent
Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Wyoming

Setting

Landform: Terraces
Landform position (two-dimensional): Toeslope
Landform position (three-dimensional): Riser
Down-slope shape: Linear
Across-slope shape: Linear

Parent material: Water sorted gravelly outwash derived from sandstone and siltstone and/or shale

Typical profile

H1 - 0 to 6 inches: gravelly loam
H2 - 6 to 22 inches: very gravelly sandy loam
H3 - 22 to 60 inches: very gravelly loamy sand

Properties and qualities

Slope: 25 to 45 percent
Depth to restrictive feature: More than 80 inches
Drainage class: Somewhat excessively drained
Runoff class: Medium
Capacity of the most limiting layer to transmit water (Ksat): High to very high (6.00 to 20.00 in/hr)
Depth to water table: More than 80 inches
Frequency of flooding: None
Frequency of ponding: None
Available water capacity: Low (about 3.0 inches)

Interpretive groups

Land capability classification (irrigated): None specified
Land capability classification (nonirrigated): 7e
Hydrologic Soil Group: A
Hydric soil rating: No

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ATTACHMENT 3

E&SC AND SR PLAN BMP DESIGN WORKSHEETS AND CALCULATIONS

TABLE OF CONTENTS

Attachment 3

ATTACHMENT 3.1
COMPOST FILTER SOCK WORKSHEETS

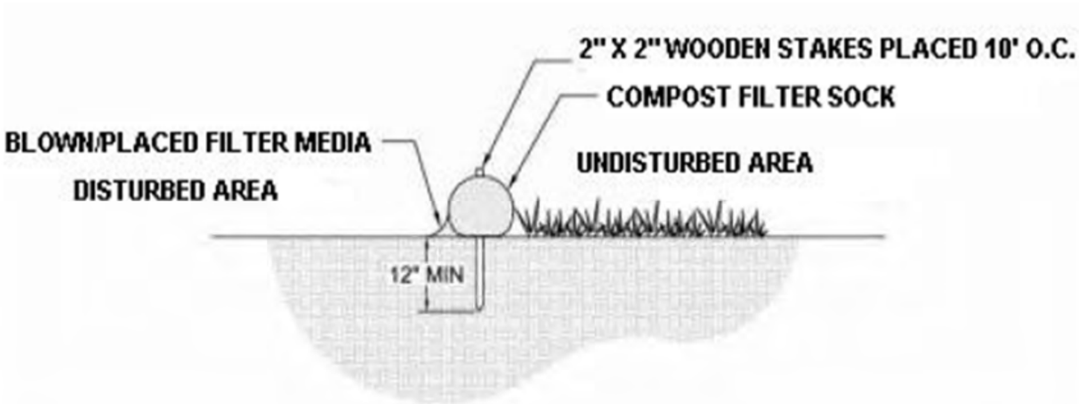
STANDARD E&S WORKSHEET #1
Compost Filter Socks

PROJECT NAME: Williams REAE – REL Pipeline

LOCATION: Buck, Bear Creek, Plains, Jenkins, Kingston and Dallas Townships
Wyoming, West Wyoming, and Laflin Boroughs
Luzerne County, Pennsylvania

PREPARED BY: JB/CH DATE: 2/24/2021

CHECKED BY: KCC DATE: 2/24/2021



SOCK NO.	Dia. In.	LOCATION	SLOPE PERCENT	SLOPE LENGTH ABOVE BARRIER (FT)
REL-CFS-00-001	12 in	SEE MAP	6.0%	151
REL-CFS-00-002	12 in	SEE MAP	6.0%	151
REL-CFS-00-003	12 in	SEE MAP	6.0%	151
REL-CFS-00-004	12 in	SEE MAP	6.0%	151
REL-CFS-00-005	12 in	SEE MAP	8.3%	84
REL-CFS-00-006	12 in	SEE MAP	8.3%	84
REL-CFS-00-007	12 in	SEE MAP	8.3%	84
REL-CFS-00-008	12 in	SEE MAP	7.4%	94
REL-CFS-00-009	12 in	SEE MAP	7.4%	94
REL-CFS-00-010	12 in	SEE MAP	7.4%	94
REL-CFS-00-011	12 in	SEE MAP	7.0%	43
REL-CFS-00-012	12 in	SEE MAP	5.4%	185
REL-CFS-00-013	12 in	SEE MAP	5.4%	185
REL-CFS-00-014	12 in	SEE MAP	5.4%	185
REL-CFS-00-015	12 in	SEE MAP	5.4%	185
REL-CFS-00-016	12 in	SEE MAP	5.4%	185
REL-CFS-00-017	12 in	SEE MAP	5.4%	185

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-00-018	12 in	SEE MAP	3.4%	295
REL-CFS-00-019	12 in	SEE MAP	3.4%	295
REL-CFS-00-020	12 in	SEE MAP	3.4%	295
REL-CFS-00-021	12 in	SEE MAP	wetland	
REL-CFS-00-022	12 in	SEE MAP	wetland	
REL-CFS-00-023	12 in	SEE MAP	wetland	
REL-CFS-00-024	12 in	SEE MAP	wetland	
REL-CFS-00-025	12 in	SEE MAP	wetland	
REL-CFS-00-026	12 in	SEE MAP	wetland	
REL-CFS-00-027	12 in	SEE MAP	wetland	
REL-CFS-00-028	12 in	SEE MAP	wetland	
REL-CFS-00-029	12 in	SEE MAP	wetland	
REL-CFS-00-030	12 in	SEE MAP	wetland	
REL-CFS-00-031	12 in	SEE MAP	wetland	
REL-CFS-00-032	12 in	SEE MAP	wetland	
REL-CFS-00-033	12 in	SEE MAP	wetland	
REL-CFS-00-034	12 in	SEE MAP	wetland	
REL-CFS-00-035	12 in	SEE MAP	wetland	
REL-CFS-00-036	12 in	SEE MAP	3.8%	106
REL-CFS-00-037	12 in	SEE MAP	5.6%	54
REL-CFS-00-038	12 in	SEE MAP	2.1%	97
REL-CFS-00-039	12 in	SEE MAP	wetland	
REL-CFS-00-040	12 in	SEE MAP	wetland	
REL-CFS-00-041	12 in	SEE MAP	wetland	
REL-CFS-00-042	12 in	SEE MAP	wetland	
REL-CFS-00-043	12 in	SEE MAP	1.1%	178
REL-CFS-00-044	12 in	SEE MAP	10.8%	74
REL-CFS-00-045	12 in	SEE MAP	10.8%	74
REL-CFS-00-046	12 in	SEE MAP	10.8%	74
REL-CFS-00-047	12 in	SEE MAP	12.8%	109
REL-CFS-00-048	12 in	SEE MAP	12.8%	109
REL-CFS-00-049	12 in	SEE MAP	12.8%	109
REL-CFS-00-050	12 in	SEE MAP	12.8%	109
REL-CFS-00-051	12 in	SEE MAP	12.8%	109
REL-CFS-00-052	12 in	SEE MAP	12.8%	109
REL-CFS-00-053	12 in	SEE MAP	6.1%	147
REL-CFS-00-054	12 in	SEE MAP	6.1%	147
REL-CFS-00-055	12 in	SEE MAP	6.1%	147
REL-CFS-00-056	12 in	SEE MAP	11.7%	128
REL-CFS-00-057	12 in	SEE MAP	11.7%	128
REL-CFS-00-058	12 in	SEE MAP	11.7%	128

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-00-059	12 in	SEE MAP	11.7%	128
REL-CFS-00-060	12 in	SEE MAP	11.7%	128
REL-CFS-00-061	12 in	SEE MAP	11.7%	128
REL-CFS-00-062	12 in	SEE MAP	11.7%	128
REL-CFS-00-063	12 in	SEE MAP	8.3%	144
REL-CFS-00-064	12 in	SEE MAP	8.3%	144
REL-CFS-00-065	12 in	SEE MAP	8.3%	144
REL-CFS-00-066	12 in	SEE MAP	8.3%	144
REL-CFS-00-067	12 in	SEE MAP	3.7%	134
REL-CFS-00-068	12 in	SEE MAP	3.7%	134
REL-CFS-00-069	12 in	SEE MAP	5.9%	126
REL-CFS-00-070	12 in	SEE MAP	5.9%	126
REL-CFS-00-071	12 in	SEE MAP	5.9%	126
REL-CFS-00-072	12 in	SEE MAP	8.5%	94
REL-CFS-00-073	12 in	SEE MAP	8.5%	94
REL-CFS-00-074	12 in	SEE MAP	8.5%	94
REL-CFS-00-075	12 in	SEE MAP	5.0%	199
REL-CFS-00-076	12 in	SEE MAP	5.0%	199
REL-CFS-00-077	12 in	SEE MAP	5.0%	199
REL-CFS-00-078	12 in	SEE MAP	5.0%	199
REL-CFS-00-079	18 in	SEE MAP	21.3%	80
REL-CFS-00-080	18 in	SEE MAP	21.3%	80
REL-CFS-00-081	18 in	SEE MAP	21.3%	80
REL-CFS-00-082	18 in	SEE MAP	21.3%	80
REL-CFS-00-083	18 in	SEE MAP	21.3%	80
REL-CFS-00-084	18 in	SEE MAP	21.3%	80
REL-CFS-00-085	18 in	SEE MAP	21.3%	80
REL-CFS-00-086	18 in	SEE MAP	21.3%	80
REL-CFS-00-087	18 in	SEE MAP	16.1%	112
REL-CFS-00-088	18 in	SEE MAP	16.1%	112
REL-CFS-00-089	18 in	SEE MAP	16.1%	112
REL-CFS-00-090	18 in	SEE MAP	16.1%	112
REL-CFS-00-091	18 in	SEE MAP	16.1%	112
REL-CFS-00-092	18 in	SEE MAP	16.1%	112
REL-CFS-00-093	18 in	SEE MAP	16.1%	112
REL-CFS-00-094	18 in	SEE MAP	16.1%	112
REL-CFS-00-095	18 in	SEE MAP	16.1%	112
REL-CFS-00-096	12 in	SEE MAP	8.9%	90
REL-CFS-00-097	12 in	SEE MAP	8.9%	90
REL-CFS-00-098	12 in	SEE MAP	8.9%	90
REL-CFS-00-099	12 in	SEE MAP	8.9%	90

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-00-100	18 in	SEE MAP	13.1%	153
REL-CFS-00-101	18 in	SEE MAP	13.1%	153
REL-CFS-00-102	18 in	SEE MAP	13.1%	153
REL-CFS-00-103	18 in	SEE MAP	13.1%	153
REL-CFS-00-104	18 in	SEE MAP	13.1%	153
REL-CFS-00-105	18 in	SEE MAP	13.1%	153
REL-CFS-00-106	18 in	SEE MAP	13.1%	153
REL-CFS-00-107	18 in	SEE MAP	13.1%	153
REL-CFS-00-108	18 in	SEE MAP	13.1%	153
REL-CFS-00-109	18 in	SEE MAP	13.1%	153
REL-CFS-00-110	18 in	SEE MAP	19.4%	124
REL-CFS-00-111	18 in	SEE MAP	19.4%	124
REL-CFS-00-112	18 in	SEE MAP	19.4%	124
REL-CFS-00-113	18 in	SEE MAP	19.4%	124
REL-CFS-00-114	18 in	SEE MAP	19.4%	124
REL-CFS-00-115	18 in	SEE MAP	19.4%	124
REL-CFS-00-116	18 in	SEE MAP	19.4%	124
REL-CFS-00-117	18 in	SEE MAP	19.4%	124
REL-CFS-00-118	18 in	SEE MAP	19.4%	124
REL-CFS-00-119	18 in	SEE MAP	19.4%	124
REL-CFS-00-120	18 in	SEE MAP	19.4%	124
REL-CFS-00-121	18 in	SEE MAP	19.4%	124
REL-CFS-00-122	12 in	SEE MAP	19.2%	73
REL-CFS-00-123	12 in	SEE MAP	19.2%	73
REL-CFS-00-124	12 in	SEE MAP	19.2%	73
REL-CFS-00-125	12 in	SEE MAP	19.2%	73
REL-CFS-00-126	12 in	SEE MAP	19.2%	73
REL-CFS-00-127	12 in	SEE MAP	19.2%	73
REL-CFS-00-128	12 in	SEE MAP	19.2%	73
REL-CFS-00-129	12 in	SEE MAP	19.2%	73
REL-CFS-00-130	12 in	SEE MAP	15.0%	80
REL-CFS-00-131	18 in	SEE MAP	34.9%	43
REL-CFS-00-132	18 in	SEE MAP	34.9%	43
REL-CFS-00-133	18 in	SEE MAP	34.9%	43
REL-CFS-00-134	18 in	SEE MAP	34.9%	43
REL-CFS-00-135	18 in	SEE MAP	34.9%	43
REL-CFS-00-136	18 in	SEE MAP	34.9%	43
REL-CFS-00-137	18 in	SEE MAP	34.9%	43
REL-CFS-00-138	18 in	SEE MAP	17.5%	114
REL-CFS-00-139	18 in	SEE MAP	17.5%	114
REL-CFS-00-140	18 in	SEE MAP	17.5%	114

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-00-141	18 in	SEE MAP	17.5%	114
REL-CFS-00-142	18 in	SEE MAP	17.5%	114
REL-CFS-00-143	18 in	SEE MAP	17.5%	114
REL-CFS-00-144	12 in	SEE MAP	12.1%	33
REL-CFS-00-145	12 in	SEE MAP	12.1%	33
REL-CFS-00-146	12 in	SEE MAP	6.1%	147
REL-CFS-00-147	12 in	SEE MAP	6.1%	147
REL-CFS-00-148	12 in	SEE MAP	6.1%	147
REL-CFS-00-149	12 in	SEE MAP	6.1%	147
REL-CFS-00-150	12 in	SEE MAP	4.3%	23
REL-CFS-00-151	12 in	SEE MAP	wetland	
REL-CFS-00-152	12 in	SEE MAP	wetland	
REL-CFS-00-153	12 in	SEE MAP	wetland	
REL-CFS-00-154	12 in	SEE MAP	wetland	
REL-CFS-00-155	12 in	SEE MAP	wetland	
REL-CFS-00-156	12 in	SEE MAP	wetland	
REL-CFS-00-157	12 in	SEE MAP	wetland	
REL-CFS-00-158	12 in	SEE MAP	wetland	
REL-CFS-00-159	12 in	SEE MAP	wetland	
REL-CFS-00-160	12 in	SEE MAP	wetland	
REL-CFS-00-161	12 in	SEE MAP	wetland	
REL-CFS-00-162	12 in	SEE MAP	wetland	
REL-CFS-00-163	12 in	SEE MAP	wetland	
REL-CFS-00-164	12 in	SEE MAP	wetland	
REL-CFS-00-165	12 in	SEE MAP	wetland	
REL-CFS-00-166	12 in	SEE MAP	wetland	
REL-CFS-00-167	12 in	SEE MAP	wetland	
REL-CFS-00-168	12 in	SEE MAP	wetland	
REL-CFS-00-169	12 in	SEE MAP	wetland	
REL-CFS-00-170	12 in	SEE MAP	14.3%	49
REL-CFS-00-171	12 in	SEE MAP	14.3%	49
REL-CFS-00-172	12 in	SEE MAP	14.3%	49
REL-CFS-01-001	18 in	SEE MAP	17.5%	114
REL-CFS-01-002	18 in	SEE MAP	17.5%	114
REL-CFS-01-003	12 in	SEE MAP	25.0%	32
REL-CFS-01-004	12 in	SEE MAP	25.0%	32
REL-CFS-01-005	12 in	SEE MAP	25.0%	32
REL-CFS-01-006	12 in	SEE MAP	25.0%	32
REL-CFS-01-007	12 in	SEE MAP	25.0%	32
REL-CFS-01-008	12 in	SEE MAP	16.7%	60
REL-CFS-01-009	12 in	SEE MAP	10.3%	29

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-01-010	12 in	SEE MAP	10.3%	29
REL-CFS-01-011	12 in	SEE MAP	13.5%	37
REL-CFS-01-012	12 in	SEE MAP	16.0%	25
REL-CFS-01-013	12 in	SEE MAP	25.9%	27
REL-CFS-01-014	12 in	SEE MAP	32.3%	31
REL-CFS-01-015	12 in	SEE MAP	12.5%	16
REL-CFS-01-016	12 in	SEE MAP	12.5%	16
REL-CFS-01-017	24 in	SEE MAP	14.4%	209
REL-CFS-01-018	24 in	SEE MAP	14.4%	209
REL-CFS-01-019	24 in	SEE MAP	14.4%	209
REL-CFS-01-020	24 in	SEE MAP	14.4%	209
REL-CFS-01-021	24 in	SEE MAP	14.4%	209
REL-CFS-01-022	24 in	SEE MAP	14.4%	209
REL-CFS-01-023	32 in	SEE MAP	9.0%	390
REL-CFS-01-024	32 in	SEE MAP	9.0%	390
REL-CFS-01-025	32 in	SEE MAP	9.0%	390
REL-CFS-01-026	32 in	SEE MAP	9.0%	390
REL-CFS-01-027	18 in	SEE MAP	13.9%	180
REL-CFS-01-028	18 in	SEE MAP	13.9%	180
REL-CFS-01-029	18 in	SEE MAP	13.9%	180
REL-CFS-01-030	18 in	SEE MAP	13.9%	180
REL-CFS-01-031	18 in	SEE MAP	13.9%	180
REL-CFS-01-032	24 in	SEE MAP	9.9%	333
REL-CFS-01-033	24 in	SEE MAP	9.9%	333
REL-CFS-01-034	24 in	SEE MAP	9.9%	333
REL-CFS-01-035	24 in	SEE MAP	9.9%	333
REL-CFS-01-036	32 in	SEE MAP	11.1%	315
REL-CFS-01-037	32 in	SEE MAP	11.1%	315
REL-CFS-01-038	32 in	SEE MAP	11.1%	315
REL-CFS-01-039	32 in	SEE MAP	11.1%	315
REL-CFS-01-040	32 in	SEE MAP	11.1%	315
REL-CFS-01-041	32 in	SEE MAP	11.1%	315
REL-CFS-01-042	32 in	SEE MAP	11.1%	315
REL-CFS-01-043	32 in	SEE MAP	11.1%	315
REL-CFS-01-044	32 in	SEE MAP	11.1%	315
REL-CFS-01-045	12 in	SEE MAP	wetland	
REL-CFS-01-046	12 in	SEE MAP	wetland	
REL-CFS-01-047	12 in	SEE MAP	wetland	
REL-CFS-01-048	12 in	SEE MAP	wetland	
REL-CFS-01-049	12 in	SEE MAP	wetland	
REL-CFS-01-050	12 in	SEE MAP	wetland	

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-01-051	12 in	SEE MAP	wetland	
REL-CFS-01-052	12 in	SEE MAP	wetland	
REL-CFS-01-053	12 in	SEE MAP	wetland	
REL-CFS-01-054	12 in	SEE MAP	wetland	
REL-CFS-01-055	12 in	SEE MAP	wetland	
REL-CFS-01-056	12 in	SEE MAP	wetland	
REL-CFS-01-057	12 in	SEE MAP	wetland	
REL-CFS-01-058	12 in	SEE MAP	wetland	
REL-CFS-01-059	12 in	SEE MAP	wetland	
REL-CFS-01-060	12 in	SEE MAP	wetland	
REL-CFS-01-061	12 in	SEE MAP	wetland	
REL-CFS-01-062	12 in	SEE MAP	wetland	
REL-CFS-01-063	12 in	SEE MAP	wetland	
REL-CFS-01-064	12 in	SEE MAP	wetland	
REL-CFS-01-065	12 in	SEE MAP	wetland	
REL-CFS-01-066	12 in	SEE MAP	wetland	
REL-CFS-01-067	12 in	SEE MAP	wetland	
REL-CFS-01-068	12 in	SEE MAP	wetland	
REL-CFS-01-069	12 in	SEE MAP	wetland	
REL-CFS-01-070	12 in	SEE MAP	wetland	
REL-CFS-01-071	12 in	SEE MAP	wetland	
REL-CFS-01-072	12 in	SEE MAP	wetland	
REL-CFS-01-073	12 in	SEE MAP	wetland	
REL-CFS-01-074	12 in	SEE MAP	wetland	
REL-CFS-01-075	12 in	SEE MAP	wetland	
REL-CFS-01-076	12 in	SEE MAP	wetland	
REL-CFS-01-077	12 in	SEE MAP	wetland	
REL-CFS-01-078	12 in	SEE MAP	wetland	
REL-CFS-01-079	12 in	SEE MAP	wetland	
REL-CFS-01-080	12 in	SEE MAP	wetland	
REL-CFS-01-081	12 in	SEE MAP	wetland	
REL-CFS-01-082	12 in	SEE MAP	wetland	
REL-CFS-01-083	12 in	SEE MAP	wetland	
REL-CFS-01-084	12 in	SEE MAP	wetland	
REL-CFS-01-085	12 in	SEE MAP	wetland	
REL-CFS-01-086	12 in	SEE MAP	wetland	
REL-CFS-01-087	12 in	SEE MAP	wetland	
REL-CFS-01-088	12 in	SEE MAP	8.5%	71
REL-CFS-01-089	12 in	SEE MAP	12.9%	85
REL-CFS-01-090	12 in	SEE MAP	12.9%	85
REL-CFS-01-091	12 in	SEE MAP	12.9%	85

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-01-092	12 in	SEE MAP	12.9%	85
REL-CFS-01-093	12 in	SEE MAP	12.9%	85
REL-CFS-01-094	12 in	SEE MAP	8.7%	92
REL-CFS-01-095	12 in	SEE MAP	8.7%	92
REL-CFS-01-096	12 in	SEE MAP	8.7%	92
REL-CFS-01-097	12 in	SEE MAP	8.7%	92
REL-CFS-01-098	12 in	SEE MAP	9.2%	87
REL-CFS-01-099	12 in	SEE MAP	9.2%	87
REL-CFS-01-100	12 in	SEE MAP	9.2%	87
REL-CFS-01-101	12 in	SEE MAP	9.2%	87
REL-CFS-01-102	12 in	SEE MAP	9.2%	87
REL-CFS-01-103	12 in	SEE MAP	9.2%	87
REL-CFS-01-104	12 in	SEE MAP	7.7%	78
REL-CFS-01-105	12 in	SEE MAP	7.7%	78
REL-CFS-01-106	12 in	SEE MAP	7.7%	78
REL-CFS-01-107	12 in	SEE MAP	7.7%	78
REL-CFS-01-108	12 in	SEE MAP	4.5%	154
REL-CFS-01-109	12 in	SEE MAP	4.5%	154
REL-CFS-01-110	12 in	SEE MAP	4.5%	154
REL-CFS-01-111	12 in	SEE MAP	4.5%	154
REL-CFS-01-112	12 in	SEE MAP	4.5%	154
REL-CFS-01-113	12 in	SEE MAP	7.7%	78
REL-CFS-01-114	12 in	SEE MAP	7.7%	78
REL-CFS-01-115	12 in	SEE MAP	7.7%	78
REL-CFS-01-116	12 in	SEE MAP	wetland	
REL-CFS-01-117	12 in	SEE MAP	wetland	
REL-CFS-01-118	12 in	SEE MAP	wetland	
REL-CFS-01-119	12 in	SEE MAP	wetland	
REL-CFS-01-120	12 in	SEE MAP	wetland	
REL-CFS-01-121	12 in	SEE MAP	wetland	
REL-CFS-01-122	12 in	SEE MAP	wetland	
REL-CFS-01-123	12 in	SEE MAP	wetland	
REL-CFS-01-124	12 in	SEE MAP	wetland	
REL-CFS-01-125	12 in	SEE MAP	wetland	
REL-CFS-01-126	12 in	SEE MAP	wetland	
REL-CFS-01-127	12 in	SEE MAP	wetland	
REL-CFS-01-128	12 in	SEE MAP	wetland	
REL-CFS-01-129	12 in	SEE MAP	wetland	
REL-CFS-01-130	12 in	SEE MAP	wetland	
REL-CFS-01-131	12 in	SEE MAP	wetland	
REL-CFS-01-132	12 in	SEE MAP	wetland	

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-01-133	12 in	SEE MAP	wetland	
REL-CFS-01-134	12 in	SEE MAP	wetland	
REL-CFS-01-135	12 in	SEE MAP	wetland	
REL-CFS-01-136	12 in	SEE MAP	wetland	
REL-CFS-01-137	12 in	SEE MAP	wetland	
REL-CFS-01-138	12 in	SEE MAP	wetland	
REL-CFS-01-139	12 in	SEE MAP	21.1%	38
REL-CFS-01-140	12 in	SEE MAP	21.1%	38
REL-CFS-01-141	12 in	SEE MAP	wetland	
REL-CFS-01-142	12 in	SEE MAP	wetland	
REL-CFS-01-143	12 in	SEE MAP	wetland	
REL-CFS-01-144	12 in	SEE MAP	wetland	
REL-CFS-01-145	12 in	SEE MAP	wetland	
REL-CFS-01-146	12 in	SEE MAP	wetland	
REL-CFS-01-147	12 in	SEE MAP	wetland	
REL-CFS-01-148	12 in	SEE MAP	wetland	
REL-CFS-01-149	12 in	SEE MAP	wetland	
REL-CFS-01-150	12 in	SEE MAP	wetland	
REL-CFS-01-151	12 in	SEE MAP	wetland	
REL-CFS-01-152	12 in	SEE MAP	wetland	
REL-CFS-01-153	12 in	SEE MAP	6.8%	177
REL-CFS-01-154	12 in	SEE MAP	6.8%	177
REL-CFS-01-155	12 in	SEE MAP	6.8%	177
REL-CFS-01-156	12 in	SEE MAP	6.8%	177
REL-CFS-01-157	12 in	SEE MAP	6.8%	177
REL-CFS-01-158	12 in	SEE MAP	wetland	
REL-CFS-01-159	12 in	SEE MAP	9.5%	147
REL-CFS-01-160	12 in	SEE MAP	9.5%	147
REL-CFS-01-161	12 in	SEE MAP	10.4%	135
REL-CFS-01-162	12 in	SEE MAP	10.4%	135
REL-CFS-01-163	12 in	SEE MAP	10.4%	135
REL-CFS-01-164	12 in	SEE MAP	10.4%	135
REL-CFS-01-165	12 in	SEE MAP	4.9%	162
REL-CFS-01-166	18 in	SEE MAP	18.6%	140
REL-CFS-01-167	18 in	SEE MAP	18.6%	140
REL-CFS-01-168	18 in	SEE MAP	18.6%	140
REL-CFS-01-169	18 in	SEE MAP	18.6%	140
REL-CFS-01-170	18 in	SEE MAP	18.6%	140
REL-CFS-01-171	18 in	SEE MAP	18.6%	140
REL-CFS-01-172	18 in	SEE MAP	18.6%	140
REL-CFS-01-173	18 in	SEE MAP	18.6%	140

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-01-174	18 in	SEE MAP	18.6%	140
REL-CFS-01-175	18 in	SEE MAP	18.6%	140
REL-CFS-01-176	18 in	SEE MAP	18.6%	140
REL-CFS-01-177	12 in	SEE MAP	32.3%	31
REL-CFS-01-178	12 in	SEE MAP	26.8%	41
REL-CFS-01-179	12 in	SEE MAP	26.8%	41
REL-CFS-01-180	12 in	SEE MAP	26.8%	41
REL-CFS-01-181	12 in	SEE MAP	26.8%	41
REL-CFS-01-182	12 in	SEE MAP	26.8%	41
REL-CFS-01-183	12 in	SEE MAP	26.8%	41
REL-CFS-01-184	12 in	SEE MAP	14.7%	68
REL-CFS-01-185	12 in	SEE MAP	14.7%	68
REL-CFS-01-186	12 in	SEE MAP	14.7%	68
REL-CFS-01-187	12 in	SEE MAP	14.7%	68
REL-CFS-01-188	12 in	SEE MAP	14.7%	68
REL-CFS-01-189	12 in	SEE MAP	10.0%	40
REL-CFS-01-190	12 in	SEE MAP	10.0%	40
REL-CFS-01-191	12 in	SEE MAP	wetland	
REL-CFS-01-192	12 in	SEE MAP	wetland	
REL-CFS-01-193	12 in	SEE MAP	wetland	
REL-CFS-01-194	12 in	SEE MAP	wetland	
REL-CFS-01-195	12 in	SEE MAP	wetland	
REL-CFS-01-196	12 in	SEE MAP	wetland	
REL-CFS-01-197	12 in	SEE MAP	wetland	
REL-CFS-01-198	12 in	SEE MAP	wetland	
REL-CFS-01-199	12 in	SEE MAP	wetland	
REL-CFS-01-200	12 in	SEE MAP	wetland	
REL-CFS-01-201	12 in	SEE MAP	wetland	
REL-CFS-01-202	12 in	SEE MAP	wetland	
REL-CFS-01-203	12 in	SEE MAP	wetland	
REL-CFS-01-204	12 in	SEE MAP	wetland	
REL-CFS-01-205	12 in	SEE MAP	wetland	
REL-CFS-01-206	12 in	SEE MAP	wetland	
REL-CFS-01-207	12 in	SEE MAP	wetland	
REL-CFS-01-208	12 in	SEE MAP	wetland	
REL-CFS-01-209	12 in	SEE MAP	wetland	
REL-CFS-01-210	12 in	SEE MAP	wetland	
REL-CFS-01-211	12 in	SEE MAP	wetland	
REL-CFS-01-212	12 in	SEE MAP	wetland	
REL-CFS-01-213	12 in	SEE MAP	wetland	
REL-CFS-01-214	12 in	SEE MAP	wetland	

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-01-215	12 in	SEE MAP	wetland	
REL-CFS-01-216	12 in	SEE MAP	wetland	
REL-CFS-01-217	12 in	SEE MAP	wetland	
REL-CFS-01-218	12 in	SEE MAP	wetland	
REL-CFS-01-219	12 in	SEE MAP	wetland	
REL-CFS-01-220	12 in	SEE MAP	wetland	
REL-CFS-01-221	12 in	SEE MAP	wetland	
REL-CFS-01-222	12 in	SEE MAP	wetland	
REL-CFS-01-223	12 in	SEE MAP	wetland	
REL-CFS-01-224	12 in	SEE MAP	wetland	
REL-CFS-01-225	12 in	SEE MAP	wetland	
REL-CFS-01-226	12 in	SEE MAP	3.8%	263
REL-CFS-01-227	12 in	SEE MAP	3.8%	263
REL-CFS-01-228	12 in	SEE MAP	3.8%	263
REL-CFS-01-229	12 in	SEE MAP	3.8%	263
REL-CFS-01-230	12 in	SEE MAP	3.8%	263
REL-CFS-01-231	12 in	SEE MAP	wetland	
REL-CFS-01-232	12 in	SEE MAP	wetland	
REL-CFS-01-233	12 in	SEE MAP	wetland	
REL-CFS-01-234	12 in	SEE MAP	wetland	
REL-CFS-01-235	12 in	SEE MAP	12.5%	32
REL-CFS-01-236	12 in	SEE MAP	wetland	
REL-CFS-01-237	12 in	SEE MAP	wetland	
REL-CFS-01-238	12 in	SEE MAP	wetland	
REL-CFS-02-001	18 in	SEE MAP	5.6%	249
REL-CFS-02-002	18 in	SEE MAP	5.6%	249
REL-CFS-02-003	18 in	SEE MAP	5.6%	249
REL-CFS-02-004	18 in	SEE MAP	5.6%	249
REL-CFS-02-005	18 in	SEE MAP	5.6%	249
REL-CFS-02-006	18 in	SEE MAP	5.6%	249
REL-CFS-02-007	18 in	SEE MAP	5.6%	249
REL-CFS-02-008	18 in	SEE MAP	10.2%	157
REL-CFS-02-009	18 in	SEE MAP	10.2%	157
REL-CFS-02-010	18 in	SEE MAP	10.2%	157
REL-CFS-02-011	18 in	SEE MAP	10.2%	157
REL-CFS-02-012	18 in	SEE MAP	10.2%	157
REL-CFS-02-013	18 in	SEE MAP	10.2%	157
REL-CFS-02-014	18 in	SEE MAP	10.2%	157
REL-CFS-02-015	18 in	SEE MAP	10.2%	157
REL-CFS-02-016	12 in	SEE MAP	11.9%	134
REL-CFS-02-017	12 in	SEE MAP	11.9%	134

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-02-018	12 in	SEE MAP	11.9%	134
REL-CFS-02-019	12 in	SEE MAP	11.9%	134
REL-CFS-02-020	12 in	SEE MAP	11.9%	134
REL-CFS-02-021	12 in	SEE MAP	11.9%	134
REL-CFS-02-022	12 in	SEE MAP	11.9%	134
REL-CFS-02-023	12 in	SEE MAP	11.9%	134
REL-CFS-02-024	12 in	SEE MAP	11.9%	134
REL-CFS-02-025	12 in	SEE MAP	9.5%	127
REL-CFS-02-026	12 in	SEE MAP	9.5%	127
REL-CFS-02-027	12 in	SEE MAP	9.5%	127
REL-CFS-02-028	12 in	SEE MAP	9.5%	127
REL-CFS-02-029	12 in	SEE MAP	9.5%	127
REL-CFS-02-030	12 in	SEE MAP	9.5%	127
REL-CFS-02-031	12 in	SEE MAP	6.7%	30
REL-CFS-02-032	12 in	SEE MAP	6.7%	30
REL-CFS-02-033	12 in	SEE MAP	6.7%	30
REL-CFS-02-034	12 in	SEE MAP	6.7%	30
REL-CFS-02-035	12 in	SEE MAP	6.7%	30
REL-CFS-02-036	12 in	SEE MAP	6.7%	30
REL-CFS-02-037	12 in	SEE MAP	wetland	
REL-CFS-02-038	12 in	SEE MAP	wetland	
REL-CFS-02-039	12 in	SEE MAP	wetland	
REL-CFS-02-040	12 in	SEE MAP	wetland	
REL-CFS-02-041	18 in	SEE MAP	10.7%	168
REL-CFS-02-042	12 in	SEE MAP	9.4%	106
REL-CFS-02-043	12 in	SEE MAP	9.4%	106
REL-CFS-02-044	12 in	SEE MAP	9.4%	106
REL-CFS-02-045	12 in	SEE MAP	9.4%	106
REL-CFS-02-046	12 in	SEE MAP	6.9%	29
REL-CFS-02-047	12 in	SEE MAP	6.9%	29
REL-CFS-02-048	12 in	SEE MAP	6.9%	29
REL-CFS-02-049	12 in	SEE MAP	6.9%	29
REL-CFS-02-050	12 in	SEE MAP	6.9%	29
REL-CFS-02-051	12 in	SEE MAP	6.9%	29
REL-CFS-02-052	12 in	SEE MAP	6.9%	29
REL-CFS-02-053	12 in	SEE MAP	6.9%	29
REL-CFS-02-054	12 in	SEE MAP	6.9%	29
REL-CFS-02-055	12 in	SEE MAP	6.9%	29
REL-CFS-02-056	12 in	SEE MAP	7.9%	178
REL-CFS-02-057	12 in	SEE MAP	7.9%	178
REL-CFS-02-058	12 in	SEE MAP	wetland	

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-02-059	12 in	SEE MAP	wetland	
REL-CFS-02-060	12 in	SEE MAP	wetland	
REL-CFS-02-061	12 in	SEE MAP	wetland	
REL-CFS-02-062	12 in	SEE MAP	wetland	
REL-CFS-02-063	12 in	SEE MAP	wetland	
REL-CFS-02-064	12 in	SEE MAP	wetland	
REL-CFS-02-065	12 in	SEE MAP	wetland	
REL-CFS-02-066	12 in	SEE MAP	wetland	
REL-CFS-02-067	12 in	SEE MAP	8.3%	144
REL-CFS-02-068	12 in	SEE MAP	8.3%	144
REL-CFS-02-069	12 in	SEE MAP	8.3%	144
REL-CFS-02-070	12 in	SEE MAP	8.3%	144
REL-CFS-02-071	12 in	SEE MAP	8.3%	144
REL-CFS-02-072	12 in	SEE MAP	8.3%	144
REL-CFS-02-073	12 in	SEE MAP	8.3%	144
REL-CFS-02-074	12 in	SEE MAP	8.3%	144
REL-CFS-02-075	12 in	SEE MAP	9.8%	92
REL-CFS-02-076	12 in	SEE MAP	9.8%	92
REL-CFS-02-077	12 in	SEE MAP	9.8%	92
REL-CFS-02-078	12 in	SEE MAP	9.8%	92
REL-CFS-02-079	12 in	SEE MAP	18.5%	54
REL-CFS-02-080	12 in	SEE MAP	18.5%	54
REL-CFS-02-081	12 in	SEE MAP	18.5%	54
REL-CFS-02-082	12 in	SEE MAP	18.5%	54
REL-CFS-02-083	12 in	SEE MAP	8.4%	131
REL-CFS-02-084	12 in	SEE MAP	4.8%	63
REL-CFS-02-085	12 in	SEE MAP	9.4%	32
REL-CFS-02-086	12 in	SEE MAP	wetland	
REL-CFS-02-087	12 in	SEE MAP	wetland	
REL-CFS-02-088	12 in	SEE MAP	wetland	
REL-CFS-02-089	12 in	SEE MAP	16.7%	12
REL-CFS-02-090	12 in	SEE MAP	12.8%	39
REL-CFS-02-091	12 in	SEE MAP	12.8%	39
REL-CFS-02-092	12 in	SEE MAP	12.8%	39
REL-CFS-02-093	12 in	SEE MAP	5.4%	186
REL-CFS-02-094	12 in	SEE MAP	5.4%	186
REL-CFS-02-095	12 in	SEE MAP	5.4%	186
REL-CFS-02-096	12 in	SEE MAP	5.4%	186
REL-CFS-02-097	12 in	SEE MAP	9.8%	92
REL-CFS-02-098	12 in	SEE MAP	9.8%	92
REL-CFS-02-099	12 in	SEE MAP	9.8%	92

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-02-100	12 in	SEE MAP	9.8%	92
REL-CFS-02-101	12 in	SEE MAP	10.5%	38
REL-CFS-02-102	12 in	SEE MAP	10.5%	38
REL-CFS-02-103	12 in	SEE MAP	14.6%	96
REL-CFS-02-104	12 in	SEE MAP	14.6%	96
REL-CFS-02-105	12 in	SEE MAP	14.6%	96
REL-CFS-02-106	12 in	SEE MAP	14.6%	96
REL-CFS-02-107	12 in	SEE MAP	14.6%	96
REL-CFS-02-108	12 in	SEE MAP	14.6%	96
REL-CFS-02-109	12 in	SEE MAP	12.2%	49
REL-CFS-02-110	12 in	SEE MAP	12.2%	49
REL-CFS-02-111	12 in	SEE MAP	11.3%	71
REL-CFS-02-112	12 in	SEE MAP	16.7%	54
REL-CFS-02-113	12 in	SEE MAP	16.7%	54
REL-CFS-02-114	12 in	SEE MAP	16.7%	54
REL-CFS-02-115	12 in	SEE MAP	16.7%	54
REL-CFS-02-116	12 in	SEE MAP	16.7%	54
REL-CFS-02-117	18 in	SEE MAP	25.3%	79
REL-CFS-02-118	18 in	SEE MAP	25.3%	79
REL-CFS-02-119	18 in	SEE MAP	25.3%	79
REL-CFS-02-120	18 in	SEE MAP	25.3%	79
REL-CFS-02-121	18 in	SEE MAP	25.3%	79
REL-CFS-02-122	18 in	SEE MAP	25.3%	79
REL-CFS-02-123	18 in	SEE MAP	25.3%	79
REL-CFS-02-124	18 in	SEE MAP	25.3%	79
REL-CFS-02-125	18 in	SEE MAP	25.3%	79
REL-CFS-02-126	18 in	SEE MAP	25.3%	79
REL-CFS-02-127	18 in	SEE MAP	25.3%	79
REL-CFS-02-128	32 in	SEE MAP	43.2%	74
REL-CFS-02-129	32 in	SEE MAP	43.2%	74
REL-CFS-02-130	32 in	SEE MAP	43.2%	74
REL-CFS-02-131	32 in	SEE MAP	43.2%	74
REL-CFS-02-132	32 in	SEE MAP	43.2%	74
REL-CFS-02-133	32 in	SEE MAP	43.2%	74
REL-CFS-02-134	32 in	SEE MAP	43.2%	74
REL-CFS-02-135	32 in	SEE MAP	43.2%	74
REL-CFS-02-136	32 in	SEE MAP	43.2%	74
REL-CFS-02-137	32 in	SEE MAP	43.2%	74
REL-CFS-02-138	32 in	SEE MAP	43.2%	74
REL-CFS-02-139	32 in	SEE MAP	43.2%	74
REL-CFS-02-140	32 in	SEE MAP	43.2%	74

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-02-141	32 in	SEE MAP	43.2%	74
REL-CFS-02-142	32 in	SEE MAP	43.2%	74
REL-CFS-02-143	32 in	SEE MAP	43.2%	74
REL-CFS-02-144	32 in	SEE MAP	16.5%	194
REL-CFS-02-145	32 in	SEE MAP	16.5%	194
REL-CFS-02-146	32 in	SEE MAP	16.5%	194
REL-CFS-02-147	32 in	SEE MAP	16.5%	194
REL-CFS-02-148	32 in	SEE MAP	16.5%	194
REL-CFS-02-149	32 in	SEE MAP	16.5%	194
REL-CFS-02-150	32 in	SEE MAP	16.5%	194
REL-CFS-02-151	32 in	SEE MAP	16.5%	194
REL-CFS-02-152	32 in	SEE MAP	16.5%	194
REL-CFS-02-153	32 in	SEE MAP	16.5%	194
REL-CFS-02-154	32 in	SEE MAP	16.5%	194
REL-CFS-02-155	32 in	SEE MAP	16.5%	194
REL-CFS-02-156	32 in	SEE MAP	16.5%	194
REL-CFS-02-157	12 in	SEE MAP	wetland	
REL-CFS-02-158	12 in	SEE MAP	wetland	
REL-CFS-02-159	12 in	SEE MAP	wetland	
REL-CFS-02-160	12 in	SEE MAP	wetland	
REL-CFS-02-161	12 in	SEE MAP	wetland	
REL-CFS-02-162	12 in	SEE MAP	wetland	
REL-CFS-02-163	12 in	SEE MAP	wetland	
REL-CFS-02-164	12 in	SEE MAP	wetland	
REL-CFS-02-165	12 in	SEE MAP	wetland	
REL-CFS-02-166	18 in	SEE MAP	wetland	
REL-CFS-02-167	18 in	SEE MAP	wetland	
REL-CFS-02-168	18 in	SEE MAP	17.5%	103
REL-CFS-02-169	18 in	SEE MAP	17.5%	103
REL-CFS-02-170	18 in	SEE MAP	17.5%	103
REL-CFS-02-171	18 in	SEE MAP	17.5%	103
REL-CFS-02-172	12 in	SEE MAP	wetland	
REL-CFS-02-173	12 in	SEE MAP	wetland	
REL-CFS-02-174	12 in	SEE MAP	wetland	
REL-CFS-02-175	12 in	SEE MAP	wetland	
REL-CFS-02-176	12 in	SEE MAP	wetland	
REL-CFS-02-177	12 in	SEE MAP	wetland	
REL-CFS-02-178	12 in	SEE MAP	wetland	
REL-CFS-02-179	12 in	SEE MAP	wetland	
REL-CFS-02-180	12 in	SEE MAP	wetland	
REL-CFS-02-181	12 in	SEE MAP	14.5%	55

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-02-182	12 in	SEE MAP	14.5%	55
REL-CFS-02-183	12 in	SEE MAP	14.5%	55
REL-CFS-02-184	12 in	SEE MAP	14.5%	55
REL-CFS-02-185	12 in	SEE MAP	14.5%	55
REL-CFS-02-186	18 in	SEE MAP	17.8%	146
REL-CFS-02-187	18 in	SEE MAP	17.8%	146
REL-CFS-02-188	18 in	SEE MAP	17.8%	146
REL-CFS-02-189	18 in	SEE MAP	17.8%	146
REL-CFS-02-190	18 in	SEE MAP	17.8%	146
REL-CFS-02-191	18 in	SEE MAP	17.8%	146
REL-CFS-02-192	12 in	SEE MAP	10.0%	40
REL-CFS-02-193	12 in	SEE MAP	7.4%	81
REL-CFS-02-194	12 in	SEE MAP	7.4%	81
REL-CFS-02-195	12 in	SEE MAP	10.2%	118
REL-CFS-02-196	12 in	SEE MAP	10.2%	118
REL-CFS-02-197	12 in	SEE MAP	10.2%	118
REL-CFS-02-198	12 in	SEE MAP	10.2%	118
REL-CFS-02-199	12 in	SEE MAP	10.2%	118
REL-CFS-02-200	12 in	SEE MAP	10.2%	118
REL-CFS-02-201	12 in	SEE MAP	8.3%	24
REL-CFS-02-202	12 in	SEE MAP	wetland	
REL-CFS-02-203	12 in	SEE MAP	wetland	
REL-CFS-02-204	12 in	SEE MAP	16.0%	75
REL-CFS-02-205	12 in	SEE MAP	25.0%	40
REL-CFS-02-206	12 in	SEE MAP	25.0%	40
REL-CFS-02-207	12 in	SEE MAP	25.0%	40
REL-CFS-02-208	12 in	SEE MAP	25.0%	40
REL-CFS-02-209	12 in	SEE MAP	25.0%	40
REL-CFS-02-210	18 in	SEE MAP	19.1%	94
REL-CFS-02-211	18 in	SEE MAP	19.1%	94
REL-CFS-02-212	18 in	SEE MAP	19.1%	94
REL-CFS-02-213	18 in	SEE MAP	19.1%	94
REL-CFS-02-214	18 in	SEE MAP	19.1%	94
REL-CFS-02-215	18 in	SEE MAP	19.1%	94
REL-CFS-02-216	18 in	SEE MAP	19.1%	94
REL-CFS-02-217	18 in	SEE MAP	21.5%	93
REL-CFS-02-218	18 in	SEE MAP	21.5%	93
REL-CFS-02-219	18 in	SEE MAP	21.5%	93
REL-CFS-02-220	18 in	SEE MAP	21.5%	93
REL-CFS-02-221	18 in	SEE MAP	21.5%	93
REL-CFS-02-222	12 in	SEE MAP	7.0%	43

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-02-223	12 in	SEE MAP	wetland	
REL-CFS-02-224	18 in	SEE MAP	11.1%	144
REL-CFS-02-225	18 in	SEE MAP	11.1%	144
REL-CFS-02-226	18 in	SEE MAP	11.1%	144
REL-CFS-02-227	12 in	SEE MAP	wetland	
REL-CFS-02-228	12 in	SEE MAP	wetland	
REL-CFS-02-229	12 in	SEE MAP	wetland	
REL-CFS-02-230	12 in	SEE MAP	wetland	
REL-CFS-02-231	12 in	SEE MAP	wetland	
REL-CFS-02-232	12 in	SEE MAP	wetland	
REL-CFS-02-233	12 in	SEE MAP	wetland	
REL-CFS-02-234	12 in	SEE MAP	wetland	
REL-CFS-02-235	12 in	SEE MAP	wetland	
REL-CFS-02-236	12 in	SEE MAP	wetland	
REL-CFS-02-237	12 in	SEE MAP	wetland	
REL-CFS-02-238	12 in	SEE MAP	wetland	
REL-CFS-02-239	12 in	SEE MAP	wetland	
REL-CFS-02-240	12 in	SEE MAP	wetland	
REL-CFS-02-241	12 in	SEE MAP	wetland	
REL-CFS-02-242	12 in	SEE MAP	wetland	
REL-CFS-02-243	12 in	SEE MAP	wetland	
REL-CFS-02-244	12 in	SEE MAP	wetland	
REL-CFS-02-245	12 in	SEE MAP	wetland	
REL-CFS-02-246	12 in	SEE MAP	wetland	
REL-CFS-02-247	12 in	SEE MAP	wetland	
REL-CFS-02-248	12 in	SEE MAP	wetland	
REL-CFS-02-249	12 in	SEE MAP	wetland	
REL-CFS-02-250	12 in	SEE MAP	wetland	
REL-CFS-02-251	18 in	SEE MAP	13.1%	175
REL-CFS-02-252	18 in	SEE MAP	13.1%	175
REL-CFS-02-253	18 in	SEE MAP	13.1%	175
REL-CFS-02-254	12 in	SEE MAP	6.6%	61
REL-CFS-02-255	12 in	SEE MAP	6.6%	61
REL-CFS-02-256	12 in	SEE MAP	16.7%	12
REL-CFS-02-257	12 in	SEE MAP	10.0%	50
REL-CFS-02-258	12 in	SEE MAP	10.0%	50
REL-CFS-02-259	12 in	SEE MAP	10.0%	50
REL-CFS-02-260	12 in	SEE MAP	wetland	
REL-CFS-02-261	12 in	SEE MAP	wetland	
REL-CFS-02-262	12 in	SEE MAP	wetland	
REL-CFS-02-263	12 in	SEE MAP	wetland	

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-02-264	12 in	SEE MAP	wetland	
REL-CFS-02-265	12 in	SEE MAP	wetland	
REL-CFS-02-266	12 in	SEE MAP	wetland	
REL-CFS-02-267	12 in	SEE MAP	wetland	
REL-CFS-02-268	12 in	SEE MAP	wetland	
REL-CFS-02-269	12 in	SEE MAP	wetland	
REL-CFS-02-270	12 in	SEE MAP	wetland	
REL-CFS-02-271	12 in	SEE MAP	13.7%	51
REL-CFS-02-272	12 in	SEE MAP	13.7%	51
REL-CFS-02-273	12 in	SEE MAP	13.7%	51
REL-CFS-02-274	12 in	SEE MAP	13.7%	51
REL-CFS-02-275	12 in	SEE MAP	13.7%	51
REL-CFS-02-276	12 in	SEE MAP	5.0%	121
REL-CFS-02-277	12 in	SEE MAP	5.0%	121
REL-CFS-02-278	12 in	SEE MAP	5.0%	121
REL-CFS-02-279	12 in	SEE MAP	10.6%	66
REL-CFS-02-280	12 in	SEE MAP	wetland	
REL-CFS-02-281	12 in	SEE MAP	6.1%	33
REL-CFS-02-282	12 in	SEE MAP	6.1%	33
REL-CFS-02-283	12 in	SEE MAP	24.4%	41
REL-CFS-02-284	12 in	SEE MAP	20.6%	34
REL-CFS-02-285	12 in	SEE MAP	20.6%	34
REL-CFS-02-286	12 in	SEE MAP	20.6%	34
REL-CFS-02-287	12 in	SEE MAP	20.6%	34
REL-CFS-03-001	18 in	SEE MAP	21.5%	93
REL-CFS-03-002	18 in	SEE MAP	21.5%	93
REL-CFS-03-003	18 in	SEE MAP	21.5%	93
REL-CFS-03-004	18 in	SEE MAP	21.5%	93
REL-CFS-03-005	18 in	SEE MAP	21.5%	93
REL-CFS-03-006	18 in	SEE MAP	21.5%	93
REL-CFS-03-007	18 in	SEE MAP	14.2%	113
REL-CFS-03-008	18 in	SEE MAP	14.2%	113
REL-CFS-03-009	18 in	SEE MAP	14.2%	113
REL-CFS-03-010	18 in	SEE MAP	14.2%	113
REL-CFS-03-011	18 in	SEE MAP	14.2%	113
REL-CFS-03-012	18 in	SEE MAP	14.2%	113
REL-CFS-03-013	18 in	SEE MAP	11.0%	218
REL-CFS-03-014	18 in	SEE MAP	11.0%	218
REL-CFS-03-015	18 in	SEE MAP	5.4%	313
REL-CFS-03-016	18 in	SEE MAP	5.4%	313
REL-CFS-03-017	18 in	SEE MAP	5.4%	313

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-03-018	18 in	SEE MAP	5.4%	313
REL-CFS-03-019	18 in	SEE MAP	5.4%	313
REL-CFS-03-020	18 in	SEE MAP	5.4%	313
REL-CFS-03-021	18 in	SEE MAP	5.4%	313
REL-CFS-03-022	12 in	SEE MAP	5.4%	37
REL-CFS-03-023	12 in	SEE MAP	10.3%	116
REL-CFS-03-024	12 in	SEE MAP	10.3%	116
REL-CFS-03-025	12 in	SEE MAP	10.3%	116
REL-CFS-03-026	12 in	SEE MAP	10.3%	116
REL-CFS-03-027	12 in	SEE MAP	10.3%	116
REL-CFS-03-028	12 in	SEE MAP	10.3%	116
REL-CFS-03-029	12 in	SEE MAP	10.3%	116
REL-CFS-03-030	12 in	SEE MAP	5.0%	40
REL-CFS-03-031	12 in	SEE MAP	6.4%	110
REL-CFS-03-032	12 in	SEE MAP	6.4%	110
REL-CFS-03-033	12 in	SEE MAP	6.4%	110
REL-CFS-03-034	12 in	SEE MAP	9.5%	158
REL-CFS-03-035	12 in	SEE MAP	9.5%	158
REL-CFS-03-036	12 in	SEE MAP	9.5%	158
REL-CFS-03-037	18 in	SEE MAP	9.5%	201
REL-CFS-03-038	18 in	SEE MAP	9.5%	201
REL-CFS-03-039	18 in	SEE MAP	9.5%	201
REL-CFS-03-040	18 in	SEE MAP	9.5%	201
REL-CFS-03-041	12 in	SEE MAP	19.4%	67
REL-CFS-03-042	12 in	SEE MAP	19.4%	67
REL-CFS-03-043	12 in	SEE MAP	19.4%	67
REL-CFS-03-044	12 in	SEE MAP	19.4%	67
REL-CFS-03-045	12 in	SEE MAP	19.4%	67
REL-CFS-03-046	12 in	SEE MAP	19.4%	67
REL-CFS-03-047	18 in	SEE MAP	17.0%	141
REL-CFS-03-048	12 in	SEE MAP	7.5%	40
REL-CFS-03-049	12 in	SEE MAP	7.0%	115
REL-CFS-03-050	12 in	SEE MAP	wetland	
REL-CFS-03-051	12 in	SEE MAP	wetland	
REL-CFS-03-052	12 in	SEE MAP	wetland	
REL-CFS-03-053	12 in	SEE MAP	wetland	
REL-CFS-03-054	12 in	SEE MAP	wetland	
REL-CFS-03-055	12 in	SEE MAP	wetland	
REL-CFS-03-056	12 in	SEE MAP	wetland	
REL-CFS-03-057	12 in	SEE MAP	wetland	
REL-CFS-03-058	12 in	SEE MAP	wetland	

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-03-059	12 in	SEE MAP	wetland
REL-CFS-03-060	12 in	SEE MAP	wetland
REL-CFS-03-061	12 in	SEE MAP	wetland
REL-CFS-03-062	12 in	SEE MAP	wetland
REL-CFS-03-063	12 in	SEE MAP	wetland
REL-CFS-03-064	12 in	SEE MAP	wetland
REL-CFS-03-065	12 in	SEE MAP	wetland
REL-CFS-03-066	12 in	SEE MAP	wetland
REL-CFS-03-067	12 in	SEE MAP	wetland
REL-CFS-03-068	12 in	SEE MAP	wetland
REL-CFS-03-069	12 in	SEE MAP	wetland
REL-CFS-03-070	12 in	SEE MAP	wetland
REL-CFS-03-071	12 in	SEE MAP	wetland
REL-CFS-03-072	12 in	SEE MAP	wetland
REL-CFS-03-073	12 in	SEE MAP	wetland
REL-CFS-03-074	12 in	SEE MAP	wetland
REL-CFS-03-075	12 in	SEE MAP	wetland
REL-CFS-03-076	12 in	SEE MAP	wetland
REL-CFS-03-077	12 in	SEE MAP	wetland
REL-CFS-03-078	12 in	SEE MAP	wetland
REL-CFS-03-079	12 in	SEE MAP	wetland
REL-CFS-03-080	12 in	SEE MAP	wetland
REL-CFS-03-081	12 in	SEE MAP	wetland
REL-CFS-03-082	12 in	SEE MAP	wetland
REL-CFS-03-083	12 in	SEE MAP	wetland
REL-CFS-03-084	12 in	SEE MAP	wetland
REL-CFS-03-085	12 in	SEE MAP	wetland
REL-CFS-03-086	12 in	SEE MAP	wetland
REL-CFS-03-087	12 in	SEE MAP	wetland
REL-CFS-03-088	12 in	SEE MAP	wetland
REL-CFS-03-089	12 in	SEE MAP	wetland
REL-CFS-03-090	12 in	SEE MAP	wetland
REL-CFS-03-091	12 in	SEE MAP	wetland
REL-CFS-03-092	12 in	SEE MAP	wetland
REL-CFS-03-093	12 in	SEE MAP	wetland
REL-CFS-03-094	12 in	SEE MAP	wetland
REL-CFS-03-095	12 in	SEE MAP	wetland
REL-CFS-03-096	12 in	SEE MAP	wetland
REL-CFS-03-097	12 in	SEE MAP	wetland
REL-CFS-03-098	12 in	SEE MAP	wetland
REL-CFS-03-099	12 in	SEE MAP	wetland

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-03-100	12 in	SEE MAP	wetland	
REL-CFS-03-101	12 in	SEE MAP	wetland	
REL-CFS-03-102	12 in	SEE MAP	wetland	
REL-CFS-03-103	12 in	SEE MAP	wetland	
REL-CFS-03-104	12 in	SEE MAP	wetland	
REL-CFS-03-105	12 in	SEE MAP	wetland	
REL-CFS-03-106	12 in	SEE MAP	wetland	
REL-CFS-03-107	12 in	SEE MAP	wetland	
REL-CFS-03-108	12 in	SEE MAP	wetland	
REL-CFS-03-109	12 in	SEE MAP	wetland	
REL-CFS-03-110	12 in	SEE MAP	wetland	
REL-CFS-03-111	12 in	SEE MAP	wetland	
REL-CFS-03-112	12 in	SEE MAP	wetland	
REL-CFS-03-113	12 in	SEE MAP	wetland	
REL-CFS-03-114	12 in	SEE MAP	wetland	
REL-CFS-03-115	12 in	SEE MAP	wetland	
REL-CFS-03-116	12 in	SEE MAP	wetland	
REL-CFS-03-117	12 in	SEE MAP	wetland	
REL-CFS-03-118	12 in	SEE MAP	wetland	
REL-CFS-03-119	12 in	SEE MAP	wetland	
REL-CFS-03-120	12 in	SEE MAP	wetland	
REL-CFS-03-121	12 in	SEE MAP	wetland	
REL-CFS-03-122	12 in	SEE MAP	wetland	
REL-CFS-03-123	12 in	SEE MAP	wetland	
REL-CFS-03-124	12 in	SEE MAP	wetland	
REL-CFS-03-125	12 in	SEE MAP	wetland	
REL-CFS-03-126	12 in	SEE MAP	wetland	
REL-CFS-03-127	12 in	SEE MAP	wetland	
REL-CFS-03-128	12 in	SEE MAP	wetland	
REL-CFS-03-129	12 in	SEE MAP	wetland	
REL-CFS-03-130	12 in	SEE MAP	wetland	
REL-CFS-03-131	12 in	SEE MAP	wetland	
REL-CFS-03-132	12 in	SEE MAP	wetland	
REL-CFS-03-133	12 in	SEE MAP	wetland	
REL-CFS-03-134	12 in	SEE MAP	wetland	
REL-CFS-03-135	12 in	SEE MAP	wetland	
REL-CFS-03-136	12 in	SEE MAP	17.1%	35
REL-CFS-03-137	12 in	SEE MAP	17.1%	35
REL-CFS-03-138	12 in	SEE MAP	17.1%	35
REL-CFS-03-139	12 in	SEE MAP	5.5%	200
REL-CFS-03-140	12 in	SEE MAP	5.5%	200

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-03-141	12 in	SEE MAP	5.5%	200
REL-CFS-03-142	12 in	SEE MAP	5.5%	200
REL-CFS-03-143	12 in	SEE MAP	8.3%	24
REL-CFS-03-144	12 in	SEE MAP	8.3%	24
REL-CFS-03-145	12 in	SEE MAP	wetland	
REL-CFS-03-146	12 in	SEE MAP	wetland	
REL-CFS-03-147	12 in	SEE MAP	wetland	
REL-CFS-03-148	12 in	SEE MAP	wetland	
REL-CFS-03-149	12 in	SEE MAP	wetland	
REL-CFS-03-150	12 in	SEE MAP	wetland	
REL-CFS-03-151	12 in	SEE MAP	wetland	
REL-CFS-03-152	12 in	SEE MAP	wetland	
REL-CFS-03-153	12 in	SEE MAP	5.9%	118
REL-CFS-03-154	12 in	SEE MAP	5.9%	118
REL-CFS-03-155	12 in	SEE MAP	5.9%	118
REL-CFS-03-156	12 in	SEE MAP	5.9%	118
REL-CFS-03-157	12 in	SEE MAP	5.9%	118
REL-CFS-03-158	12 in	SEE MAP	wetland	
REL-CFS-03-159	12 in	SEE MAP	wetland	
REL-CFS-03-160	12 in	SEE MAP	wetland	
REL-CFS-03-161	12 in	SEE MAP	wetland	
REL-CFS-03-162	12 in	SEE MAP	40.0%	25
REL-CFS-03-163	12 in	SEE MAP	40.0%	25
REL-CFS-03-164	12 in	SEE MAP	40.0%	25
REL-CFS-03-165	12 in	SEE MAP	40.0%	25
REL-CFS-03-166	12 in	SEE MAP	35.7%	28
REL-CFS-03-167	12 in	SEE MAP	35.7%	28
REL-CFS-03-168	12 in	SEE MAP	35.7%	28
REL-CFS-03-169	12 in	SEE MAP	35.7%	28
REL-CFS-03-170	12 in	SEE MAP	35.7%	28
REL-CFS-03-171	12 in	SEE MAP	35.7%	28
REL-CFS-03-172	12 in	SEE MAP	56.3%	16
REL-CFS-03-173	12 in	SEE MAP	56.3%	16
REL-CFS-03-174	12 in	SEE MAP	56.3%	16
REL-CFS-03-175	12 in	SEE MAP	56.3%	16
REL-CFS-03-176	12 in	SEE MAP	56.3%	16
REL-CFS-03-177	24 in	SEE MAP	36.4%	66
REL-CFS-03-178	24 in	SEE MAP	36.4%	66
REL-CFS-03-179	24 in	SEE MAP	36.4%	66
REL-CFS-03-180	24 in	SEE MAP	36.4%	66
REL-CFS-03-181	12 in	SEE MAP	34.3%	35

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-03-182	12 in	SEE MAP	34.3%	35
REL-CFS-03-183	12 in	SEE MAP	34.3%	35
REL-CFS-03-184	12 in	SEE MAP	31.6%	19
REL-CFS-03-185	12 in	SEE MAP	31.6%	19
REL-CFS-03-186	12 in	SEE MAP	31.6%	19
REL-CFS-03-187	12 in	SEE MAP	4.3%	255
REL-CFS-03-188	12 in	SEE MAP	4.7%	212
REL-CFS-03-189	18 in	SEE MAP	14.4%	181
REL-CFS-03-190	18 in	SEE MAP	14.4%	181
REL-CFS-03-191	18 in	SEE MAP	14.4%	181
REL-CFS-03-192	18 in	SEE MAP	14.4%	181
REL-CFS-03-193	12 in	SEE MAP	wetland	
REL-CFS-03-194	12 in	SEE MAP	wetland	
REL-CFS-03-195	12 in	SEE MAP	wetland	
REL-CFS-03-196	12 in	SEE MAP	4.2%	95
REL-CFS-03-197	12 in	SEE MAP	36.8%	19
REL-CFS-03-198	12 in	SEE MAP	36.8%	19
REL-CFS-03-199	12 in	SEE MAP	36.8%	19
REL-CFS-03-200	12 in	SEE MAP	58.3%	12
REL-CFS-03-201	12 in	SEE MAP	58.3%	12
REL-CFS-03-202	24 in	SEE MAP	59.4%	32
REL-CFS-03-203	24 in	SEE MAP	59.4%	32
REL-CFS-03-204	24 in	SEE MAP	59.4%	32
REL-CFS-03-205	24 in	SEE MAP	59.4%	32
REL-CFS-03-206	24 in	SEE MAP	59.4%	32
REL-CFS-03-207	24 in	SEE MAP	59.4%	32
REL-CFS-03-208	24 in	SEE MAP	59.4%	32
REL-CFS-03-209	24 in	SEE MAP	59.4%	32
REL-CFS-03-210	24 in	SEE MAP	59.4%	32
REL-CFS-03-211	24 in	SEE MAP	59.4%	32
REL-CFS-03-212	24 in	SEE MAP	37.5%	64
REL-CFS-03-213	24 in	SEE MAP	37.5%	64
REL-CFS-03-214	24 in	SEE MAP	37.5%	64
REL-CFS-03-215	24 in	SEE MAP	37.5%	64
REL-CFS-03-216	24 in	SEE MAP	37.5%	64
REL-CFS-03-217	24 in	SEE MAP	37.5%	64
REL-CFS-03-218	24 in	SEE MAP	37.5%	64
REL-CFS-03-219	24 in	SEE MAP	37.5%	64
REL-CFS-03-220	24 in	SEE MAP	37.5%	64
REL-CFS-03-221	24 in	SEE MAP	37.5%	64
REL-CFS-03-222	12 in	SEE MAP	25.0%	16

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-03-223	12 in	SEE MAP	25.0%	16
REL-CFS-04-001	12 in	SEE MAP	5.5%	200
REL-CFS-04-002	12 in	SEE MAP	5.5%	200
REL-CFS-04-003	12 in	SEE MAP	5.5%	200
REL-CFS-04-004	12 in	SEE MAP	5.5%	200
REL-CFS-04-005	12 in	SEE MAP	9.2%	65
REL-CFS-04-006	12 in	SEE MAP	9.2%	65
REL-CFS-04-007	12 in	SEE MAP	5.4%	37
REL-CFS-04-008	24 in	SEE MAP	16.2%	198
REL-CFS-04-009	24 in	SEE MAP	16.2%	198
REL-CFS-04-010	24 in	SEE MAP	16.2%	198
REL-CFS-04-011	24 in	SEE MAP	16.2%	198
REL-CFS-04-012	24 in	SEE MAP	16.2%	198
REL-CFS-04-013	24 in	SEE MAP	16.2%	198
REL-CFS-04-014	24 in	SEE MAP	16.2%	198
REL-CFS-04-015	24 in	SEE MAP	16.2%	198
REL-CFS-04-016	24 in	SEE MAP	16.2%	198
REL-CFS-04-017	24 in	SEE MAP	16.2%	198
REL-CFS-04-018	24 in	SEE MAP	16.2%	198
REL-CFS-04-019	24 in	SEE MAP	16.2%	198
REL-CFS-04-020	24 in	SEE MAP	16.2%	198
REL-CFS-04-021	24 in	SEE MAP	16.2%	198
REL-CFS-04-022	24 in	SEE MAP	16.2%	198
REL-CFS-04-023	24 in	SEE MAP	16.2%	198
REL-CFS-04-024	24 in	SEE MAP	16.2%	198
REL-CFS-04-025	24 in	SEE MAP	16.2%	198
REL-CFS-04-026	24 in	SEE MAP	16.2%	198
REL-CFS-04-027	24 in	SEE MAP	16.2%	198
REL-CFS-04-028	24 in	SEE MAP	16.2%	198
REL-CFS-04-029	24 in	SEE MAP	16.2%	198
REL-CFS-04-030	12 in	SEE MAP	wetland	
REL-CFS-04-031	12 in	SEE MAP	wetland	
REL-CFS-04-032	18 in	SEE MAP	21.3%	75
REL-CFS-04-033	18 in	SEE MAP	21.3%	75
REL-CFS-04-034	18 in	SEE MAP	21.3%	75
REL-CFS-04-035	18 in	SEE MAP	21.3%	75
REL-CFS-04-036	18 in	SEE MAP	21.3%	75
REL-CFS-04-037	18 in	SEE MAP	21.3%	75
REL-CFS-04-038	18 in	SEE MAP	21.3%	75
REL-CFS-04-039	12 in	SEE MAP	23.1%	26
REL-CFS-04-040	12 in	SEE MAP	23.1%	26

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-04-041	18 in	SEE MAP	14.3%	147
REL-CFS-04-042	18 in	SEE MAP	14.3%	147
REL-CFS-04-043	18 in	SEE MAP	14.3%	147
REL-CFS-04-044	18 in	SEE MAP	14.3%	147
REL-CFS-04-045	18 in	SEE MAP	14.3%	147
REL-CFS-04-046	18 in	SEE MAP	14.3%	147
REL-CFS-04-047	18 in	SEE MAP	14.3%	147
REL-CFS-04-048	18 in	SEE MAP	14.3%	147
REL-CFS-04-049	18 in	SEE MAP	14.3%	147
REL-CFS-04-050	12 in	SEE MAP	7.2%	181
REL-CFS-04-051	12 in	SEE MAP	7.2%	181
REL-CFS-04-052	12 in	SEE MAP	7.2%	181
REL-CFS-04-053	12 in	SEE MAP	7.2%	181
REL-CFS-04-054	12 in	SEE MAP	7.2%	181
REL-CFS-04-055	12 in	SEE MAP	8.0%	137
REL-CFS-04-056	12 in	SEE MAP	8.0%	137
REL-CFS-04-057	12 in	SEE MAP	8.0%	137
REL-CFS-04-058	18 in	SEE MAP	17.0%	153
REL-CFS-04-059	18 in	SEE MAP	17.0%	153
REL-CFS-04-060	18 in	SEE MAP	17.0%	153
REL-CFS-04-061	18 in	SEE MAP	17.0%	153
REL-CFS-04-062	18 in	SEE MAP	17.0%	153
REL-CFS-04-063	18 in	SEE MAP	17.0%	153
REL-CFS-04-064	18 in	SEE MAP	17.0%	153
REL-CFS-04-065	12 in	SEE MAP	wetland	
REL-CFS-04-066	12 in	SEE MAP	2.5%	81
REL-CFS-04-067	12 in	SEE MAP	2.5%	81
REL-CFS-04-068	12 in	SEE MAP	wetland	
REL-CFS-04-069	12 in	SEE MAP	wetland	
REL-CFS-04-070	12 in	SEE MAP	wetland	
REL-CFS-04-071	12 in	SEE MAP	4.0%	101
REL-CFS-04-072	12 in	SEE MAP	4.0%	101
REL-CFS-04-073	12 in	SEE MAP	4.0%	101
REL-CFS-04-074	12 in	SEE MAP	4.0%	101
REL-CFS-04-075	12 in	SEE MAP	wetland	
REL-CFS-04-076	12 in	SEE MAP	wetland	
REL-CFS-04-077	12 in	SEE MAP	wetland	
REL-CFS-04-078	12 in	SEE MAP	wetland	
REL-CFS-04-079	12 in	SEE MAP	wetland	
REL-CFS-04-080	12 in	SEE MAP	wetland	
REL-CFS-04-081	12 in	SEE MAP	wetland	

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-04-082	12 in	SEE MAP	wetland	
REL-CFS-04-083	12 in	SEE MAP	wetland	
REL-CFS-04-084	32 in	SEE MAP	39.5%	76
REL-CFS-04-085	32 in	SEE MAP	39.5%	76
REL-CFS-04-086	12 in	SEE MAP	14.5%	83
REL-CFS-04-087	12 in	SEE MAP	14.5%	83
REL-CFS-04-088	12 in	SEE MAP	11.1%	63
REL-CFS-04-089	12 in	SEE MAP	11.1%	63
REL-CFS-04-090	12 in	SEE MAP	5.3%	187
REL-CFS-04-091	12 in	SEE MAP	5.3%	187
REL-CFS-04-092	12 in	SEE MAP	5.3%	187
REL-CFS-04-093	12 in	SEE MAP	wetland	
REL-CFS-04-094	12 in	SEE MAP	wetland	
REL-CFS-04-095	12 in	SEE MAP	wetland	
REL-CFS-04-096	12 in	SEE MAP	wetland	
REL-CFS-04-097	12 in	SEE MAP	wetland	
REL-CFS-04-098	12 in	SEE MAP	wetland	
REL-CFS-04-099	12 in	SEE MAP	wetland	
REL-CFS-04-100	18 in	SEE MAP	13.4%	134
REL-CFS-04-101	18 in	SEE MAP	13.4%	134
REL-CFS-04-102	12 in	SEE MAP	wetland	
REL-CFS-04-103	12 in	SEE MAP	wetland	
REL-CFS-04-104	12 in	SEE MAP	wetland	
REL-CFS-04-105	12 in	SEE MAP	wetland	
REL-CFS-04-106	12 in	SEE MAP	wetland	
REL-CFS-04-107	12 in	SEE MAP	wetland	
REL-CFS-04-108	12 in	SEE MAP	wetland	
REL-CFS-04-109	12 in	SEE MAP	wetland	
REL-CFS-04-110	12 in	SEE MAP	wetland	
REL-CFS-04-111	12 in	SEE MAP	wetland	
REL-CFS-04-112	12 in	SEE MAP	wetland	
REL-CFS-04-113	12 in	SEE MAP	wetland	
REL-CFS-04-114	12 in	SEE MAP	wetland	
REL-CFS-04-115	12 in	SEE MAP	wetland	
REL-CFS-04-116	12 in	SEE MAP	wetland	
REL-CFS-04-117	12 in	SEE MAP	wetland	
REL-CFS-04-118	12 in	SEE MAP	wetland	
REL-CFS-04-119	12 in	SEE MAP	wetland	
REL-CFS-04-120	12 in	SEE MAP	wetland	
REL-CFS-04-121	12 in	SEE MAP	wetland	
REL-CFS-04-122	12 in	SEE MAP	wetland	

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-04-123	12 in	SEE MAP	wetland
REL-CFS-04-124	12 in	SEE MAP	wetland
REL-CFS-04-125	12 in	SEE MAP	wetland
REL-CFS-04-126	12 in	SEE MAP	wetland
REL-CFS-04-127	12 in	SEE MAP	wetland
REL-CFS-04-128	12 in	SEE MAP	wetland
REL-CFS-04-129	12 in	SEE MAP	wetland
REL-CFS-04-130	12 in	SEE MAP	wetland
REL-CFS-04-131	12 in	SEE MAP	wetland
REL-CFS-04-132	12 in	SEE MAP	wetland
REL-CFS-04-133	12 in	SEE MAP	wetland
REL-CFS-04-134	12 in	SEE MAP	wetland
REL-CFS-04-135	12 in	SEE MAP	wetland
REL-CFS-04-136	12 in	SEE MAP	wetland
REL-CFS-04-137	12 in	SEE MAP	wetland
REL-CFS-04-138	12 in	SEE MAP	wetland
REL-CFS-04-139	12 in	SEE MAP	wetland
REL-CFS-04-140	12 in	SEE MAP	wetland
REL-CFS-04-141	12 in	SEE MAP	wetland
REL-CFS-04-142	12 in	SEE MAP	wetland
REL-CFS-04-143	12 in	SEE MAP	wetland
REL-CFS-04-144	12 in	SEE MAP	wetland
REL-CFS-04-145	12 in	SEE MAP	wetland
REL-CFS-04-146	12 in	SEE MAP	wetland
REL-CFS-04-147	12 in	SEE MAP	wetland
REL-CFS-04-148	12 in	SEE MAP	wetland
REL-CFS-04-149	12 in	SEE MAP	wetland
REL-CFS-04-150	12 in	SEE MAP	wetland
REL-CFS-04-151	12 in	SEE MAP	wetland
REL-CFS-04-152	12 in	SEE MAP	wetland
REL-CFS-04-153	12 in	SEE MAP	wetland
REL-CFS-04-154	12 in	SEE MAP	wetland
REL-CFS-04-155	12 in	SEE MAP	wetland
REL-CFS-04-156	12 in	SEE MAP	wetland
REL-CFS-04-157	12 in	SEE MAP	wetland
REL-CFS-04-158	12 in	SEE MAP	wetland
REL-CFS-04-159	12 in	SEE MAP	wetland
REL-CFS-04-160	12 in	SEE MAP	wetland
REL-CFS-04-161	12 in	SEE MAP	wetland
REL-CFS-04-162	12 in	SEE MAP	wetland
REL-CFS-04-163	12 in	SEE MAP	wetland

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-04-164	12 in	SEE MAP	wetland	
REL-CFS-04-165	12 in	SEE MAP	wetland	
REL-CFS-04-166	12 in	SEE MAP	wetland	
REL-CFS-04-167	12 in	SEE MAP	wetland	
REL-CFS-04-168	12 in	SEE MAP	wetland	
REL-CFS-04-169	12 in	SEE MAP	wetland	
REL-CFS-04-170	12 in	SEE MAP	wetland	
REL-CFS-04-171	12 in	SEE MAP	wetland	
REL-CFS-04-172	12 in	SEE MAP	wetland	
REL-CFS-04-173	12 in	SEE MAP	wetland	
REL-CFS-04-174	12 in	SEE MAP	wetland	
REL-CFS-04-175	12 in	SEE MAP	wetland	
REL-CFS-04-176	12 in	SEE MAP	wetland	
REL-CFS-04-177	12 in	SEE MAP	wetland	
REL-CFS-04-178	12 in	SEE MAP	wetland	
REL-CFS-04-179	18 in	SEE MAP	17.5%	171
REL-CFS-04-180	18 in	SEE MAP	17.5%	171
REL-CFS-04-181	12 in	SEE MAP	16.7%	48
REL-CFS-04-182	12 in	SEE MAP	16.7%	48
REL-CFS-04-183	12 in	SEE MAP	16.7%	48
REL-CFS-04-184	12 in	SEE MAP	wetland	
REL-CFS-04-185	12 in	SEE MAP	wetland	
REL-CFS-04-186	12 in	SEE MAP	wetland	
REL-CFS-04-187	12 in	SEE MAP	2.5%	81
REL-CFS-04-188	12 in	SEE MAP	20.7%	29
REL-CFS-04-189	12 in	SEE MAP	20.7%	29
REL-CFS-04-190	12 in	SEE MAP	20.7%	29
REL-CFS-04-191	12 in	SEE MAP	20.7%	29
REL-CFS-04-192	12 in	SEE MAP	20.7%	29
REL-CFS-04-193	24 in	SEE MAP	33.3%	66
REL-CFS-04-194	24 in	SEE MAP	33.3%	66
REL-CFS-04-195	24 in	SEE MAP	33.3%	66
REL-CFS-04-196	24 in	SEE MAP	33.3%	66
REL-CFS-04-197	24 in	SEE MAP	33.3%	66
REL-CFS-04-198	24 in	SEE MAP	33.3%	66
REL-CFS-04-199	24 in	SEE MAP	33.3%	66
REL-CFS-04-200	24 in	SEE MAP	33.3%	66
REL-CFS-04-201	24 in	SEE MAP	33.3%	66
REL-CFS-04-202	12 in	SEE MAP	wetland	
REL-CFS-04-203	12 in	SEE MAP	wetland	
REL-CFS-04-204	12 in	SEE MAP	wetland	

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-04-205	12 in	SEE MAP	wetland	
REL-CFS-04-206	18 in	SEE MAP	19.3%	83
REL-CFS-04-207	18 in	SEE MAP	19.3%	83
REL-CFS-04-208	18 in	SEE MAP	19.3%	83
REL-CFS-04-209	18 in	SEE MAP	19.3%	83
REL-CFS-04-210	18 in	SEE MAP	19.3%	83
REL-CFS-04-211	18 in	SEE MAP	19.3%	83
REL-CFS-04-212	18 in	SEE MAP	19.3%	83
REL-CFS-04-213	18 in	SEE MAP	19.3%	83
REL-CFS-04-214	12 in	SEE MAP	21.1%	19
REL-CFS-04-215	12 in	SEE MAP	21.1%	19
REL-CFS-04-216	12 in	SEE MAP	12.7%	63
REL-CFS-04-217	12 in	SEE MAP	12.7%	63
REL-CFS-04-218	12 in	SEE MAP	12.7%	63
REL-CFS-04-219	12 in	SEE MAP	12.7%	63
REL-CFS-04-220	12 in	SEE MAP	12.7%	63
REL-CFS-04-221	12 in	SEE MAP	12.7%	63
REL-CFS-04-222	32 in	SEE MAP	50.0%	42
REL-CFS-04-223	32 in	SEE MAP	50.0%	42
REL-CFS-04-224	32 in	SEE MAP	50.0%	42
REL-CFS-04-225	32 in	SEE MAP	50.0%	42
REL-CFS-04-226	32 in	SEE MAP	50.0%	42
REL-CFS-04-227	32 in	SEE MAP	50.0%	42
REL-CFS-04-228	32 in	SEE MAP	50.0%	42
REL-CFS-04-229	32 in	SEE MAP	50.0%	42
REL-CFS-04-230	32 in	SEE MAP	50.0%	42
REL-CFS-04-231	32 in	SEE MAP	50.0%	42
REL-CFS-04-232	12 in	SEE MAP	wetland	
REL-CFS-04-233	12 in	SEE MAP	wetland	
REL-CFS-04-234	12 in	SEE MAP	wetland	
REL-CFS-04-235	12 in	SEE MAP	wetland	
REL-CFS-04-236	12 in	SEE MAP	wetland	
REL-CFS-04-237	18 in	SEE MAP	42.5%	40
REL-CFS-04-238	18 in	SEE MAP	42.5%	40
REL-CFS-04-239	18 in	SEE MAP	42.5%	40
REL-CFS-04-240	18 in	SEE MAP	42.5%	40
REL-CFS-04-241	18 in	SEE MAP	42.5%	40
REL-CFS-04-242	18 in	SEE MAP	42.5%	40
REL-CFS-04-243	18 in	SEE MAP	42.5%	40
REL-CFS-04-244	18 in	SEE MAP	42.5%	40
REL-CFS-04-245	12 in	SEE MAP	5.0%	219

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-04-246	12 in	SEE MAP	wetland	
REL-CFS-04-247	12 in	SEE MAP	wetland	
REL-CFS-04-248	18 in	SEE MAP	16.7%	96
REL-CFS-04-249	18 in	SEE MAP	16.7%	96
REL-CFS-04-250	18 in	SEE MAP	16.7%	96
REL-CFS-04-251	12 in	SEE MAP	wetland	
REL-CFS-04-252	12 in	SEE MAP	wetland	
REL-CFS-04-253	12 in	SEE MAP	wetland	
REL-CFS-04-254	12 in	SEE MAP	wetland	
REL-CFS-05-001	12 in	SEE MAP	wetland	
REL-CFS-05-002	12 in	SEE MAP	wetland	
REL-CFS-05-003	12 in	SEE MAP	wetland	
REL-CFS-05-004	12 in	SEE MAP	wetland	
REL-CFS-05-005	12 in	SEE MAP	12.0%	50
REL-CFS-05-006	12 in	SEE MAP	12.0%	50
REL-CFS-05-007	12 in	SEE MAP	12.0%	50
REL-CFS-05-008	12 in	SEE MAP	12.0%	50
REL-CFS-05-009	12 in	SEE MAP	3.2%	126
REL-CFS-05-010	12 in	SEE MAP	wetland	
REL-CFS-05-011	12 in	SEE MAP	2.3%	132
REL-CFS-05-012	12 in	SEE MAP	2.3%	132
REL-CFS-05-013	12 in	SEE MAP	2.6%	227
REL-CFS-05-014	12 in	SEE MAP	2.6%	227
REL-CFS-05-015	12 in	SEE MAP	2.6%	227
REL-CFS-05-016	12 in	SEE MAP	4.0%	252
REL-CFS-05-017	12 in	SEE MAP	4.0%	252
REL-CFS-05-018	12 in	SEE MAP	4.0%	252
REL-CFS-05-019	12 in	SEE MAP	4.0%	252
REL-CFS-05-020	12 in	SEE MAP	3.8%	209
REL-CFS-05-021	12 in	SEE MAP	3.8%	209
REL-CFS-05-022	12 in	SEE MAP	3.8%	209
REL-CFS-05-023	12 in	SEE MAP	1.5%	202
REL-CFS-05-024	12 in	SEE MAP	3.2%	219
REL-CFS-05-025	12 in	SEE MAP	3.2%	219
REL-CFS-05-026	12 in	SEE MAP	3.2%	219
REL-CFS-05-027	12 in	SEE MAP	3.2%	219
REL-CFS-05-028	12 in	SEE MAP	5.1%	234
REL-CFS-05-029	12 in	SEE MAP	5.1%	234
REL-CFS-05-030	12 in	SEE MAP	5.1%	234
REL-CFS-05-031	12 in	SEE MAP	5.1%	234
REL-CFS-05-032	12 in	SEE MAP	5.1%	234

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-05-033	12 in	SEE MAP	5.1%	234
REL-CFS-05-034	12 in	SEE MAP	6.3%	126
REL-CFS-05-035	12 in	SEE MAP	6.3%	126
REL-CFS-05-036	12 in	SEE MAP	6.3%	126
REL-CFS-05-037	12 in	SEE MAP	6.3%	126
REL-CFS-05-038	12 in	SEE MAP	6.3%	126
REL-CFS-05-039	12 in	SEE MAP	wetland	
REL-CFS-05-040	12 in	SEE MAP	wetland	
REL-CFS-05-041	12 in	SEE MAP	wetland	
REL-CFS-05-042	12 in	SEE MAP	wetland	
REL-CFS-05-043	12 in	SEE MAP	wetland	
REL-CFS-05-044	12 in	SEE MAP	5.3%	113
REL-CFS-05-045	12 in	SEE MAP	5.3%	113
REL-CFS-05-046	12 in	SEE MAP	5.3%	113
REL-CFS-05-047	12 in	SEE MAP	5.3%	113
REL-CFS-05-048	12 in	SEE MAP	5.3%	113
REL-CFS-05-049	12 in	SEE MAP	5.6%	144
REL-CFS-05-050	12 in	SEE MAP	5.6%	144
REL-CFS-05-051	12 in	SEE MAP	5.6%	144
REL-CFS-05-052	12 in	SEE MAP	4.3%	93
REL-CFS-05-053	12 in	SEE MAP	7.3%	165
REL-CFS-05-054	12 in	SEE MAP	7.3%	165
REL-CFS-05-055	12 in	SEE MAP	7.3%	165
REL-CFS-05-056	12 in	SEE MAP	7.3%	165
REL-CFS-05-057	12 in	SEE MAP	7.8%	154
REL-CFS-05-058	12 in	SEE MAP	7.8%	154
REL-CFS-05-059	12 in	SEE MAP	5.5%	145
REL-CFS-05-060	12 in	SEE MAP	5.5%	145
REL-CFS-05-061	12 in	SEE MAP	5.5%	145
REL-CFS-05-062	12 in	SEE MAP	5.5%	145
REL-CFS-05-063	12 in	SEE MAP	5.5%	145
REL-CFS-05-064	12 in	SEE MAP	5.5%	145
REL-CFS-05-065	12 in	SEE MAP	5.5%	145
REL-CFS-05-066	12 in	SEE MAP	wetland	
REL-CFS-05-067	12 in	SEE MAP	wetland	
REL-CFS-05-068	12 in	SEE MAP	wetland	
REL-CFS-05-069	12 in	SEE MAP	wetland	
REL-CFS-05-070	12 in	SEE MAP	wetland	
REL-CFS-05-071	12 in	SEE MAP	wetland	
REL-CFS-05-072	12 in	SEE MAP	wetland	
REL-CFS-05-073	12 in	SEE MAP	2.3%	86

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-05-074	18 in	SEE MAP	14.3%	133
REL-CFS-05-075	18 in	SEE MAP	14.3%	133
REL-CFS-05-076	18 in	SEE MAP	14.3%	133
REL-CFS-05-077	18 in	SEE MAP	14.3%	133
REL-CFS-05-078	18 in	SEE MAP	14.3%	133
REL-CFS-05-079	18 in	SEE MAP	14.3%	133
REL-CFS-05-080	12 in	SEE MAP	wetland	
REL-CFS-05-081	12 in	SEE MAP	wetland	
REL-CFS-05-082	12 in	SEE MAP	wetland	
REL-CFS-05-083	12 in	SEE MAP	wetland	
REL-CFS-05-084	12 in	SEE MAP	wetland	
REL-CFS-05-085	12 in	SEE MAP	wetland	
REL-CFS-05-086	12 in	SEE MAP	wetland	
REL-CFS-05-087	12 in	SEE MAP	wetland	
REL-CFS-05-088	12 in	SEE MAP	wetland	
REL-CFS-05-089	12 in	SEE MAP	wetland	
REL-CFS-05-090	12 in	SEE MAP	wetland	
REL-CFS-05-091	12 in	SEE MAP	wetland	
REL-CFS-05-092	12 in	SEE MAP	wetland	
REL-CFS-05-093	12 in	SEE MAP	wetland	
REL-CFS-05-094	12 in	SEE MAP	wetland	
REL-CFS-05-095	12 in	SEE MAP	wetland	
REL-CFS-05-096	12 in	SEE MAP	wetland	
REL-CFS-05-097	12 in	SEE MAP	wetland	
REL-CFS-05-098	12 in	SEE MAP	wetland	
REL-CFS-05-099	12 in	SEE MAP	wetland	
REL-CFS-05-100	12 in	SEE MAP	wetland	
REL-CFS-05-101	12 in	SEE MAP	wetland	
REL-CFS-05-102	12 in	SEE MAP	wetland	
REL-CFS-05-103	12 in	SEE MAP	wetland	
REL-CFS-05-104	12 in	SEE MAP	wetland	
REL-CFS-05-105	12 in	SEE MAP	wetland	
REL-CFS-05-106	12 in	SEE MAP	wetland	
REL-CFS-05-107	12 in	SEE MAP	wetland	
REL-CFS-05-108	12 in	SEE MAP	wetland	
REL-CFS-05-109	12 in	SEE MAP	wetland	
REL-CFS-05-110	12 in	SEE MAP	wetland	
REL-CFS-05-111	12 in	SEE MAP	wetland	
REL-CFS-05-112	12 in	SEE MAP	wetland	
REL-CFS-05-113	12 in	SEE MAP	wetland	
REL-CFS-05-114	12 in	SEE MAP	wetland	

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-05-115	12 in	SEE MAP	wetland	
REL-CFS-05-116	12 in	SEE MAP	wetland	
REL-CFS-05-117	12 in	SEE MAP	wetland	
REL-CFS-05-118	12 in	SEE MAP	wetland	
REL-CFS-05-119	12 in	SEE MAP	wetland	
REL-CFS-05-120	12 in	SEE MAP	wetland	
REL-CFS-06-001	12 in	SEE MAP	19.2%	26
REL-CFS-06-002	12 in	SEE MAP	19.2%	26
REL-CFS-06-003	12 in	SEE MAP	12.7%	63
REL-CFS-06-004	12 in	SEE MAP	12.7%	63
REL-CFS-06-005	12 in	SEE MAP	12.7%	63
REL-CFS-06-006	12 in	SEE MAP	6.5%	168
REL-CFS-06-007	12 in	SEE MAP	8.3%	48
REL-CFS-06-008	12 in	SEE MAP	8.0%	50
REL-CFS-06-009	12 in	SEE MAP	8.0%	50
REL-CFS-06-010	12 in	SEE MAP	9.5%	147
REL-CFS-06-011	12 in	SEE MAP	9.5%	147
REL-CFS-06-012	12 in	SEE MAP	9.5%	147
REL-CFS-06-013	12 in	SEE MAP	9.5%	147
REL-CFS-06-014	12 in	SEE MAP	9.5%	147
REL-CFS-06-015	12 in	SEE MAP	9.5%	147
REL-CFS-06-016	18 in	SEE MAP	10.0%	200
REL-CFS-06-017	18 in	SEE MAP	10.0%	200
REL-CFS-06-018	18 in	SEE MAP	10.0%	200
REL-CFS-06-019	18 in	SEE MAP	10.0%	200
REL-CFS-06-020	18 in	SEE MAP	10.0%	200
REL-CFS-06-021	18 in	SEE MAP	10.0%	200
REL-CFS-06-022	18 in	SEE MAP	10.0%	200
REL-CFS-06-023	18 in	SEE MAP	10.0%	200
REL-CFS-06-024	18 in	SEE MAP	10.0%	200
REL-CFS-06-025	18 in	SEE MAP	10.0%	200
REL-CFS-06-026	18 in	SEE MAP	22.8%	79
REL-CFS-06-027	18 in	SEE MAP	22.8%	79
REL-CFS-06-028	18 in	SEE MAP	22.8%	79
REL-CFS-06-029	18 in	SEE MAP	22.8%	79
REL-CFS-06-030	18 in	SEE MAP	22.8%	79
REL-CFS-06-031	18 in	SEE MAP	22.8%	79
REL-CFS-06-032	18 in	SEE MAP	22.8%	79
REL-CFS-06-033	18 in	SEE MAP	22.8%	79
REL-CFS-06-034	18 in	SEE MAP	21.6%	111
REL-CFS-06-035	18 in	SEE MAP	21.6%	111

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-06-036	18 in	SEE MAP	21.6%	111
REL-CFS-06-037	18 in	SEE MAP	21.6%	111
REL-CFS-06-038	18 in	SEE MAP	21.6%	111
REL-CFS-06-039	18 in	SEE MAP	21.6%	111
REL-CFS-06-040	18 in	SEE MAP	21.6%	111
REL-CFS-06-041	18 in	SEE MAP	21.6%	111
REL-CFS-06-042	18 in	SEE MAP	21.6%	111
REL-CFS-06-043	18 in	SEE MAP	21.6%	111
REL-CFS-06-044	18 in	SEE MAP	21.6%	111
REL-CFS-06-045	12 in	SEE MAP	8.5%	117
REL-CFS-06-046	12 in	SEE MAP	8.5%	117
REL-CFS-06-047	12 in	SEE MAP	8.5%	117
REL-CFS-06-048	12 in	SEE MAP	14.3%	14
REL-CFS-06-049	18 in	SEE MAP	12.0%	150
REL-CFS-06-050	18 in	SEE MAP	12.0%	150
REL-CFS-06-051	18 in	SEE MAP	12.0%	150
REL-CFS-06-052	18 in	SEE MAP	12.0%	150
REL-CFS-06-053	18 in	SEE MAP	12.0%	150
REL-CFS-06-054	12 in	SEE MAP	16.9%	59
REL-CFS-06-055	12 in	SEE MAP	16.9%	59
REL-CFS-06-056	12 in	SEE MAP	16.9%	59
REL-CFS-06-057	12 in	SEE MAP	16.9%	59
REL-CFS-06-058	12 in	SEE MAP	11.1%	36
REL-CFS-06-059	12 in	SEE MAP	11.1%	36
REL-CFS-06-060	12 in	SEE MAP	11.1%	36
REL-CFS-06-061	12 in	SEE MAP	11.1%	36
REL-CFS-06-062	12 in	SEE MAP	9.7%	93
REL-CFS-06-063	12 in	SEE MAP	9.7%	93
REL-CFS-06-064	12 in	SEE MAP	9.7%	93
REL-CFS-06-065	12 in	SEE MAP	11.5%	52
REL-CFS-06-066	12 in	SEE MAP	11.5%	52
REL-CFS-06-067	12 in	SEE MAP	14.8%	54
REL-CFS-06-068	12 in	SEE MAP	14.8%	54
REL-CFS-06-069	12 in	SEE MAP	14.8%	54
REL-CFS-06-070	12 in	SEE MAP	10.2%	137
REL-CFS-06-071	12 in	SEE MAP	10.2%	137
REL-CFS-06-072	12 in	SEE MAP	10.2%	137
REL-CFS-06-073	12 in	SEE MAP	10.2%	137
REL-CFS-06-074	12 in	SEE MAP	6.6%	181
REL-CFS-06-075	12 in	SEE MAP	6.6%	181
REL-CFS-06-076	12 in	SEE MAP	6.6%	181

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-06-077	12 in	SEE MAP	6.6%	181
REL-CFS-06-078	12 in	SEE MAP	6.6%	181
REL-CFS-06-079	12 in	SEE MAP	11.4%	88
REL-CFS-06-080	12 in	SEE MAP	11.4%	88
REL-CFS-06-081	12 in	SEE MAP	11.4%	88
REL-CFS-06-082	12 in	SEE MAP	5.3%	113
REL-CFS-06-083	12 in	SEE MAP	5.3%	113
REL-CFS-06-084	12 in	SEE MAP	5.3%	113
REL-CFS-06-085	12 in	SEE MAP	11.6%	95
REL-CFS-06-086	12 in	SEE MAP	11.6%	95
REL-CFS-06-087	12 in	SEE MAP	11.6%	95
REL-CFS-06-088	12 in	SEE MAP	11.6%	95
REL-CFS-06-089	12 in	SEE MAP	11.6%	95
REL-CFS-06-090	18 in	SEE MAP	18.8%	96
REL-CFS-06-091	18 in	SEE MAP	18.8%	96
REL-CFS-06-092	18 in	SEE MAP	18.8%	96
REL-CFS-06-093	18 in	SEE MAP	18.8%	96
REL-CFS-06-094	18 in	SEE MAP	18.8%	96
REL-CFS-06-095	18 in	SEE MAP	18.8%	96
REL-CFS-06-096	18 in	SEE MAP	18.8%	96
REL-CFS-06-097	18 in	SEE MAP	18.8%	96
REL-CFS-06-098	18 in	SEE MAP	13.8%	160
REL-CFS-06-099	18 in	SEE MAP	13.8%	160
REL-CFS-06-100	18 in	SEE MAP	13.8%	160
REL-CFS-06-101	18 in	SEE MAP	13.8%	160
REL-CFS-06-102	18 in	SEE MAP	13.8%	160
REL-CFS-06-103	18 in	SEE MAP	13.8%	160
REL-CFS-06-104	18 in	SEE MAP	13.8%	160
REL-CFS-06-105	18 in	SEE MAP	13.8%	160
REL-CFS-06-106	18 in	SEE MAP	13.8%	160
REL-CFS-06-107	18 in	SEE MAP	13.8%	160
REL-CFS-06-108	18 in	SEE MAP	13.8%	160
REL-CFS-06-109	18 in	SEE MAP	13.8%	160
REL-CFS-06-110	18 in	SEE MAP	13.8%	160
REL-CFS-06-111	18 in	SEE MAP	13.8%	160
REL-CFS-06-112	18 in	SEE MAP	13.8%	160
REL-CFS-06-113	18 in	SEE MAP	13.8%	160
REL-CFS-06-114	18 in	SEE MAP	13.8%	160
REL-CFS-06-115	18 in	SEE MAP	13.8%	160
REL-CFS-06-116	18 in	SEE MAP	13.8%	160
REL-CFS-06-117	12 in	SEE MAP	12.7%	79

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-06-118	12 in	SEE MAP	12.7%	79
REL-CFS-06-119	12 in	SEE MAP	12.7%	79
REL-CFS-06-120	12 in	SEE MAP	12.7%	79
REL-CFS-06-121	12 in	SEE MAP	12.7%	79
REL-CFS-06-122	12 in	SEE MAP	10.1%	79
REL-CFS-06-123	12 in	SEE MAP	10.1%	79
REL-CFS-06-124	12 in	SEE MAP	10.1%	79
REL-CFS-06-125	12 in	SEE MAP	10.1%	79
REL-CFS-06-126	12 in	SEE MAP	10.1%	79
REL-CFS-06-127	12 in	SEE MAP	10.1%	79
REL-CFS-06-128	12 in	SEE MAP	10.1%	79
REL-CFS-06-129	18 in	SEE MAP	14.0%	136
REL-CFS-06-130	18 in	SEE MAP	14.0%	136
REL-CFS-06-131	18 in	SEE MAP	14.0%	136
REL-CFS-06-132	18 in	SEE MAP	14.0%	136
REL-CFS-06-133	18 in	SEE MAP	14.0%	136
REL-CFS-06-134	18 in	SEE MAP	14.0%	136
REL-CFS-06-135	18 in	SEE MAP	14.0%	136
REL-CFS-06-136	18 in	SEE MAP	14.0%	136
REL-CFS-06-137	18 in	SEE MAP	14.0%	136
REL-CFS-06-138	18 in	SEE MAP	14.0%	136
REL-CFS-06-139	18 in	SEE MAP	14.0%	136
REL-CFS-06-140	18 in	SEE MAP	14.0%	136
REL-CFS-06-141	18 in	SEE MAP	14.0%	136
REL-CFS-06-142	18 in	SEE MAP	14.0%	136
REL-CFS-06-143	18 in	SEE MAP	14.0%	136
REL-CFS-06-144	18 in	SEE MAP	14.0%	136
REL-CFS-06-145	12 in	SEE MAP	8.8%	125
REL-CFS-06-146	12 in	SEE MAP	8.8%	125
REL-CFS-06-147	12 in	SEE MAP	8.8%	125
REL-CFS-06-148	12 in	SEE MAP	8.8%	125
REL-CFS-06-149	12 in	SEE MAP	8.8%	125
REL-CFS-06-150	12 in	SEE MAP	7.5%	120
REL-CFS-06-151	12 in	SEE MAP	5.7%	105
REL-CFS-06-152	12 in	SEE MAP	5.7%	105
REL-CFS-06-153	12 in	SEE MAP	7.2%	83
REL-CFS-06-154	12 in	SEE MAP	7.2%	83
REL-CFS-06-155	12 in	SEE MAP	7.2%	83
REL-CFS-06-156	12 in	SEE MAP	4.8%	83
REL-CFS-06-157	12 in	SEE MAP	2.8%	71
REL-CFS-06-158	12 in	SEE MAP	8.7%	115

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-06-159	12 in	SEE MAP	8.7%	115
REL-CFS-06-160	12 in	SEE MAP	8.7%	115
REL-CFS-06-161	12 in	SEE MAP	10.6%	142
REL-CFS-06-162	12 in	SEE MAP	10.6%	142
REL-CFS-06-163	12 in	SEE MAP	10.6%	142
REL-CFS-06-164	12 in	SEE MAP	10.6%	142
REL-CFS-06-165	12 in	SEE MAP	10.6%	142
REL-CFS-06-166	12 in	SEE MAP	10.6%	142
REL-CFS-06-167	12 in	SEE MAP	8.1%	123
REL-CFS-06-168	12 in	SEE MAP	8.1%	123
REL-CFS-06-169	12 in	SEE MAP	8.1%	123
REL-CFS-06-170	12 in	SEE MAP	8.1%	123
REL-CFS-06-171	12 in	SEE MAP	8.1%	123
REL-CFS-06-172	12 in	SEE MAP	8.1%	123
REL-CFS-06-173	12 in	SEE MAP	8.1%	123
REL-CFS-06-174	12 in	SEE MAP	12.6%	95
REL-CFS-06-175	12 in	SEE MAP	12.6%	95
REL-CFS-06-176	12 in	SEE MAP	12.6%	95
REL-CFS-06-177	18 in	SEE MAP	15.0%	120
REL-CFS-06-178	18 in	SEE MAP	15.0%	120
REL-CFS-06-179	18 in	SEE MAP	15.0%	120
REL-CFS-06-180	18 in	SEE MAP	15.0%	120
REL-CFS-06-181	18 in	SEE MAP	15.0%	120
REL-CFS-06-182	18 in	SEE MAP	15.0%	120
REL-CFS-06-183	18 in	SEE MAP	25.5%	94
REL-CFS-06-184	18 in	SEE MAP	25.5%	94
REL-CFS-06-185	18 in	SEE MAP	25.5%	94
REL-CFS-06-186	18 in	SEE MAP	25.5%	94
REL-CFS-06-187	18 in	SEE MAP	25.5%	94
REL-CFS-06-188	18 in	SEE MAP	25.5%	94
REL-CFS-06-189	18 in	SEE MAP	25.5%	94
REL-CFS-06-190	18 in	SEE MAP	25.5%	94
REL-CFS-06-191	18 in	SEE MAP	25.5%	94
REL-CFS-06-192	18 in	SEE MAP	25.5%	94
REL-CFS-06-193	18 in	SEE MAP	25.5%	94
REL-CFS-06-194	12 in	SEE MAP	15.1%	93
REL-CFS-06-195	12 in	SEE MAP	15.1%	93
REL-CFS-06-196	12 in	SEE MAP	15.1%	93
REL-CFS-06-197	12 in	SEE MAP	15.1%	93
REL-CFS-06-198	12 in	SEE MAP	15.1%	93
REL-CFS-06-199	12 in	SEE MAP	11.4%	105

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-06-200	12 in	SEE MAP	11.4%	105
REL-CFS-06-201	12 in	SEE MAP	11.4%	105
REL-CFS-06-202	12 in	SEE MAP	11.4%	105
REL-CFS-06-203	12 in	SEE MAP	11.4%	105
REL-CFS-06-204	12 in	SEE MAP	11.1%	99
REL-CFS-06-205	12 in	SEE MAP	11.1%	99
REL-CFS-06-206	12 in	SEE MAP	3.8%	104
REL-CFS-06-207	12 in	SEE MAP	3.8%	104
REL-CFS-06-208	12 in	SEE MAP	5.7%	122
REL-CFS-06-209	12 in	SEE MAP	5.7%	122
REL-CFS-06-210	12 in	SEE MAP	5.7%	122
REL-CFS-06-211	12 in	SEE MAP	9.8%	41
REL-CFS-06-212	12 in	SEE MAP	9.8%	41
REL-CFS-06-213	12 in	SEE MAP	8.9%	79
REL-CFS-06-214	12 in	SEE MAP	8.9%	79
REL-CFS-06-215	12 in	SEE MAP	8.9%	79
REL-CFS-06-216	12 in	SEE MAP	8.9%	79
REL-CFS-06-217	12 in	SEE MAP	8.9%	79
REL-CFS-07-001	12 in	SEE MAP	15.1%	93
REL-CFS-07-002	12 in	SEE MAP	15.1%	93
REL-CFS-07-003	18 in	SEE MAP	24.4%	86
REL-CFS-07-004	18 in	SEE MAP	24.4%	86
REL-CFS-07-005	18 in	SEE MAP	24.4%	86
REL-CFS-07-006	18 in	SEE MAP	24.4%	86
REL-CFS-07-007	18 in	SEE MAP	24.4%	86
REL-CFS-07-008	18 in	SEE MAP	24.4%	86
REL-CFS-07-009	18 in	SEE MAP	24.4%	86
REL-CFS-07-010	18 in	SEE MAP	24.4%	86
REL-CFS-07-011	18 in	SEE MAP	24.4%	86
REL-CFS-07-012	18 in	SEE MAP	24.4%	86
REL-CFS-07-013	12 in	SEE MAP	11.8%	102
REL-CFS-07-014	12 in	SEE MAP	11.8%	102
REL-CFS-07-015	12 in	SEE MAP	11.8%	102
REL-CFS-07-016	12 in	SEE MAP	11.8%	102
REL-CFS-07-017	12 in	SEE MAP	11.8%	102
REL-CFS-07-018	12 in	SEE MAP	11.8%	102
REL-CFS-07-019	12 in	SEE MAP	5.7%	35
REL-CFS-07-020	18 in	SEE MAP	18.8%	85
REL-CFS-07-021	18 in	SEE MAP	17.5%	97
REL-CFS-07-022	18 in	SEE MAP	17.5%	97
REL-CFS-07-023	18 in	SEE MAP	17.5%	97

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-07-024	18 in	SEE MAP	17.5%	97
REL-CFS-07-025	18 in	SEE MAP	17.5%	97
REL-CFS-07-026	18 in	SEE MAP	17.5%	97
REL-CFS-07-027	18 in	SEE MAP	17.5%	97
REL-CFS-07-028	18 in	SEE MAP	17.5%	97
REL-CFS-07-029	18 in	SEE MAP	18.6%	97
REL-CFS-07-030	18 in	SEE MAP	18.6%	97
REL-CFS-07-031	18 in	SEE MAP	18.6%	97
REL-CFS-07-032	18 in	SEE MAP	18.6%	97
REL-CFS-07-033	18 in	SEE MAP	18.6%	97
REL-CFS-07-034	18 in	SEE MAP	18.6%	97
REL-CFS-07-035	32 in	SEE MAP	24.7%	178
REL-CFS-07-036	32 in	SEE MAP	24.7%	178
REL-CFS-07-037	32 in	SEE MAP	24.7%	178
REL-CFS-07-038	32 in	SEE MAP	24.7%	178
REL-CFS-07-039	32 in	SEE MAP	24.7%	178
REL-CFS-07-040	32 in	SEE MAP	24.7%	178
REL-CFS-07-041	32 in	SEE MAP	24.7%	178
REL-CFS-07-042	12 in	SEE MAP	20.0%	10
REL-CFS-07-043	12 in	SEE MAP	20.0%	10
REL-CFS-07-044	12 in	SEE MAP	8.9%	45
REL-CFS-07-045	12 in	SEE MAP	8.9%	45
REL-CFS-07-046	12 in	SEE MAP	8.9%	45
REL-CFS-07-047	12 in	SEE MAP	8.9%	45
REL-CFS-07-048	12 in	SEE MAP	8.9%	45
REL-CFS-07-049	12 in	SEE MAP	8.9%	45
REL-CFS-07-050	12 in	SEE MAP	8.9%	45
REL-CFS-07-051	12 in	SEE MAP	8.9%	45
REL-CFS-07-052	12 in	SEE MAP	8.9%	45
REL-CFS-07-053	12 in	SEE MAP	8.9%	45
REL-CFS-07-054	18 in	SEE MAP	19.8%	81
REL-CFS-07-055	18 in	SEE MAP	8.0%	125
REL-CFS-07-056	18 in	SEE MAP	8.0%	125
REL-CFS-07-057	18 in	SEE MAP	8.0%	125
REL-CFS-07-058	18 in	SEE MAP	8.0%	125
REL-CFS-07-059	18 in	SEE MAP	8.0%	125
REL-CFS-07-060	18 in	SEE MAP	8.0%	125
REL-CFS-07-061	18 in	SEE MAP	8.0%	125
REL-CFS-07-062	18 in	SEE MAP	8.0%	125
REL-CFS-07-063	24 in	SEE MAP	28.4%	102
REL-CFS-07-064	24 in	SEE MAP	28.4%	102

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-07-065	24 in	SEE MAP	28.4%	102
REL-CFS-07-066	24 in	SEE MAP	28.4%	102
REL-CFS-07-067	24 in	SEE MAP	28.4%	102
REL-CFS-07-068	24 in	SEE MAP	20.6%	141
REL-CFS-07-069	24 in	SEE MAP	20.6%	141
REL-CFS-07-070	24 in	SEE MAP	20.6%	141
REL-CFS-07-071	24 in	SEE MAP	20.6%	141
REL-CFS-07-072	24 in	SEE MAP	20.6%	141
REL-CFS-07-073	24 in	SEE MAP	20.6%	141
REL-CFS-07-074	18 in	SEE MAP	13.8%	123
REL-CFS-07-075	18 in	SEE MAP	13.8%	123
REL-CFS-07-076	18 in	SEE MAP	13.8%	123
REL-CFS-07-077	18 in	SEE MAP	13.8%	123
REL-CFS-07-078	12 in	SEE MAP	13.3%	90
REL-CFS-07-079	12 in	SEE MAP	13.3%	90
REL-CFS-07-080	12 in	SEE MAP	6.7%	105
REL-CFS-07-081	12 in	SEE MAP	6.7%	105
REL-CFS-07-082	12 in	SEE MAP	6.7%	105
REL-CFS-07-083	12 in	SEE MAP	6.7%	105
REL-CFS-07-084	12 in	SEE MAP	7.8%	102
REL-CFS-07-085	12 in	SEE MAP	7.8%	167
REL-CFS-07-086	12 in	SEE MAP	7.8%	167
REL-CFS-07-087	12 in	SEE MAP	9.6%	94
REL-CFS-07-088	12 in	SEE MAP	9.6%	94
REL-CFS-07-089	12 in	SEE MAP	9.6%	94
REL-CFS-07-090	12 in	SEE MAP	9.6%	94
REL-CFS-07-091	12 in	SEE MAP	5.2%	155
REL-CFS-07-092	12 in	SEE MAP	5.2%	155
REL-CFS-07-093	12 in	SEE MAP	5.2%	155
REL-CFS-07-094	12 in	SEE MAP	5.8%	171
REL-CFS-07-095	12 in	SEE MAP	5.8%	171
REL-CFS-07-096	12 in	SEE MAP	5.8%	171
REL-CFS-07-097	12 in	SEE MAP	5.8%	171
REL-CFS-07-098	12 in	SEE MAP	4.5%	88
REL-CFS-07-099	12 in	SEE MAP	7.6%	105
REL-CFS-07-100	12 in	SEE MAP	7.6%	105
REL-CFS-07-101	12 in	SEE MAP	7.6%	105
REL-CFS-07-102	12 in	SEE MAP	7.6%	105
REL-CFS-07-103	12 in	SEE MAP	5.7%	106
REL-CFS-07-104	12 in	SEE MAP	5.7%	106
REL-CFS-07-105	12 in	SEE MAP	5.7%	106

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-07-106	12 in	SEE MAP	6.5%	201
REL-CFS-07-107	12 in	SEE MAP	6.5%	201
REL-CFS-07-108	12 in	SEE MAP	6.5%	201
REL-CFS-07-109	12 in	SEE MAP	6.5%	201
REL-CFS-07-110	12 in	SEE MAP	6.5%	201
REL-CFS-07-111	12 in	SEE MAP	6.5%	201
REL-CFS-07-112	18 in	SEE MAP	12.6%	174
REL-CFS-07-113	18 in	SEE MAP	12.6%	174
REL-CFS-07-114	18 in	SEE MAP	12.6%	174
REL-CFS-07-115	18 in	SEE MAP	12.6%	174
REL-CFS-07-116	18 in	SEE MAP	12.6%	174
REL-CFS-07-117	12 in	SEE MAP	10.0%	110
REL-CFS-07-118	12 in	SEE MAP	10.0%	110
REL-CFS-07-119	12 in	SEE MAP	10.0%	110
REL-CFS-07-120	12 in	SEE MAP	19.2%	52
REL-CFS-07-121	12 in	SEE MAP	19.2%	52
REL-CFS-07-122	12 in	SEE MAP	19.2%	52
REL-CFS-07-123	12 in	SEE MAP	19.2%	52
REL-CFS-07-124	18 in	SEE MAP	16.5%	133
REL-CFS-07-125	18 in	SEE MAP	16.5%	133
REL-CFS-07-126	18 in	SEE MAP	16.5%	133
REL-CFS-07-127	18 in	SEE MAP	16.5%	133
REL-CFS-07-128	18 in	SEE MAP	16.5%	133
REL-CFS-07-129	12 in	SEE MAP	15.9%	44
REL-CFS-07-130	12 in	SEE MAP	15.9%	44
REL-CFS-07-131	12 in	SEE MAP	15.9%	44
REL-CFS-07-132	18 in	SEE MAP	19.8%	101
REL-CFS-07-133	18 in	SEE MAP	19.8%	101
REL-CFS-07-134	24 in	SEE MAP	16.3%	209
REL-CFS-07-135	24 in	SEE MAP	16.3%	209
REL-CFS-07-136	24 in	SEE MAP	16.3%	209
REL-CFS-07-137	24 in	SEE MAP	16.3%	209
REL-CFS-07-138	24 in	SEE MAP	16.3%	209
REL-CFS-07-139	18 in	SEE MAP	30.2%	63
REL-CFS-07-140	18 in	SEE MAP	30.2%	63
REL-CFS-07-141	12 in	SEE MAP	18.5%	54
REL-CFS-07-142	12 in	SEE MAP	18.5%	54
REL-CFS-07-143	12 in	SEE MAP	18.5%	54
REL-CFS-07-144	12 in	SEE MAP	18.5%	54
REL-CFS-07-145	12 in	SEE MAP	18.5%	54
REL-CFS-07-146	12 in	SEE MAP	18.5%	54

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-07-147	12 in	SEE MAP	18.5%	54
REL-CFS-07-148	12 in	SEE MAP	18.8%	16
REL-CFS-07-149	18 in	SEE MAP	29.6%	71
REL-CFS-07-150	18 in	SEE MAP	29.6%	71
REL-CFS-07-151	18 in	SEE MAP	29.6%	71
REL-CFS-07-152	18 in	SEE MAP	29.6%	71
REL-CFS-07-153	18 in	SEE MAP	29.6%	71
REL-CFS-07-154	18 in	SEE MAP	29.6%	71
REL-CFS-07-155	18 in	SEE MAP	29.6%	71
REL-CFS-07-156	12 in	SEE MAP	30.0%	30
REL-CFS-07-157	12 in	SEE MAP	30.0%	30
REL-CFS-07-158	12 in	SEE MAP	30.0%	30
REL-CFS-07-159	12 in	SEE MAP	30.0%	30
REL-CFS-07-160	12 in	SEE MAP	40.0%	10
REL-CFS-07-161	12 in	SEE MAP	40.0%	10
REL-CFS-07-162	12 in	SEE MAP	40.0%	10
REL-CFS-07-163	12 in	SEE MAP	40.0%	10
REL-CFS-07-164	12 in	SEE MAP	29.5%	44
REL-CFS-07-165	12 in	SEE MAP	29.5%	44
REL-CFS-07-166	12 in	SEE MAP	29.5%	44
REL-CFS-07-167	24 in	SEE MAP	24.6%	134
REL-CFS-07-168	24 in	SEE MAP	24.6%	134
REL-CFS-07-169	24 in	SEE MAP	24.6%	134
REL-CFS-07-170	24 in	SEE MAP	24.6%	134
REL-CFS-07-171	24 in	SEE MAP	24.6%	134
REL-CFS-07-172	24 in	SEE MAP	24.6%	134
REL-CFS-07-173	18 in	SEE MAP	26.5%	68
REL-CFS-07-174	18 in	SEE MAP	26.5%	68
REL-CFS-07-175	18 in	SEE MAP	26.5%	68
REL-CFS-07-176	18 in	SEE MAP	26.5%	68
REL-CFS-07-177	18 in	SEE MAP	26.5%	68
REL-CFS-07-178	18 in	SEE MAP	26.5%	68
REL-CFS-07-179	18 in	SEE MAP	26.5%	68
REL-CFS-07-180	18 in	SEE MAP	26.5%	68
REL-CFS-07-181	18 in	SEE MAP	26.5%	68
REL-CFS-07-182	18 in	SEE MAP	26.5%	68
REL-CFS-07-183	18 in	SEE MAP	26.5%	68
REL-CFS-07-184	18 in	SEE MAP	26.5%	68
REL-CFS-07-185	18 in	SEE MAP	26.5%	68
REL-CFS-07-186	12 in	SEE MAP	30.0%	40
REL-CFS-07-187	12 in	SEE MAP	30.0%	40

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-07-188	12 in	SEE MAP	30.0%	40
REL-CFS-07-189	12 in	SEE MAP	30.0%	40
REL-CFS-07-190	12 in	SEE MAP	30.0%	40
REL-CFS-07-191	12 in	SEE MAP	9.6%	52
REL-CFS-07-192	12 in	SEE MAP	9.6%	52
REL-CFS-07-193	12 in	SEE MAP	15.2%	46
REL-CFS-07-194	12 in	SEE MAP	15.2%	46
REL-CFS-07-195	12 in	SEE MAP	15.2%	46
REL-CFS-07-196	12 in	SEE MAP	15.2%	46
REL-CFS-07-197	12 in	SEE MAP	27.8%	36
REL-CFS-07-198	12 in	SEE MAP	27.8%	36
REL-CFS-07-199	12 in	SEE MAP	27.8%	36
REL-CFS-07-200	12 in	SEE MAP	27.8%	36
REL-CFS-07-201	24 in	SEE MAP	19.4%	103
REL-CFS-07-202	24 in	SEE MAP	19.4%	103
REL-CFS-07-203	24 in	SEE MAP	19.4%	103
REL-CFS-07-204	24 in	SEE MAP	19.4%	103
REL-CFS-07-205	24 in	SEE MAP	19.4%	103
REL-CFS-07-206	24 in	SEE MAP	19.4%	103
REL-CFS-07-207	24 in	SEE MAP	19.4%	103
REL-CFS-07-208	24 in	SEE MAP	19.4%	103
REL-CFS-07-209	12 in	SEE MAP	22.4%	58
REL-CFS-07-210	12 in	SEE MAP	22.4%	58
REL-CFS-07-211	12 in	SEE MAP	22.4%	58
REL-CFS-07-212	12 in	SEE MAP	22.4%	58
REL-CFS-07-213	12 in	SEE MAP	22.4%	58
REL-CFS-07-214	12 in	SEE MAP	22.4%	58
REL-CFS-07-215	12 in	SEE MAP	22.4%	58
REL-CFS-07-216	12 in	SEE MAP	4.3%	209
REL-CFS-07-217	12 in	SEE MAP	4.3%	209
REL-CFS-07-218	12 in	SEE MAP	4.3%	209
REL-CFS-07-219	12 in	SEE MAP	5.7%	35
REL-CFS-07-220	12 in	SEE MAP	6.6%	76
REL-CFS-07-221	12 in	SEE MAP	15.4%	13
REL-CFS-07-222	12 in	SEE MAP	15.4%	13
REL-CFS-07-223	12 in	SEE MAP	14.3%	14
REL-CFS-07-224	12 in	SEE MAP	14.3%	14
REL-CFS-07-225	12 in	SEE MAP	2.7%	187
REL-CFS-07-226	12 in	SEE MAP	2.7%	187
REL-CFS-07-227	12 in	SEE MAP	2.7%	187
REL-CFS-07-228	12 in	SEE MAP	2.7%	187

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-07-229	12 in	SEE MAP	2.7%	187
REL-CFS-07-230	12 in	SEE MAP	4.0%	101
REL-CFS-07-231	12 in	SEE MAP	38.7%	31
REL-CFS-07-232	12 in	SEE MAP	38.7%	31
REL-CFS-07-233	12 in	SEE MAP	38.7%	31
REL-CFS-07-234	12 in	SEE MAP	38.7%	31
REL-CFS-07-235	12 in	SEE MAP	38.7%	31
REL-CFS-07-236	12 in	SEE MAP	38.7%	31
REL-CFS-07-237	18 in	SEE MAP	25.0%	56
REL-CFS-07-238	18 in	SEE MAP	25.0%	56
REL-CFS-07-239	18 in	SEE MAP	25.0%	56
REL-CFS-07-240	18 in	SEE MAP	25.0%	56
REL-CFS-07-241	18 in	SEE MAP	25.0%	56
REL-CFS-07-242	18 in	SEE MAP	25.0%	56
REL-CFS-07-243	18 in	SEE MAP	25.0%	56
REL-CFS-07-244	12 in	SEE MAP	13.4%	97
REL-CFS-07-245	12 in	SEE MAP	13.4%	97
REL-CFS-07-246	12 in	SEE MAP	13.4%	97
REL-CFS-07-247	12 in	SEE MAP	13.4%	97
REL-CFS-07-248	32 in	SEE MAP	11.3%	335
REL-CFS-07-249	32 in	SEE MAP	11.3%	335
REL-CFS-07-250	32 in	SEE MAP	11.3%	335
REL-CFS-07-251	18 in	SEE MAP	21.5%	79
REL-CFS-07-252	18 in	SEE MAP	21.5%	79
REL-CFS-07-253	18 in	SEE MAP	24.2%	91
REL-CFS-07-254	18 in	SEE MAP	24.2%	91
REL-CFS-07-255	18 in	SEE MAP	24.2%	91
REL-CFS-07-256	32 in	SEE MAP	26.0%	154
REL-CFS-07-257	32 in	SEE MAP	26.0%	154
REL-CFS-07-258	32 in	SEE MAP	26.0%	154
REL-CFS-07-259	32 in	SEE MAP	26.0%	154
REL-CFS-07-260	32 in	SEE MAP	26.0%	154
REL-CFS-07-261	32 in	SEE MAP	26.0%	154
REL-CFS-07-262	32 in	SEE MAP	26.0%	154
REL-CFS-07-263	32 in	SEE MAP	26.0%	154
REL-CFS-07-264	32 in	SEE MAP	26.0%	154
REL-CFS-07-265	12 in	SEE MAP	wetland	
REL-CFS-07-266	12 in	SEE MAP	9.6%	104
REL-CFS-07-267	12 in	SEE MAP	8.0%	87
REL-CFS-07-268	12 in	SEE MAP	8.0%	87
REL-CFS-07-269	12 in	SEE MAP	8.0%	87

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-07-270	12 in	SEE MAP	8.0%	87
REL-CFS-07-271	12 in	SEE MAP	25.5%	51
REL-CFS-07-272	12 in	SEE MAP	25.5%	51
REL-CFS-07-273	12 in	SEE MAP	25.5%	51
REL-CFS-07-274	12 in	SEE MAP	25.5%	51
REL-CFS-07-275	12 in	SEE MAP	25.5%	51
REL-CFS-07-276	12 in	SEE MAP	25.5%	51
REL-CFS-07-277	12 in	SEE MAP	25.5%	51
REL-CFS-07-278	12 in	SEE MAP	6.2%	161
REL-CFS-07-279	12 in	SEE MAP	6.2%	161
REL-CFS-07-280	12 in	SEE MAP	6.2%	161
REL-CFS-07-281	12 in	SEE MAP	6.2%	161
REL-CFS-07-282	12 in	SEE MAP	6.2%	161
REL-CFS-07-283	18 in	SEE MAP	19.3%	145
REL-CFS-07-284	18 in	SEE MAP	19.3%	145
REL-CFS-07-285	18 in	SEE MAP	19.3%	145
REL-CFS-07-286	18 in	SEE MAP	19.3%	145
REL-CFS-08-001	12 in	SEE MAP	12.1%	58
REL-CFS-08-002	12 in	SEE MAP	12.1%	58
REL-CFS-08-003	12 in	SEE MAP	12.1%	58
REL-CFS-08-004	12 in	SEE MAP	12.1%	58
REL-CFS-08-005	12 in	SEE MAP	10.3%	58
REL-CFS-08-006	12 in	SEE MAP	10.3%	58
REL-CFS-08-007	12 in	SEE MAP	10.3%	58
REL-CFS-08-008	12 in	SEE MAP	10.3%	58
REL-CFS-08-009	12 in	SEE MAP	10.3%	58
REL-CFS-08-010	12 in	SEE MAP	wetland	
REL-CFS-08-011	12 in	SEE MAP	wetland	
REL-CFS-08-012	12 in	SEE MAP	wetland	
REL-CFS-08-013	12 in	SEE MAP	wetland	
REL-CFS-08-014	12 in	SEE MAP	wetland	
REL-CFS-08-015	12 in	SEE MAP	wetland	
REL-CFS-08-016	18 in	SEE MAP	12.1%	141
REL-CFS-08-017	18 in	SEE MAP	12.1%	141
REL-CFS-08-018	18 in	SEE MAP	12.1%	141
REL-CFS-08-019	18 in	SEE MAP	12.1%	141
REL-CFS-08-020	18 in	SEE MAP	12.1%	141
REL-CFS-08-021	18 in	SEE MAP	12.1%	141
REL-CFS-08-022	18 in	SEE MAP	12.1%	141
REL-CFS-08-023	18 in	SEE MAP	12.1%	141
REL-CFS-08-024	18 in	SEE MAP	12.1%	141

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-08-025	18 in	SEE MAP	12.1%	141
REL-CFS-08-026	18 in	SEE MAP	12.1%	141
REL-CFS-08-027	18 in	SEE MAP	11.7%	230
REL-CFS-08-028	18 in	SEE MAP	11.7%	230
REL-CFS-08-029	18 in	SEE MAP	11.7%	230
REL-CFS-08-030	18 in	SEE MAP	11.7%	230
REL-CFS-08-031	18 in	SEE MAP	24.3%	74
REL-CFS-08-032	18 in	SEE MAP	24.3%	74
REL-CFS-08-033	18 in	SEE MAP	24.3%	74
REL-CFS-08-034	18 in	SEE MAP	24.3%	74
REL-CFS-08-035	12 in	SEE MAP	8.4%	119
REL-CFS-08-036	12 in	SEE MAP	8.4%	119
REL-CFS-08-037	12 in	SEE MAP	8.4%	119
REL-CFS-08-038	12 in	SEE MAP	8.4%	119
REL-CFS-08-039	12 in	SEE MAP	8.4%	119
REL-CFS-08-040	18 in	SEE MAP	16.8%	101
REL-CFS-08-041	18 in	SEE MAP	16.8%	101
REL-CFS-08-042	18 in	SEE MAP	16.8%	101
REL-CFS-08-043	18 in	SEE MAP	16.8%	101
REL-CFS-08-044	18 in	SEE MAP	16.8%	101
REL-CFS-08-045	18 in	SEE MAP	16.8%	101
REL-CFS-08-046	18 in	SEE MAP	16.8%	101
REL-CFS-08-047	18 in	SEE MAP	16.8%	101
REL-CFS-08-048	18 in	SEE MAP	16.8%	101
REL-CFS-08-049	18 in	SEE MAP	20.0%	105
REL-CFS-08-050	18 in	SEE MAP	20.0%	105
REL-CFS-08-051	18 in	SEE MAP	20.0%	105
REL-CFS-08-052	18 in	SEE MAP	20.0%	105
REL-CFS-08-053	18 in	SEE MAP	20.0%	105
REL-CFS-08-054	18 in	SEE MAP	20.0%	105
REL-CFS-08-055	18 in	SEE MAP	20.0%	105
REL-CFS-08-056	18 in	SEE MAP	20.0%	105
REL-CFS-08-057	18 in	SEE MAP	20.0%	105
REL-CFS-08-058	18 in	SEE MAP	20.0%	105
REL-CFS-08-059	18 in	SEE MAP	20.0%	105
REL-CFS-08-060	18 in	SEE MAP	25.0%	64
REL-CFS-08-061	18 in	SEE MAP	25.0%	64
REL-CFS-08-062	18 in	SEE MAP	25.0%	64
REL-CFS-08-063	18 in	SEE MAP	25.0%	64
REL-CFS-08-064	18 in	SEE MAP	25.0%	64
REL-CFS-08-065	18 in	SEE MAP	25.0%	64

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-08-066	18 in	SEE MAP	25.0%	64
REL-CFS-08-067	18 in	SEE MAP	25.0%	64
REL-CFS-08-068	18 in	SEE MAP	25.0%	64
REL-CFS-08-069	18 in	SEE MAP	25.4%	59
REL-CFS-08-070	18 in	SEE MAP	25.4%	59
REL-CFS-08-071	18 in	SEE MAP	25.4%	59
REL-CFS-08-072	18 in	SEE MAP	25.4%	59
REL-CFS-08-073	18 in	SEE MAP	25.4%	59
REL-CFS-08-074	18 in	SEE MAP	25.4%	59
REL-CFS-08-075	18 in	SEE MAP	25.4%	59
REL-CFS-08-076	18 in	SEE MAP	25.4%	59
REL-CFS-08-077	24 in	SEE MAP	26.2%	103
REL-CFS-08-078	24 in	SEE MAP	26.2%	103
REL-CFS-08-079	24 in	SEE MAP	26.2%	103
REL-CFS-08-080	24 in	SEE MAP	26.2%	103
REL-CFS-08-081	24 in	SEE MAP	26.2%	103
REL-CFS-08-082	24 in	SEE MAP	26.2%	103
REL-CFS-08-083	24 in	SEE MAP	26.2%	103
REL-CFS-08-084	24 in	SEE MAP	26.2%	103
REL-CFS-08-085	12 in	SEE MAP	23.7%	59
REL-CFS-08-086	12 in	SEE MAP	23.7%	59
REL-CFS-08-087	12 in	SEE MAP	23.7%	59
REL-CFS-08-088	12 in	SEE MAP	23.7%	59
REL-CFS-08-089	12 in	SEE MAP	23.7%	59
REL-CFS-08-090	12 in	SEE MAP	23.7%	59
REL-CFS-08-091	18 in	SEE MAP	24.7%	73
REL-CFS-08-092	18 in	SEE MAP	24.7%	73
REL-CFS-08-093	18 in	SEE MAP	24.7%	73
REL-CFS-08-094	18 in	SEE MAP	24.7%	73
REL-CFS-08-095	18 in	SEE MAP	24.7%	73
REL-CFS-08-096	18 in	SEE MAP	24.7%	73
REL-CFS-08-097	18 in	SEE MAP	24.7%	73
REL-CFS-08-098	18 in	SEE MAP	24.7%	73
REL-CFS-08-099	18 in	SEE MAP	25.0%	56
REL-CFS-08-100	18 in	SEE MAP	25.0%	56
REL-CFS-08-101	18 in	SEE MAP	24.6%	65
REL-CFS-08-102	18 in	SEE MAP	24.6%	65
REL-CFS-08-103	18 in	SEE MAP	24.6%	65
REL-CFS-08-104	18 in	SEE MAP	24.6%	65
REL-CFS-08-105	24 in	SEE MAP	25.5%	149
REL-CFS-08-106	24 in	SEE MAP	25.5%	149

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-08-107	24 in	SEE MAP	25.5%	149
REL-CFS-08-108	24 in	SEE MAP	25.5%	149
REL-CFS-08-109	24 in	SEE MAP	25.5%	149
REL-CFS-08-110	24 in	SEE MAP	25.5%	149
REL-CFS-08-111	24 in	SEE MAP	25.5%	149
REL-CFS-08-112	24 in	SEE MAP	25.5%	149
REL-CFS-08-113	24 in	SEE MAP	25.5%	149
REL-CFS-08-114	24 in	SEE MAP	25.5%	149
REL-CFS-08-115	24 in	SEE MAP	25.5%	149
REL-CFS-08-116	32 in	SEE MAP	53.2%	77
REL-CFS-08-117	32 in	SEE MAP	53.2%	77
REL-CFS-08-118	12 in	SEE MAP	14.6%	48
REL-CFS-08-119	12 in	SEE MAP	19.7%	61
REL-CFS-08-120	12 in	SEE MAP	19.7%	61
REL-CFS-08-121	12 in	SEE MAP	19.7%	61
REL-CFS-08-122	12 in	SEE MAP	19.7%	61
REL-CFS-08-123	12 in	SEE MAP	14.9%	47
REL-CFS-08-124	12 in	SEE MAP	14.9%	47
REL-CFS-08-125	18 in	SEE MAP	8.1%	234
REL-CFS-08-126	18 in	SEE MAP	8.1%	234
REL-CFS-08-127	18 in	SEE MAP	8.1%	234
REL-CFS-08-128	18 in	SEE MAP	8.1%	234
REL-CFS-08-129	18 in	SEE MAP	8.1%	234
REL-CFS-08-130	18 in	SEE MAP	8.1%	234
REL-CFS-08-131	18 in	SEE MAP	8.1%	234
REL-CFS-08-132	12 in	SEE MAP	3.6%	56
REL-CFS-08-133	12 in	SEE MAP	3.6%	56
REL-CFS-08-134	12 in	SEE MAP	3.6%	56
REL-CFS-08-135	12 in	SEE MAP	3.6%	56
REL-CFS-08-136	12 in	SEE MAP	3.6%	56
REL-CFS-08-137	12 in	SEE MAP	3.6%	56
REL-CFS-08-138	12 in	SEE MAP	3.6%	56
REL-CFS-08-139	12 in	SEE MAP	3.6%	56
REL-CFS-08-140	12 in	SEE MAP	16.5%	91
REL-CFS-08-141	12 in	SEE MAP	16.5%	91
REL-CFS-08-142	12 in	SEE MAP	16.5%	91
REL-CFS-08-143	12 in	SEE MAP	16.5%	91
REL-CFS-08-144	12 in	SEE MAP	16.5%	91
REL-CFS-08-145	12 in	SEE MAP	16.5%	91
REL-CFS-08-146	12 in	SEE MAP	16.5%	91
REL-CFS-08-147	12 in	SEE MAP	13.2%	53

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-08-148	18 in	SEE MAP	21.4%	112
REL-CFS-08-149	18 in	SEE MAP	21.4%	112
REL-CFS-08-150	18 in	SEE MAP	21.4%	112
REL-CFS-08-151	18 in	SEE MAP	21.4%	112
REL-CFS-08-152	18 in	SEE MAP	21.4%	112
REL-CFS-08-153	18 in	SEE MAP	21.4%	112
REL-CFS-08-154	18 in	SEE MAP	21.4%	112
REL-CFS-08-155	18 in	SEE MAP	21.4%	112
REL-CFS-08-156	18 in	SEE MAP	21.4%	112
REL-CFS-08-157	12 in	SEE MAP	12.8%	39
REL-CFS-08-158	12 in	SEE MAP	12.8%	39
REL-CFS-08-159	12 in	SEE MAP	12.8%	39
REL-CFS-08-160	12 in	SEE MAP	13.9%	36
REL-CFS-08-161	18 in	SEE MAP	21.4%	98
REL-CFS-08-162	18 in	SEE MAP	21.4%	98
REL-CFS-08-163	18 in	SEE MAP	21.4%	98
REL-CFS-08-164	18 in	SEE MAP	21.4%	98
REL-CFS-08-165	18 in	SEE MAP	21.4%	98
REL-CFS-08-166	18 in	SEE MAP	21.4%	98
REL-CFS-08-167	18 in	SEE MAP	21.4%	98
REL-CFS-08-168	18 in	SEE MAP	21.4%	98
REL-CFS-08-169	12 in	SEE MAP	7.8%	51
REL-CFS-08-170	12 in	SEE MAP	7.8%	51
REL-CFS-08-171	18 in	SEE MAP	17.4%	121
REL-CFS-08-172	18 in	SEE MAP	17.4%	121
REL-CFS-08-173	18 in	SEE MAP	17.4%	121
REL-CFS-08-174	18 in	SEE MAP	17.4%	121
REL-CFS-08-175	18 in	SEE MAP	17.4%	121
REL-CFS-08-176	32 in	SEE MAP	24.5%	184
REL-CFS-08-177	32 in	SEE MAP	24.5%	184
REL-CFS-08-178	32 in	SEE MAP	24.5%	184
REL-CFS-08-179	32 in	SEE MAP	24.5%	184
REL-CFS-08-180	32 in	SEE MAP	24.5%	184
REL-CFS-08-181	32 in	SEE MAP	24.5%	184
REL-CFS-08-182	32 in	SEE MAP	24.5%	184
REL-CFS-08-183	32 in	SEE MAP	24.5%	184
REL-CFS-08-184	32 in	SEE MAP	24.5%	184
REL-CFS-08-185	32 in	SEE MAP	24.5%	184
REL-CFS-08-186	32 in	SEE MAP	24.5%	184
REL-CFS-08-187	32 in	SEE MAP	24.5%	184
REL-CFS-08-188	32 in	SEE MAP	24.5%	184

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-08-189	32 in	SEE MAP	24.5%	184
REL-CFS-08-190	12 in	SEE MAP	11.9%	135
REL-CFS-08-191	12 in	SEE MAP	11.9%	135
REL-CFS-08-192	18 in	SEE MAP	15.1%	159
REL-CFS-08-193	18 in	SEE MAP	15.1%	159
REL-CFS-08-194	18 in	SEE MAP	15.1%	159
REL-CFS-08-195	18 in	SEE MAP	15.1%	159
REL-CFS-08-196	18 in	SEE MAP	15.1%	159
REL-CFS-08-197	18 in	SEE MAP	15.1%	159
REL-CFS-08-198	18 in	SEE MAP	15.1%	159
REL-CFS-08-199	18 in	SEE MAP	15.1%	159
REL-CFS-08-200	18 in	SEE MAP	15.1%	159
REL-CFS-08-201	18 in	SEE MAP	15.1%	159
REL-CFS-08-202	18 in	SEE MAP	15.1%	159
REL-CFS-08-203	18 in	SEE MAP	15.1%	159
REL-CFS-08-204	12 in	SEE MAP	50.0%	14
REL-CFS-08-205	12 in	SEE MAP	50.0%	14
REL-CFS-08-206	12 in	SEE MAP	50.0%	14
REL-CFS-08-207	12 in	SEE MAP	50.0%	14
REL-CFS-08-208	12 in	SEE MAP	50.0%	14
REL-CFS-08-209	12 in	SEE MAP	50.0%	14
REL-CFS-08-210	12 in	SEE MAP	50.0%	14
REL-CFS-08-211	12 in	SEE MAP	50.0%	14
REL-CFS-08-212	12 in	SEE MAP	50.0%	14
REL-CFS-08-213	12 in	SEE MAP	50.0%	14
REL-CFS-08-214	12 in	SEE MAP	50.0%	14
REL-CFS-08-215	12 in	SEE MAP	10.0%	120
REL-CFS-08-216	12 in	SEE MAP	10.0%	120
REL-CFS-08-217	12 in	SEE MAP	10.0%	120
REL-CFS-08-218	12 in	SEE MAP	7.7%	91
REL-CFS-08-219	12 in	SEE MAP	7.7%	91
REL-CFS-08-220	12 in	SEE MAP	7.7%	91
REL-CFS-08-221	24 in	SEE MAP	32.5%	80
REL-CFS-08-222	24 in	SEE MAP	32.5%	80
REL-CFS-08-223	24 in	SEE MAP	32.5%	80
REL-CFS-08-224	24 in	SEE MAP	32.5%	80
REL-CFS-08-225	24 in	SEE MAP	32.5%	80
REL-CFS-08-226	24 in	SEE MAP	32.5%	80

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-08-227	24 in	SEE MAP	32.5%	80
REL-CFS-08-228	24 in	SEE MAP	32.5%	80
REL-CFS-08-229	24 in	SEE MAP	32.5%	80
REL-CFS-08-230	24 in	SEE MAP	32.5%	80
REL-CFS-08-231	24 in	SEE MAP	32.5%	80
REL-CFS-08-232	24 in	SEE MAP	32.5%	80
REL-CFS-08-233	24 in	SEE MAP	32.5%	80
REL-CFS-08-234	24 in	SEE MAP	32.5%	80
REL-CFS-08-235	24 in	SEE MAP	32.5%	80
REL-CFS-08-236	24 in	SEE MAP	32.5%	80
REL-CFS-08-237	24 in	SEE MAP	32.5%	80
REL-CFS-08-238	12 in	SEE MAP	wetland	
REL-CFS-08-239	12 in	SEE MAP	11.8%	136
REL-CFS-08-240	12 in	SEE MAP	11.8%	136
REL-CFS-08-241	12 in	SEE MAP	11.8%	136
REL-CFS-08-242	12 in	SEE MAP	11.8%	136
REL-CFS-08-243	12 in	SEE MAP	11.8%	136
REL-CFS-08-244	12 in	SEE MAP	11.8%	136
REL-CFS-08-245	12 in	SEE MAP	11.8%	136
REL-CFS-08-246	12 in	SEE MAP	15.4%	26
REL-CFS-08-247	12 in	SEE MAP	4.5%	44
REL-CFS-08-248	12 in	SEE MAP	8.6%	35
REL-CFS-009-001	18 in	SEE MAP	14.5%	138
REL-CFS-009-002	18 in	SEE MAP	3.5%	453
REL-CFS-009-003	18 in	SEE MAP	3.5%	453
REL-CFS-009-004	18 in	SEE MAP	3.5%	453
REL-CFS-009-005	18 in	SEE MAP	3.5%	453
REL-CFS-009-006	18 in	SEE MAP	3.5%	453
REL-CFS-009-007	18 in	SEE MAP	3.5%	453
REL-CFS-009-008	18 in	SEE MAP	3.5%	453
REL-CFS-009-009	18 in	SEE MAP	3.5%	453
REL-CFS-009-010	12 in	SEE MAP	12.4%	97
REL-CFS-009-011	12 in	SEE MAP	12.4%	97
REL-CFS-009-012	12 in	SEE MAP	12.4%	97
REL-CFS-009-013	18 in	SEE MAP	9.0%	189
REL-CFS-009-014	18 in	SEE MAP	9.0%	189
REL-CFS-009-015	18 in	SEE MAP	9.0%	189
REL-CFS-009-016	18 in	SEE MAP	9.0%	189
REL-CFS-009-017	18 in	SEE MAP	9.0%	189
REL-CFS-009-018	18 in	SEE MAP	9.0%	189
REL-CFS-009-019	18 in	SEE MAP	9.0%	189

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-009-020	18 in	SEE MAP	9.0%	189
REL-CFS-009-021	19 in	SEE MAP	9.0%	189
REL-CFS-009-022	18 in	SEE MAP	9.0%	189
REL-CFS-009-023	12 in	SEE MAP	11.6%	138
REL-CFS-009-024	12 in	SEE MAP	11.6%	138
REL-CFS-009-025	32 in	SEE MAP	44.1%	68
REL-CFS-009-026	32 in	SEE MAP	44.1%	68
REL-CFS-009-027	32 in	SEE MAP	44.1%	68
REL-CFS-009-028	32 in	SEE MAP	44.1%	68
REL-CFS-009-029	32 in	SEE MAP	44.1%	68
REL-CFS-009-030	32 in	SEE MAP	44.1%	68
REL-CFS-009-031	32 in	SEE MAP	44.1%	68
REL-CFS-009-032	32 in	SEE MAP	44.1%	68
REL-CFS-009-033	32 in	SEE MAP	44.1%	68
REL-CFS-009-034	32 in	SEE MAP	44.1%	68
REL-CFS-009-035	32 in	SEE MAP	44.1%	68
REL-CFS-009-036	32 in	SEE MAP	44.1%	68
REL-CFS-009-037	32 in	SEE MAP	44.1%	68
REL-CFS-009-038	32 in	SEE MAP	44.1%	68
REL-CFS-009-039	32 in	SEE MAP	44.1%	68
REL-CFS-009-040	32 in	SEE MAP	44.1%	68
REL-CFS-009-041	32 in	SEE MAP	44.1%	68
REL-CFS-009-042	32 in	SEE MAP	44.1%	68
REL-CFS-009-043	32 in	SEE MAP	44.1%	68
REL-CFS-009-044	32 in	SEE MAP	44.1%	68
REL-CFS-009-045	32 in	SEE MAP	44.1%	68
REL-CFS-009-046	32 in	SEE MAP	44.1%	68
REL-CFS-009-047	32 in	SEE MAP	44.1%	68
REL-CFS-009-048	32 in	SEE MAP	44.1%	68
REL-CFS-009-049	32 in	SEE MAP	44.1%	68
REL-CFS-009-050	32 in	SEE MAP	44.1%	68
REL-CFS-009-051	32 in	SEE MAP	44.1%	68
REL-CFS-009-052	32 in	SEE MAP	44.1%	68
REL-CFS-009-053	32 in	SEE MAP	44.1%	68
REL-CFS-009-054	32 in	SEE MAP	44.1%	68
REL-CFS-009-055	32 in	SEE MAP	40.3%	67
REL-CFS-009-056	32 in	SEE MAP	40.3%	67
REL-CFS-009-057	32 in	SEE MAP	40.3%	67
REL-CFS-009-058	18 in	SEE MAP	15.9%	151
REL-CFS-009-059	18 in	SEE MAP	15.9%	151
REL-CFS-009-060	18 in	SEE MAP	15.9%	151

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-009-061	18 in	SEE MAP	15.9%	151
REL-CFS-009-062	18 in	SEE MAP	15.9%	151
REL-CFS-009-063	18 in	SEE MAP	15.9%	151
REL-CFS-009-064	18 in	SEE MAP	15.9%	151
REL-CFS-009-065	18 in	SEE MAP	15.9%	151
REL-CFS-009-066	18 in	SEE MAP	15.9%	151
REL-CFS-009-067	18 in	SEE MAP	15.9%	151
REL-CFS-009-068	18 in	SEE MAP	15.9%	151
REL-CFS-009-069	18 in	SEE MAP	15.9%	151
REL-CFS-009-070	18 in	SEE MAP	15.9%	151
REL-CFS-009-071	18 in	SEE MAP	15.9%	151
REL-CFS-009-072	18 in	SEE MAP	15.9%	151
REL-CFS-009-073	18 in	SEE MAP	15.9%	151
REL-CFS-009-074	18 in	SEE MAP	15.9%	151
REL-CFS-009-075	12 in	SEE MAP	14.9%	101
REL-CFS-009-076	12 in	SEE MAP	14.9%	101
REL-CFS-009-077	12 in	SEE MAP	6.9%	87
REL-CFS-009-078	12 in	SEE MAP	6.9%	87
REL-CFS-009-079	12 in	SEE MAP	6.9%	87
REL-CFS-009-080	12 in	SEE MAP	8.5%	189
REL-CFS-009-081	12 in	SEE MAP	8.5%	189
REL-CFS-009-082	12 in	SEE MAP	8.5%	189
REL-CFS-009-083	12 in	SEE MAP	12.1%	66
REL-CFS-009-084	12 in	SEE MAP	12.1%	66
REL-CFS-009-085	12 in	SEE MAP	12.1%	66
REL-CFS-009-085	18 in	SEE MAP	6.8%	292
REL-CFS-009-086	18 in	SEE MAP	6.8%	292
REL-CFS-009-087	18 in	SEE MAP	6.8%	292
REL-CFS-009-088	12 in	SEE MAP	5.7%	176
REL-CFS-009-089	12 in	SEE MAP	5.7%	176
REL-CFS-009-090	12 in	SEE MAP	5.7%	176
REL-CFS-009-091	12 in	SEE MAP	5.7%	176
REL-CFS-009-092	12 in	SEE MAP	4.9%	123
REL-CFS-009-093	12 in	SEE MAP	4.9%	123
REL-CFS-009-094	12 in	SEE MAP	4.9%	123
REL-CFS-009-095	12 in	SEE MAP	4.9%	123
REL-CFS-009-096	12 in	SEE MAP	7.6%	144
REL-CFS-009-097	12 in	SEE MAP	7.6%	144
REL-CFS-009-098	12 in	SEE MAP	7.6%	144
REL-CFS-009-099	12 in	SEE MAP	7.6%	144
REL-CFS-009-100	12 in	SEE MAP	7.6%	144

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-009-101	12 in	SEE MAP	7.6%	144
REL-CFS-009-102	12 in	SEE MAP	2.7%	148
REL-CFS-009-103	12 in	SEE MAP	2.7%	148
REL-CFS-009-104	12 in	SEE MAP	2.7%	148
REL-CFS-009-105	12 in	SEE MAP	6.3%	175
REL-CFS-009-106	12 in	SEE MAP	6.3%	175
REL-CFS-009-107	12 in	SEE MAP	6.3%	175
REL-CFS-009-108	18 in	SEE MAP	16.1%	112
REL-CFS-009-109	18 in	SEE MAP	16.1%	112
REL-CFS-009-110	12 in	SEE MAP	6.0%	134
REL-CFS-009-111	12 in	SEE MAP	6.0%	134
REL-CFS-009-112	12 in	SEE MAP	6.0%	134
REL-CFS-009-113	12 in	SEE MAP	6.0%	134
REL-CFS-009-114	12 in	SEE MAP	6.0%	134
REL-CFS-009-115	12 in	SEE MAP	6.0%	134
REL-CFS-009-116	12 in	SEE MAP	6.0%	134
REL-CFS-009-117	12 in	SEE MAP	3.1%	64
REL-CFS-009-118	12 in	SEE MAP	3.1%	64
REL-CFS-009-119	12 in	SEE MAP	3.1%	64
REL-CFS-009-120	12 in	SEE MAP	15.4%	52
REL-CFS-009-121	12 in	SEE MAP	15.4%	52
REL-CFS-009-122	12 in	SEE MAP	15.4%	52
REL-CFS-009-123	12 in	SEE MAP	15.4%	52
REL-CFS-009-124	12 in	SEE MAP	15.4%	52
REL-CFS-009-125	12 in	SEE MAP	15.4%	52
REL-CFS-009-126	12 in	SEE MAP	15.4%	52
REL-CFS-009-127	12 in	SEE MAP	15.4%	52
REL-CFS-009-128	12 in	SEE MAP	15.4%	52
REL-CFS-009-129	12 in	SEE MAP	8.0%	112
REL-CFS-009-130	12 in	SEE MAP	8.0%	112
REL-CFS-009-131	24 in	SEE MAP	55.6%	36
REL-CFS-009-132	24 in	SEE MAP	55.6%	36
REL-CFS-009-133	24 in	SEE MAP	55.6%	36
REL-CFS-009-134	24 in	SEE MAP	55.6%	36
REL-CFS-009-135	24 in	SEE MAP	55.6%	36
REL-CFS-009-136	24 in	SEE MAP	55.6%	36
REL-CFS-009-137	24 in	SEE MAP	55.6%	36
REL-CFS-009-138	24 in	SEE MAP	55.6%	36
REL-CFS-009-139	24 in	SEE MAP	55.6%	36
REL-CFS-009-140	24 in	SEE MAP	55.6%	36
REL-CFS-009-141	24 in	SEE MAP	55.6%	36
REL-CFS-009-142	24 in	SEE MAP	55.6%	36

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-009-143	24 in	SEE MAP	61.5%	39
REL-CFS-009-144	24 in	SEE MAP	61.5%	39
REL-CFS-009-145	24 in	SEE MAP	61.5%	39
REL-CFS-009-146	24 in	SEE MAP	61.5%	39
REL-CFS-009-147	24 in	SEE MAP	61.5%	39
REL-CFS-009-148	24 in	SEE MAP	61.5%	39
REL-CFS-009-149	24 in	SEE MAP	61.5%	39
REL-CFS-009-150	24 in	SEE MAP	61.5%	39
REL-CFS-009-151	24 in	SEE MAP	61.5%	39
REL-CFS-009-152	24 in	SEE MAP	61.5%	39
REL-CFS-009-153	24 in	SEE MAP	61.5%	39
REL-CFS-009-154	24 in	SEE MAP	61.5%	39
REL-CFS-009-155	24 in	SEE MAP	61.5%	39
REL-CFS-009-156	24 in	SEE MAP	61.5%	39
REL-CFS-009-157	24 in	SEE MAP	61.5%	39
REL-CFS-009-158	24 in	SEE MAP	61.5%	39
REL-CFS-009-159	24 in	SEE MAP	61.5%	39
REL-CFS-009-160	24 in	SEE MAP	61.5%	39
REL-CFS-009-161	24 in	SEE MAP	61.5%	39
REL-CFS-009-162	24 in	SEE MAP	61.5%	39
REL-CFS-009-163	24 in	SEE MAP	61.5%	39
REL-CFS-009-164	24 in	SEE MAP	61.5%	39
REL-CFS-009-165	24 in	SEE MAP	61.5%	39
REL-CFS-009-166	24 in	SEE MAP	61.5%	39
REL-CFS-009-167	24 in	SEE MAP	61.5%	39
REL-CFS-009-168	24 in	SEE MAP	61.5%	39
REL-CFS-009-169	24 in	SEE MAP	61.5%	39
REL-CFS-009-170	24 in	SEE MAP	61.5%	39
REL-CFS-009-171	24 in	SEE MAP	61.5%	39
REL-CFS-009-172	24 in	SEE MAP	61.5%	39
REL-CFS-009-173	24 in	SEE MAP	61.5%	39
REL-CFS-009-174	24 in	SEE MAP	61.5%	39
REL-CFS-009-175	24 in	SEE MAP	61.5%	39
REL-CFS-009-176	24 in	SEE MAP	61.5%	39
REL-CFS-009-177	24 in	SEE MAP	61.5%	39
REL-CFS-009-178	24 in	SEE MAP	61.5%	39
REL-CFS-009-179	24 in	SEE MAP	61.5%	39
REL-CFS-009-180	24 in	SEE MAP	61.5%	39
REL-CFS-009-181	24 in	SEE MAP	61.5%	39
REL-CFS-009-182	24 in	SEE MAP	61.5%	39
REL-CFS-009-183	24 in	SEE MAP	61.5%	39

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-009-184	24 in	SEE MAP	61.5%	39
REL-CFS-009-185	24 in	SEE MAP	61.5%	39
REL-CFS-009-186	24 in	SEE MAP	61.5%	39
REL-CFS-009-187	24 in	SEE MAP	61.5%	39
REL-CFS-009-188	24 in	SEE MAP	61.5%	39
REL-CFS-009-189	24 in	SEE MAP	61.5%	39
REL-CFS-009-190	24 in	SEE MAP	61.5%	39
REL-CFS-009-191	24 in	SEE MAP	61.5%	39
REL-CFS-009-192	24 in	SEE MAP	61.5%	39
REL-CFS-009-193	24 in	SEE MAP	47.7%	38
REL-CFS-009-194	24 in	SEE MAP	47.7%	38
REL-CFS-009-195	24 in	SEE MAP	47.7%	38
REL-CFS-009-196	12 in	SEE MAP	6.7%	149
REL-CFS-009-197	12 in	SEE MAP	6.7%	149
REL-CFS-009-198	12 in	SEE MAP	6.7%	149
REL-CFS-009-199	12 in	SEE MAP	6.7%	149
REL-CFS-009-200	12 in	SEE MAP	7.4%	163
REL-CFS-009-201	12 in	SEE MAP	7.4%	163
REL-CFS-009-202	12 in	SEE MAP	7.4%	163
REL-CFS-009-203	12 in	SEE MAP	7.4%	163
REL-CFS-009-204	12 in	SEE MAP	7.4%	163
REL-CFS-009-205	12 in	SEE MAP	7.4%	163
REL-CFS-009-206	12 in	SEE MAP	9.0%	134
REL-CFS-009-207	12 in	SEE MAP	9.0%	134
REL-CFS-009-208	12 in	SEE MAP	9.0%	134
REL-CFS-009-209	12 in	SEE MAP	9.0%	134
REL-CFS-009-210	12 in	SEE MAP	9.0%	134
REL-CFS-009-211	12 in	SEE MAP	8.2%	134
REL-CFS-009-212	12 in	SEE MAP	8.2%	134
REL-CFS-009-213	12 in	SEE MAP	8.2%	134
REL-CFS-009-214	12 in	SEE MAP	8.2%	134
REL-CFS-009-215	12 in	SEE MAP	6.8%	207
REL-CFS-009-216	12 in	SEE MAP	6.8%	207
REL-CFS-009-217	12 in	SEE MAP	6.8%	207
REL-CFS-009-218	12 in	SEE MAP	6.8%	207
REL-CFS-009-219	12 in	SEE MAP	6.8%	207
REL-CFS-009-220	12 in	SEE MAP	6.8%	207
REL-CFS-009-221	12 in	SEE MAP	6.8%	207
REL-CFS-009-222	12 in	SEE MAP	6.8%	207
REL-CFS-009-223	12 in	SEE MAP	6.8%	207

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-009-224	12 in	SEE MAP	6.8%	207
REL-CFS-009-225	12 in	SEE MAP	6.8%	207
REL-CFS-009-226	12 in	SEE MAP	6.8%	207
REL-CFS-009-227	12 in	SEE MAP	6.8%	207
REL-CFS-009-228	12 in	SEE MAP	8.0%	50
REL-CFS-009-229	12 in	SEE MAP	8.0%	50
REL-CFS-009-230	12 in	SEE MAP	8.0%	50
REL-CFS-009-231	12 in	SEE MAP	8.0%	50
REL-CFS-009-232	12 in	SEE MAP	6.3%	160
REL-CFS-009-233	12 in	SEE MAP	6.3%	160
REL-CFS-009-234	12 in	SEE MAP	6.3%	160
REL-CFS-009-235	12 in	SEE MAP	6.3%	160
REL-CFS-009-236	12 in	SEE MAP	14.0%	43
REL-CFS-009-237	12 in	SEE MAP	14.0%	43
REL-CFS-009-238	12 in	SEE MAP	14.0%	43
REL-CFS-009-239	18 in	SEE MAP	28.0%	70
REL-CFS-009-240	18 in	SEE MAP	28.0%	43
REL-CFS-009-241	18 in	SEE MAP	28.0%	43
REL-CFS-009-242	18 in	SEE MAP	28.0%	43
REL-CFS-009-243	18 in	SEE MAP	28.0%	43
REL-CFS-010-001	18 in	SEE MAP	8.0%	277
REL-CFS-010-002	18 in	SEE MAP	8.0%	277
REL-CFS-010-003	12 in	SEE MAP	5.7%	70
REL-CFS-010-004	12 in	SEE MAP	6.8%	176
REL-CFS-010-005	12 in	SEE MAP	6.8%	176
REL-CFS-010-006	12 in	SEE MAP	6.8%	176
REL-CFS-010-007	24 in	SEE MAP	5.2%	363
REL-CFS-010-008	24 in	SEE MAP	5.2%	363
REL-CFS-010-009	24 in	SEE MAP	5.2%	363
REL-CFS-010-010	24 in	SEE MAP	5.2%	363
REL-CFS-010-011	24 in	SEE MAP	5.2%	363
REL-CFS-010-012	12 in	SEE MAP	2.1%	290
REL-CFS-010-013	12 in	SEE MAP	2.1%	290
REL-CFS-010-014	12 in	SEE MAP	2.1%	290
REL-CFS-010-015	12 in	SEE MAP	2.1%	290
REL-CFS-010-016	12 in	SEE MAP	2.1%	290
REL-CFS-010-017	12 in	SEE MAP	2.1%	290
REL-CFS-010-018	12 in	SEE MAP	2.1%	290
REL-CFS-010-019	12 in	SEE MAP	2.1%	290

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-010-020	12 in	SEE MAP	2.1%	290
REL-CFS-010-021	12 in	SEE MAP	2.1%	290
REL-CFS-010-022	12 in	SEE MAP	2.1%	290
REL-CFS-010-023	12 in	SEE MAP	2.1%	290
REL-CFS-010-024	12 in	SEE MAP	2.1%	290
REL-CFS-010-025	12 in	SEE MAP	2.1%	290
REL-CFS-010-026	12 in	SEE MAP	2.1%	290
REL-CFS-010-027	12 in	SEE MAP	2.1%	290
REL-CFS-010-028	12 in	SEE MAP	2.1%	290
REL-CFS-010-029	24 in	SEE MAP	5.7%	346
REL-CFS-010-030	24 in	SEE MAP	5.7%	346
REL-CFS-010-031	24 in	SEE MAP	5.7%	346
REL-CFS-010-032	24 in	SEE MAP	5.7%	346
REL-CFS-010-033	12 in	SEE MAP	2.0%	346
REL-CFS-010-034	12 in	SEE MAP	2.0%	346
REL-CFS-010-035	12 in	SEE MAP	2.0%	346
REL-CFS-010-036	12 in	SEE MAP	4.8%	207
REL-CFS-010-037	12 in	SEE MAP	6.6%	30
REL-CFS-010-038	18 in	SEE MAP	21.4%	84
REL-CFS-010-039	18 in	SEE MAP	21.4%	84
REL-CFS-010-040	18 in	SEE MAP	21.4%	84
REL-CFS-010-041	18 in	SEE MAP	21.4%	84
REL-CFS-010-042	18 in	SEE MAP	21.4%	84
REL-CFS-010-043	18 in	SEE MAP	21.4%	84
REL-CFS-010-044	18 in	SEE MAP	21.4%	84
REL-CFS-010-045	18 in	SEE MAP	21.4%	84
REL-CFS-010-046	12 in	SEE MAP	2.0%	45
REL-CFS-010-047	12 in	SEE MAP	2.0%	45
REL-CFS-010-048	12 in	SEE MAP	24.0%	56
REL-CFS-010-049	18 in	SEE MAP	8.5%	236
REL-CFS-010-050	18 in	SEE MAP	8.5%	236
REL-CFS-010-051	18 in	SEE MAP	8.5%	236
REL-CFS-010-052	18 in	SEE MAP	8.5%	236
REL-CFS-010-053	18 in	SEE MAP	8.5%	236
REL-CFS-010-054	18 in	SEE MAP	8.5%	236
REL-CFS-010-055	18 in	SEE MAP	8.5%	236
REL-CFS-010-056	12 in	SEE MAP	6.6%	91
REL-CFS-010-057	12 in	SEE MAP	6.6%	91
REL-CFS-010-058	12 in	SEE MAP	6.6%	91
REL-CFS-010-059	32 in	SEE MAP	27.0%	132
REL-CFS-010-060	32 in	SEE MAP	27.0%	132

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-010-061	12 in	SEE MAP	42.0%	28
REL-CFS-010-062	12 in	SEE MAP	6.6%	128
REL-CFS-010-063	12 in	SEE MAP	6.6%	128
REL-CFS-010-064	12 in	SEE MAP	6.6%	128
REL-CFS-010-065	12 in	SEE MAP	6.6%	128
REL-CFS-010-066	12 in	SEE MAP	6.6%	128
REL-CFS-010-067	12 in	SEE MAP	6.6%	128
REL-CFS-010-068	12 in	SEE MAP	6.6%	128
REL-CFS-010-069	12 in	SEE MAP	6.6%	128
REL-CFS-010-070	12 in	SEE MAP	6.6%	128
REL-CFS-010-071	12 in	SEE MAP	6.6%	128
REL-CFS-010-072	12 in	SEE MAP	6.6%	128
REL-CFS-010-073	12 in	SEE MAP	6.6%	128
REL-CFS-010-074	12 in	SEE MAP	6.6%	128
REL-CFS-010-075	12 in	SEE MAP	6.6%	128
REL-CFS-010-076	12 in	SEE MAP	6.6%	128
REL-CFS-010-077	12 in	SEE MAP	6.6%	128
REL-CFS-010-078	12 in	SEE MAP	6.6%	128
REL-CFS-010-079	12 in	SEE MAP	6.6%	128
REL-CFS-010-080	12 in	SEE MAP	6.6%	128
REL-CFS-010-081	12 in	SEE MAP	6.6%	128
REL-CFS-010-082	24 in	SEE MAP	15.2%	200
REL-CFS-010-083	24 in	SEE MAP	15.2%	200
REL-CFS-010-084	24 in	SEE MAP	15.2%	200
REL-CFS-010-085	24 in	SEE MAP	15.2%	200
REL-CFS-010-086	24 in	SEE MAP	15.2%	200
REL-CFS-010-087	24 in	SEE MAP	15.2%	200
REL-CFS-010-088	24 in	SEE MAP	15.2%	200
REL-CFS-010-089	24 in	SEE MAP	15.2%	200
REL-CFS-010-090	24 in	SEE MAP	15.2%	200
REL-CFS-010-091	24 in	SEE MAP	15.2%	200
REL-CFS-010-092	24 in	SEE MAP	15.2%	200
REL-CFS-010-093	32 in	SEE MAP, CY002	9.4%	400
REL-CFS-010-094	32 in	SEE MAP, CY002	9.4%	400
REL-CFS-010-095	32 in	SEE MAP, CY002	9.4%	400
REL-CFS-010-096	32 in	SEE MAP, CY002	9.4%	400
REL-CFS-010-097	32 in	SEE MAP, CY002	9.4%	400
REL-CFS-010-098	32 in	SEE MAP, CY002	9.4%	400
REL-CFS-010-099	32 in	SEE MAP, CY002	9.4%	400
REL-CFS-010-100	32 in	SEE MAP, CY002	9.4%	400
REL-CFS-010-101	12 in	SEE MAP, CY002	12.0%	101

REL-CFS-010-102	12 in	SEE MAP, CY002	12.0%	101
REL-CFS-010-103	12 in	SEE MAP, CY002	12.0%	101
REL-CFS-010-104	12 in	SEE MAP, CY002	12.0%	101
REL-CFS-010-105	12 in	SEE MAP, CY002	12.0%	101
REL-CFS-010-106	12 in	SEE MAP, CY002	12.0%	101
REL-CFS-010-107	12 in	SEE MAP, CY002	12.0%	101
REL-CFS-010-108	12 in	SEE MAP, CY002	12.0%	101
REL-CFS-010-109	12 in	SEE MAP, CY002	12.0%	101
REL-CFS-010-110	12 in	SEE MAP, CY002	12.0%	101
REL-CFS-010-111	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-112	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-113	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-114	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-115	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-116	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-117	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-118	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-119	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-120	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-121	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-122	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-123	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-124	18 in	SEE MAP, CY002	10.4%	192
REL-CFS-010-125	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-126	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-127	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-128	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-129	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-130	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-131	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-132	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-133	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-134	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-135	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-136	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-137	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-138	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-139	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-140	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-141	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-142	12 in	SEE MAP, CY002	11.5%	104

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-010-143	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-144	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-145	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-146	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-147	12 in	SEE MAP, CY002	11.5%	104
REL-CFS-010-148	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-149	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-150	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-151	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-152	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-153	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-154	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-155	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-156	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-157	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-158	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-159	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-160	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-161	18 in	SEE MAP, CY002	11.8%	219
REL-CFS-010-162	24 in	SEE MAP, CY002	23.0%	163
REL-CFS-010-163	24 in	SEE MAP, CY002	23.0%	163
REL-CFS-010-164	24 in	SEE MAP, CY002	23.0%	163
REL-CFS-010-165	24 in	SEE MAP, CY002	23.0%	163
REL-CFS-010-166	24 in	SEE MAP, CY002	23.0%	163
REL-CFS-010-167	24 in	SEE MAP, CY002	23.0%	163
REL-CFS-010-168	24 in	SEE MAP, CY002	23.0%	163
REL-CFS-010-169	24 in	SEE MAP, CY002	23.0%	163
REL-CFS-010-170	24 in	SEE MAP, CY002	23.0%	163
REL-CFS-010-171	18 in	SEE MAP	12.1%	134
REL-CFS-010-172	18 in	SEE MAP	12.1%	134
REL-CFS-010-173	18 in	SEE MAP	12.1%	134
REL-CFS-010-174	18 in	SEE MAP	12.1%	134
REL-CFS-010-175	18 in	SEE MAP	12.1%	134
REL-CFS-010-176	18 in	SEE MAP	12.1%	134
REL-CFS-010-177	18 in	SEE MAP	12.1%	134
REL-CFS-010-178	18 in	SEE MAP	12.1%	134
REL-CFS-010-179	18 in	SEE MAP	12.1%	134
REL-CFS-010-180	18 in	SEE MAP	12.1%	134
REL-CFS-010-181	18 in	SEE MAP	12.1%	134
REL-CFS-010-182	18 in	SEE MAP	12.1%	134
REL-CFS-010-183	32 in	SEE MAP	20.7%	202

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-010-184	32 in	SEE MAP	20.7%	202
REL-CFS-010-185	32 in	SEE MAP	20.7%	202
REL-CFS-010-186	12 in	SEE MAP	9.2%	65
REL-CFS-010-187	12 in	SEE MAP	9.2%	65
REL-CFS-010-188	12 in	SEE MAP	9.2%	65
REL-CFS-010-189	12 in	SEE MAP	9.2%	65
REL-CFS-010-190	12 in	SEE MAP	9.2%	65
REL-CFS-010-191	12 in	SEE MAP	9.2%	65
REL-CFS-010-192	12 in	SEE MAP	9.2%	65
REL-CFS-010-193	12 in	SEE MAP	9.2%	65
REL-CFS-010-194	12 in	SEE MAP	9.2%	65
REL-CFS-010-195	12 in	SEE MAP	9.2%	65
REL-CFS-010-196	12 in	SEE MAP	9.2%	65
REL-CFS-010-197	12 in	SEE MAP	9.2%	65
REL-CFS-010-198	12 in	SEE MAP	5.8%	104
REL-CFS-010-199	12 in	SEE MAP	5.8%	104
REL-CFS-010-200	12 in	SEE MAP	5.8%	104
REL-CFS-010-201	12 in	SEE MAP	5.8%	104
REL-CFS-010-202	12 in	SEE MAP	5.8%	104
REL-CFS-010-203	12 in	SEE MAP	31.0%	38
REL-CFS-010-204	12 in	SEE MAP	31.0%	38
REL-CFS-010-205	12 in	SEE MAP	31.0%	38
REL-CFS-010-206	12 in	SEE MAP	31.0%	38
REL-CFS-010-207	12 in	SEE MAP	31.0%	38
REL-CFS-010-208	12 in	SEE MAP	31.0%	38
REL-CFS-010-209	12 in	SEE MAP	31.0%	38
REL-CFS-010-210	12 in	SEE MAP	31.0%	38
REL-CFS-010-211	32 in	SEE MAP	15.5%	287
REL-CFS-010-212	32 in	SEE MAP	15.5%	287
REL-CFS-010-213	32 in	SEE MAP	15.5%	287
REL-CFS-010-214	32 in	SEE MAP	15.5%	287
REL-CFS-010-215	32 in	SEE MAP	15.5%	287
REL-CFS-010-216	32 in	SEE MAP	15.5%	287
REL-CFS-010-217	32 in	SEE MAP	15.5%	287
REL-CFS-010-218	32 in	SEE MAP	15.5%	287
REL-CFS-010-219	32 in	SEE MAP	15.5%	287
REL-CFS-010-220	32 in	SEE MAP	15.5%	287
REL-CFS-010-221	32 in	SEE MAP	15.5%	287
REL-CFS-010-222	32 in	SEE MAP	15.5%	287
REL-CFS-010-223	32 in	SEE MAP	15.5%	287
REL-CFS-010-224	32 in	SEE MAP	15.5%	287

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-010-225	32 in	SEE MAP	15.5%	287
REL-CFS-010-226	18 in	SEE MAP	14.4%	111
REL-CFS-010-227	18 in	SEE MAP	14.4%	111
REL-CFS-010-228	18 in	SEE MAP	14.4%	111
REL-CFS-010-229	18 in	SEE MAP	14.4%	111
REL-CFS-010-230	18 in	SEE MAP	14.4%	111
REL-CFS-010-231	18 in	SEE MAP	14.4%	111
REL-CFS-010-232	18 in	SEE MAP	14.4%	111
REL-CFS-010-233	18 in	SEE MAP	14.4%	111
REL-CFS-010-234	18 in	SEE MAP	14.4%	111
REL-CFS-010-235	18 in	SEE MAP	14.4%	111
REL-CFS-010-236	18 in	SEE MAP	14.4%	111
REL-CFS-010-237	18 in	SEE MAP	14.4%	111
REL-CFS-010-238	18 in	SEE MAP	14.4%	111
REL-CFS-010-239	18 in	SEE MAP	14.4%	111
REL-CFS-010-240	32 in	SEE MAP	8.6%	450
REL-CFS-010-241	32 in	SEE MAP	8.6%	450
REL-CFS-010-242	32 in	SEE MAP	8.6%	450
REL-CFS-010-243	32 in	SEE MAP	8.6%	450
REL-CFS-010-244	32 in	SEE MAP	8.6%	450
REL-CFS-010-245	32 in	SEE MAP	8.6%	450
REL-CFS-010-246	32 in	SEE MAP	8.6%	450
REL-CFS-010-247	32 in	SEE MAP	8.6%	450
REL-CFS-010-248	32 in	SEE MAP	8.6%	450
REL-CFS-010-249	32 in	SEE MAP	8.6%	450
REL-CFS-010-250	32 in	SEE MAP	8.6%	450
REL-CFS-010-251	32 in	SEE MAP	8.6%	450
REL-CFS-010-252	32 in	SEE MAP	8.6%	450
REL-CFS-010-253	32 in	SEE MAP	8.6%	450
REL-CFS-010-254	32 in	SEE MAP	8.6%	450
REL-CFS-010-255	32 in	SEE MAP	8.6%	450
REL-CFS-010-256	32 in	SEE MAP	16.6%	325
REL-CFS-010-257	32 in	SEE MAP	16.6%	325
REL-CFS-010-258	32 in	SEE MAP	16.6%	325
REL-CFS-010-259	32 in	SEE MAP	16.6%	325
REL-CFS-010-260	32 in	SEE MAP	16.6%	325
REL-CFS-010-261	32 in	SEE MAP	16.6%	325
REL-CFS-010-262	32 in	SEE MAP	16.6%	325
REL-CFS-010-263	32 in	SEE MAP	16.6%	325
REL-CFS-010-264	32 in	SEE MAP	16.6%	325
REL-CFS-010-265	32 in	SEE MAP	16.6%	325

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-010-266	32 in	SEE MAP	16.6%	325
REL-CFS-010-267	32 in	SEE MAP	16.6%	325
REL-CFS-010-268	32 in	SEE MAP	16.6%	325
REL-CFS-010-269	32 in	SEE MAP	16.6%	325
REL-CFS-010-270	32 in	SEE MAP	16.6%	325
REL-CFS-010-271	32 in	SEE MAP	16.6%	325
REL-CFS-010-272	32 in	SEE MAP	16.6%	325
REL-CFS-010-273	32 in	SEE MAP	16.6%	325
REL-CFS-010-274	32 in	SEE MAP	16.6%	325
REL-CFS-010-275	32 in	SEE MAP	16.6%	325
REL-CFS-010-276	32 in	SEE MAP	16.6%	325
REL-CFS-010-277	24 in	SEE MAP	21.0%	142
REL-CFS-010-278	24 in	SEE MAP	21.0%	142
REL-CFS-011-001	32 in	SEE MAP	20.6%	234
REL-CFS-011-002	32 in	SEE MAP	20.6%	234
REL-CFS-011-003	32 in	SEE MAP	20.6%	234
REL-CFS-011-004	32 in	SEE MAP	20.6%	234
REL-CFS-011-005	32 in	SEE MAP	20.6%	234
REL-CFS-011-006	32 in	SEE MAP	20.6%	234
REL-CFS-011-007	32 in	SEE MAP	31.0%	102
REL-CFS-011-008	32 in	SEE MAP	31.0%	102
REL-CFS-011-009	32 in	SEE MAP	31.0%	102
REL-CFS-011-010	32 in	SEE MAP	31.0%	102
REL-CFS-011-011	32 in	SEE MAP	31.0%	102
REL-CFS-011-012	32 in	SEE MAP	31.0%	102
REL-CFS-011-013	32 in	SEE MAP	31.0%	102
REL-CFS-011-014	32 in	SEE MAP	24.3%	183
REL-CFS-011-015	32 in	SEE MAP	24.3%	183
REL-CFS-011-016	32 in	SEE MAP	24.3%	183
REL-CFS-011-017	32 in	SEE MAP	24.3%	183
REL-CFS-011-018	32 in	SEE MAP	24.3%	183
REL-CFS-011-019	32 in	SEE MAP	24.3%	183
REL-CFS-011-020	32 in	SEE MAP	24.3%	183
REL-CFS-011-021	32 in	SEE MAP	24.3%	183
REL-CFS-011-022	32 in	SEE MAP	24.3%	183
REL-CFS-011-023	32 in	SEE MAP	24.3%	183
REL-CFS-011-024	32 in	SEE MAP	24.3%	183
REL-CFS-011-025	32 in	SEE MAP	24.3%	183
REL-CFS-011-026	32 in	SEE MAP	24.3%	183
REL-CFS-011-027	32 in	SEE MAP	24.3%	183
REL-CFS-011-028	32 in	SEE MAP	24.3%	183

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-011-029	32 in	SEE MAP	24.3%	183
REL-CFS-011-030	32 in	SEE MAP	24.3%	183
REL-CFS-011-031	32 in	SEE MAP	18.6%	234
REL-CFS-011-031	32 in	SEE MAP	18.6%	234
REL-CFS-011-032	32 in	SEE MAP	18.6%	234
REL-CFS-011-033	32 in	SEE MAP	18.6%	234
REL-CFS-011-034	32 in	SEE MAP	18.6%	234
REL-CFS-011-035	32 in	SEE MAP	18.6%	234
REL-CFS-011-036	32 in	SEE MAP	18.6%	234
REL-CFS-011-037	32 in	SEE MAP	18.6%	234
REL-CFS-011-038	32 in	SEE MAP	18.6%	234
REL-CFS-011-039	32 in	SEE MAP	18.6%	234
REL-CFS-011-040	32 in	SEE MAP	18.6%	234
REL-CFS-011-040	32 in	SEE MAP	10.7%	318
REL-CFS-011-041	32 in	SEE MAP	10.7%	318
REL-CFS-011-042	32 in	SEE MAP	10.7%	318
REL-CFS-011-043	32 in	SEE MAP	10.7%	318
REL-CFS-011-044	32 in	SEE MAP	10.7%	318
REL-CFS-011-045	32 in	SEE MAP	10.7%	318
REL-CFS-011-046	32 in	SEE MAP	10.7%	318
REL-CFS-011-047	32 in	SEE MAP	10.7%	318
REL-CFS-011-048	32 in	SEE MAP	10.7%	318
REL-CFS-011-049	32 in	SEE MAP	10.7%	318
REL-CFS-011-050	32 in	SEE MAP	10.7%	318
REL-CFS-011-051	32 in	SEE MAP	10.7%	318
REL-CFS-011-052	32 in	SEE MAP	10.7%	318
REL-CFS-011-053	32 in	SEE MAP	10.7%	318
REL-CFS-011-054	32 in	SEE MAP	10.7%	318
REL-CFS-011-055	32 in	SEE MAP	10.7%	318
REL-CFS-011-056	32 in	SEE MAP	10.7%	318
REL-CFS-011-057	32 in	SEE MAP	10.7%	318
REL-CFS-011-058	32 in	SEE MAP	10.7%	318
REL-CFS-011-059	32 in	SEE MAP	10.7%	318
REL-CFS-011-060	32 in	SEE MAP	10.7%	318
REL-CFS-011-061	18 in	SEE MAP	16.4%	110
REL-CFS-011-062	24 in	SEE MAP	26.7%	105
REL-CFS-011-062	24 in	SEE MAP	26.7%	105
REL-CFS-011-063	24 in	SEE MAP	26.7%	105
REL-CFS-011-064	24 in	SEE MAP	26.7%	105
REL-CFS-011-065	24 in	SEE MAP	26.7%	105
REL-CFS-011-066	24 in	SEE MAP	26.7%	105

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-011-067	24 in	SEE MAP	26.7%	105
REL-CFS-011-068	24 in	SEE MAP	26.7%	105
REL-CFS-011-069	24 in	SEE MAP	26.7%	105
REL-CFS-011-070	24 in	SEE MAP	26.7%	105
REL-CFS-011-071	24 in	SEE MAP	26.7%	105
REL-CFS-011-072	24 in	SEE MAP	26.7%	105
REL-CFS-011-073	24 in	SEE MAP	26.7%	105
REL-CFS-011-074	24 in	SEE MAP	26.7%	105
REL-CFS-011-075	24 in	SEE MAP	26.7%	105
REL-CFS-011-076	24 in	SEE MAP	26.7%	105
REL-CFS-011-077	24 in	SEE MAP	26.7%	105
REL-CFS-011-078	24 in	SEE MAP	26.7%	105
REL-CFS-011-079	24 in	SEE MAP	26.7%	105
REL-CFS-011-080	24 in	SEE MAP	26.7%	105
REL-CFS-011-081	24 in	SEE MAP	26.7%	105
REL-CFS-011-082	24 in	SEE MAP	26.7%	105
REL-CFS-011-083	24 in	SEE MAP	26.7%	105
REL-CFS-011-084	24 in	SEE MAP	26.7%	105
REL-CFS-011-085	24 in	SEE MAP	26.7%	105
REL-CFS-011-086	24 in	SEE MAP	26.7%	105
REL-CFS-011-087	24 in	SEE MAP	26.7%	105
REL-CFS-011-088	24 in	SEE MAP	26.7%	105
REL-CFS-011-089	24 in	SEE MAP	26.7%	105
REL-CFS-011-090	24 in	SEE MAP	26.7%	105
REL-CFS-011-091	24 in	SEE MAP	26.7%	105
REL-CFS-011-092	12 in	SEE MAP	2.3%	365
REL-CFS-011-093	12 in	SEE MAP	2.3%	365
REL-CFS-011-094	12 in	SEE MAP	2.3%	365
REL-CFS-011-095	12 in	SEE MAP	2.3%	365
REL-CFS-011-096	12 in	SEE MAP	2.3%	365
REL-CFS-011-097	12 in	SEE MAP	2.3%	365
REL-CFS-011-098	12 in	SEE MAP	2.3%	365
REL-CFS-011-099	12 in	SEE MAP	2.3%	365
REL-CFS-011-100	12 in	SEE MAP	2.3%	365
REL-CFS-011-101	12 in	SEE MAP	13.3%	90
REL-CFS-011-102	12 in	SEE MAP	13.3%	90
REL-CFS-011-103	12 in	SEE MAP	13.3%	90
REL-CFS-011-104	12 in	SEE MAP	13.3%	90
REL-CFS-011-105	12 in	SEE MAP	13.3%	90
REL-CFS-011-106	12 in	SEE MAP	13.3%	90
REL-CFS-011-107	12 in	SEE MAP	3.8%	160

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-011-108	12 in	SEE MAP	3.8%	160
REL-CFS-011-109	12 in	SEE MAP	3.8%	160
REL-CFS-011-110	12 in	SEE MAP	3.8%	160
REL-CFS-011-111	12 in	SEE MAP	3.8%	160
REL-CFS-011-112	12 in	SEE MAP	3.8%	160
REL-CFS-011-113	12 in	SEE MAP	3.8%	160
REL-CFS-011-114	12 in	SEE MAP	3.8%	160
REL-CFS-011-115	12 in	SEE MAP	3.8%	160
REL-CFS-011-116	12 in	SEE MAP	3.8%	160
REL-CFS-011-117	12 in	SEE MAP	3.8%	160
REL-CFS-011-118	12 in	SEE MAP	3.8%	160
REL-CFS-011-119	12 in	SEE MAP	3.8%	160
REL-CFS-011-120	12 in	SEE MAP	3.8%	160
REL-CFS-011-121	12 in	SEE MAP	3.8%	160
REL-CFS-011-122	12 in	SEE MAP	3.8%	160
REL-CFS-011-123	12 in	SEE MAP	3.8%	160
REL-CFS-011-124	12 in	SEE MAP	13.5%	74
REL-CFS-011-125	12 in	SEE MAP	13.5%	74
REL-CFS-011-126	12 in	SEE MAP	13.5%	74
REL-CFS-011-127	12 in	SEE MAP	13.5%	74
REL-CFS-011-128	12 in	SEE MAP	18.5%	65
REL-CFS-011-129	12 in	SEE MAP	18.5%	65
REL-CFS-011-130	12 in	SEE MAP	7.4%	95
REL-CFS-011-131	12 in	SEE MAP	7.4%	95
REL-CFS-011-132	12 in	SEE MAP	7.4%	95
REL-CFS-011-133	12 in	SEE MAP	7.4%	95
REL-CFS-011-134	12 in	SEE MAP	7.4%	95
REL-CFS-011-135	12 in	SEE MAP	7.4%	95
REL-CFS-011-136	12 in	SEE MAP	7.4%	95
REL-CFS-011-137	12 in	SEE MAP	7.4%	95
REL-CFS-011-138	12 in	SEE MAP	7.4%	95
REL-CFS-011-139	12 in	SEE MAP	7.4%	95
REL-CFS-011-140	12 in	SEE MAP	7.4%	95
REL-CFS-011-141	18 in	SEE MAP	6.1%	164
REL-CFS-011-142	18 in	SEE MAP	6.1%	164
REL-CFS-011-143	18 in	SEE MAP	6.1%	164
REL-CFS-011-144	18 in	SEE MAP	6.1%	164
REL-CFS-011-145	18 in	SEE MAP	6.1%	164
REL-CFS-011-146	18 in	SEE MAP	6.1%	164
REL-CFS-011-147	18 in	SEE MAP	6.1%	164
REL-CFS-011-148	18 in	SEE MAP	6.1%	164

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-011-149	18 in	SEE MAP	6.1%	164
REL-CFS-011-150	12 in	SEE MAP	6.8%	207
REL-CFS-011-151	12 in	SEE MAP	6.8%	207
REL-CFS-011-152	12 in	SEE MAP	6.8%	207
REL-CFS-011-153	12 in	SEE MAP	3.3%	182
REL-CFS-011-154	12 in	SEE MAP	3.3%	182
REL-CFS-011-155	12 in	SEE MAP	3.3%	182
REL-CFS-011-156	12 in	SEE MAP	3.3%	182
REL-CFS-011-157	12 in	SEE MAP	3.2%	346
REL-CFS-011-158	12 in	SEE MAP	3.2%	346
REL-CFS-011-159	12 in	SEE MAP	3.2%	346
REL-CFS-011-160	12 in	SEE MAP	3.2%	346
REL-CFS-011-161	12 in	SEE MAP	3.2%	346
REL-CFS-011-162	12 in	SEE MAP	3.2%	346
REL-CFS-011-163	18 in	SEE MAP	11.5%	156
REL-CFS-011-164	18 in	SEE MAP	11.5%	156
REL-CFS-011-165	18 in	SEE MAP	11.5%	156
REL-CFS-011-166	18 in	SEE MAP	11.5%	156
REL-CFS-011-167	18 in	SEE MAP	11.5%	156
REL-CFS-011-168	18 in	SEE MAP	11.5%	156
REL-CFS-011-169	18 in	SEE MAP	11.5%	156
REL-CFS-011-170	18 in	SEE MAP	11.5%	156
REL-CFS-011-171	18 in	SEE MAP	11.5%	156
REL-CFS-011-172	18 in	SEE MAP	11.5%	156
REL-CFS-011-173	18 in	SEE MAP	11.5%	156
REL-CFS-011-174	18 in	SEE MAP	11.5%	156
REL-CFS-011-175	18 in	SEE MAP	11.5%	156
REL-CFS-011-176	18 in	SEE MAP	11.5%	156
REL-CFS-011-177	18 in	SEE MAP	11.5%	156
REL-CFS-011-178	18 in	SEE MAP	11.5%	156
REL-CFS-011-179	18 in	SEE MAP	11.5%	156
REL-CFS-011-180	18 in	SEE MAP	11.5%	156
REL-CFS-011-181	18 in	SEE MAP	11.5%	156
REL-CFS-011-182	18 in	SEE MAP	11.5%	156
REL-CFS-011-183	18 in	SEE MAP	11.5%	156
REL-CFS-011-184	18 in	SEE MAP	11.5%	156
REL-CFS-011-185	18 in	SEE MAP	11.5%	156
REL-CFS-011-186	12 in	SEE MAP	7.4%	163
REL-CFS-011-187	12 in	SEE MAP	7.4%	163
REL-CFS-011-188	12 in	SEE MAP	7.4%	163
REL-CFS-011-189	12 in	SEE MAP	7.4%	163

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-011-190	12 in	SEE MAP	7.4%	163
REL-CFS-011-191	12 in	SEE MAP	12.0%	84
REL-CFS-011-192	12 in	SEE MAP	12.0%	84
REL-CFS-011-193	12 in	SEE MAP	12.0%	84
REL-CFS-011-194	12 in	SEE MAP	12.0%	84
REL-CFS-011-195	12 in	SEE MAP	9.5%	126
REL-CFS-011-196	12 in	SEE MAP	9.5%	126
REL-CFS-011-197	12 in	SEE MAP	9.5%	126
REL-CFS-011-198	12 in	SEE MAP	9.5%	126
REL-CFS-011-199	12 in	SEE MAP	9.5%	126
REL-CFS-011-200	12 in	SEE MAP	9.0%	111
REL-CFS-011-201	12 in	SEE MAP	9.0%	111
REL-CFS-011-202	12 in	SEE MAP	9.0%	111
REL-CFS-011-203	12 in	SEE MAP	9.0%	111
REL-CFS-011-204	12 in	SEE MAP	9.0%	111
REL-CFS-011-205	18 in	SEE MAP	8.5%	189
REL-CFS-011-206	18 in	SEE MAP	8.5%	189
REL-CFS-011-207	18 in	SEE MAP	8.5%	189
REL-CFS-011-208	12 in	SEE MAP	4.3%	94
REL-CFS-011-209	12 in	SEE MAP	4.3%	94
REL-CFS-011-210	12 in	SEE MAP	4.3%	94
REL-CFS-011-211	12 in	SEE MAP	4.3%	94
REL-CFS-011-212	12 in	SEE MAP	10.9%	129
REL-CFS-011-213	12 in	SEE MAP	10.9%	129
REL-CFS-011-214	12 in	SEE MAP	10.9%	129
REL-CFS-011-215	12 in	SEE MAP	10.9%	129
REL-CFS-011-216	12 in	SEE MAP	10.9%	129
REL-CFS-011-217	12 in	SEE MAP	10.9%	129
REL-CFS-012-001	18 in	SEE MAP	8.1%	214
REL-CFS-012-002	18 in	SEE MAP	8.1%	214
REL-CFS-012-003	18 in	SEE MAP	8.1%	214
REL-CFS-012-004	18 in	SEE MAP	8.1%	214
REL-CFS-012-005	18 in	SEE MAP	8.1%	214
REL-CFS-012-006	18 in	SEE MAP	8.1%	214
REL-CFS-012-007	18 in	SEE MAP	8.1%	214
REL-CFS-012-008	12 in	SEE MAP	5.5%	144
REL-CFS-012-009	12 in	SEE MAP	5.5%	144
REL-CFS-012-010	12 in	SEE MAP	5.5%	144
REL-CFS-012-011	12 in	SEE MAP	6.5%	215
REL-CFS-012-012	12 in	SEE MAP	6.5%	215
REL-CFS-012-013	12 in	SEE MAP	6.5%	215

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-012-014	12 in	SEE MAP	6.5%	215
REL-CFS-012-015	12 in	SEE MAP	6.5%	215
REL-CFS-012-016	12 in	SEE MAP	6.5%	215
REL-CFS-012-017	12 in	SEE MAP	6.5%	215
REL-CFS-012-018	18 in	SEE MAP	9.7%	185
REL-CFS-012-019	18 in	SEE MAP	9.7%	185
REL-CFS-012-020	18 in	SEE MAP	9.7%	185
REL-CFS-012-021	18 in	SEE MAP	9.7%	185
REL-CFS-012-022	18 in	SEE MAP	9.7%	185
REL-CFS-012-023	18 in	SEE MAP	9.7%	185
REL-CFS-012-024	18 in	SEE MAP	9.7%	185
REL-CFS-012-025	18 in	SEE MAP	9.7%	185
REL-CFS-012-026	18 in	SEE MAP	9.7%	185
REL-CFS-012-027	18 in	SEE MAP	9.7%	185
REL-CFS-012-028	18 in	SEE MAP	10.3%	232
REL-CFS-012-029	18 in	SEE MAP	17.3%	173
REL-CFS-012-030	18 in	SEE MAP	17.3%	173
REL-CFS-012-031	18 in	SEE MAP	17.3%	173
REL-CFS-012-032	18 in	SEE MAP	17.3%	173
REL-CFS-012-033	32 in	SEE MAP	15.7%	332
REL-CFS-012-034	32 in	SEE MAP	15.7%	332
REL-CFS-012-035	32 in	SEE MAP	15.7%	332
REL-CFS-012-036	32 in	SEE MAP	15.7%	332
REL-CFS-012-037	32 in	SEE MAP	15.7%	332
REL-CFS-012-038	32 in	SEE MAP	15.7%	332
REL-CFS-012-039	32 in	SEE MAP	15.7%	332
REL-CFS-012-040	32 in	SEE MAP	15.7%	332
REL-CFS-012-041	32 in	SEE MAP	15.7%	332
REL-CFS-012-042	32 in	SEE MAP	15.7%	332
REL-CFS-012-043	32 in	SEE MAP	15.7%	332
REL-CFS-012-044	32 in	SEE MAP	15.7%	332
REL-CFS-012-045	32 in	SEE MAP	15.7%	332
REL-CFS-012-046	32 in	SEE MAP	15.7%	332
REL-CFS-012-047	32 in	SEE MAP	15.7%	332
REL-CFS-012-048	32 in	SEE MAP	15.7%	332
REL-CFS-012-049	32 in	SEE MAP	15.7%	332
REL-CFS-012-050	32 in	SEE MAP	15.7%	332
REL-CFS-012-051	32 in	SEE MAP	15.7%	332
REL-CFS-012-052	32 in	SEE MAP	15.7%	332
REL-CFS-012-053	32 in	SEE MAP	15.7%	332
REL-CFS-012-054	32 in	SEE MAP	15.7%	332

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-012-055	32 in	SEE MAP	15.7%	332
REL-CFS-012-056	32 in	SEE MAP	15.7%	332
REL-CFS-012-057	32 in	SEE MAP	15.7%	332
REL-CFS-012-058	32 in	SEE MAP	15.7%	332
REL-CFS-012-059	32 in	SEE MAP	15.7%	332
REL-CFS-012-060	32 in	SEE MAP	15.7%	332
REL-CFS-012-061	32 in	SEE MAP	15.7%	332
REL-CFS-012-062	12 in	SEE MAP	20.0%	10
REL-CFS-012-063	12 in	SEE MAP	14.4%	83
REL-CFS-012-064	32 in	SEE MAP	14.7%	286
REL-CFS-012-065	32 in	SEE MAP	14.7%	286
REL-CFS-012-066	32 in	SEE MAP	14.7%	286
REL-CFS-012-067	12 in	SEE MAP	2.0%	388
REL-CFS-012-068	12 in	SEE MAP	2.0%	388
REL-CFS-012-069	12 in	SEE MAP	2.4%	329
REL-CFS-012-070	12 in	SEE MAP	2.4%	329
REL-CFS-012-071	12 in	SEE MAP	2.4%	329
REL-CFS-012-072	12 in	SEE MAP	9.2%	120
REL-CFS-012-073	12 in	SEE MAP	9.2%	120
REL-CFS-012-074	12 in	SEE MAP	9.2%	120
REL-CFS-012-075	12 in	SEE MAP	5.7%	87
REL-CFS-012-076	12 in	SEE MAP	5.7%	87
REL-CFS-012-077	12 in	SEE MAP	10.5%	19
REL-CFS-012-078	12 in	SEE MAP	10.5%	19
REL-CFS-012-079	12 in	SEE MAP	4.2%	142
REL-CFS-012-080	12 in	SEE MAP	4.2%	142
REL-CFS-012-081	12 in	SEE MAP	4.2%	142
REL-CFS-012-082	12 in	SEE MAP	4.2%	142
REL-CFS-012-083	12 in	SEE MAP	4.2%	142
REL-CFS-012-084	12 in	SEE MAP	4.2%	142
REL-CFS-012-085	12 in	SEE MAP	4.2%	142
REL-CFS-012-086	12 in	SEE MAP	4.2%	142
REL-CFS-012-087	12 in	SEE MAP	4.2%	142
REL-CFS-012-088	12 in	SEE MAP	4.2%	142
REL-CFS-012-089	12 in	SEE MAP	4.2%	142
REL-CFS-012-090	12 in	SEE MAP	4.2%	142
REL-CFS-012-091	12 in	SEE MAP	4.2%	142
REL-CFS-012-092	12 in	SEE MAP	2.0%	116
REL-CFS-012-093	12 in	SEE MAP	2.0%	116
REL-CFS-012-094	12 in	SEE MAP	14.3%	56
REL-CFS-012-095	12 in	SEE MAP	14.3%	56

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-012-096	12 in	SEE MAP	14.3%	56
REL-CFS-012-097	12 in	SEE MAP	14.3%	56
REL-CFS-012-098	12 in	SEE MAP	14.3%	56
REL-CFS-012-099	32 in	SEE MAP	52.0%	58
REL-CFS-012-100	32 in	SEE MAP	52.0%	58
REL-CFS-012-101	32 in	SEE MAP	52.0%	58
REL-CFS-012-102	32 in	SEE MAP	52.0%	58
REL-CFS-012-103	32 in	SEE MAP	52.0%	58
REL-CFS-012-104	32 in	SEE MAP	52.0%	58
REL-CFS-012-105	32 in	SEE MAP	52.0%	58
REL-CFS-012-106	32 in	SEE MAP	52.0%	58
REL-CFS-012-107	32 in	SEE MAP	52.0%	58
REL-CFS-012-108	32 in	SEE MAP	52.0%	58
REL-CFS-012-109	32 in	SEE MAP	52.0%	58
REL-CFS-012-110	32 in	SEE MAP	52.0%	58
REL-CFS-012-111	32 in	SEE MAP	52.0%	58
REL-CFS-012-112	18 in	SEE MAP	22.0%	91
REL-CFS-012-113	18 in	SEE MAP	22.0%	91
REL-CFS-012-114	18 in	SEE MAP	22.0%	91
REL-CFS-012-115	18 in	SEE MAP	22.0%	91
REL-CFS-012-116	18 in	SEE MAP	22.0%	91
REL-CFS-012-117	18 in	SEE MAP	22.0%	91
REL-CFS-012-118	18 in	SEE MAP	22.0%	91
REL-CFS-012-119	18 in	SEE MAP	22.0%	91
REL-CFS-012-120	18 in	SEE MAP	22.0%	91
REL-CFS-012-121	18 in	SEE MAP	22.0%	91
REL-CFS-012-122	18 in	SEE MAP	22.0%	91
REL-CFS-012-123	18 in	SEE MAP	22.0%	91
REL-CFS-012-124	12 in	SEE MAP	33.0%	42
REL-CFS-012-125	12 in	SEE MAP	33.0%	42
REL-CFS-012-126	12 in	SEE MAP	33.0%	42
REL-CFS-012-127	12 in	SEE MAP	33.0%	42
REL-CFS-012-128	12 in	SEE MAP	33.0%	42
REL-CFS-012-129	12 in	SEE MAP	33.0%	42
REL-CFS-012-130	12 in	SEE MAP	33.0%	42
REL-CFS-012-131	12 in	SEE MAP	33.0%	42
REL-CFS-012-132	12 in	SEE MAP	33.0%	42
REL-CFS-012-133	12 in	SEE MAP	33.0%	42
REL-CFS-012-134	12 in	SEE MAP	33.0%	42
REL-CFS-012-135	12 in	SEE MAP	33.0%	42
REL-CFS-012-136	12 in	SEE MAP	33.0%	42

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-012-137	18 in	SEE MAP	25.0%	72
REL-CFS-012-138	18 in	SEE MAP	25.0%	72
REL-CFS-012-139	18 in	SEE MAP	25.0%	72
REL-CFS-012-140	18 in	SEE MAP	25.0%	72
REL-CFS-012-141	18 in	SEE MAP	25.0%	72
REL-CFS-012-142	18 in	SEE MAP	25.0%	72
REL-CFS-012-143	12 in	SEE MAP	2.0%	96
REL-CFS-012-144	12 in	SEE MAP	2.0%	96
REL-CFS-012-145	12 in	SEE MAP	2.0%	96
REL-CFS-012-146	12 in	SEE MAP	2.0%	96
REL-CFS-012-147	12 in	SEE MAP	2.0%	96
REL-CFS-012-148	12 in	SEE MAP	2.0%	96
REL-CFS-012-149	12 in	SEE MAP	2.0%	96
REL-CFS-012-150	12 in	SEE MAP	2.0%	96
REL-CFS-012-151	12 in	SEE MAP	2.0%	96
REL-CFS-012-152	12 in	SEE MAP	2.0%	96
REL-CFS-012-153	12 in	SEE MAP	2.0%	96
REL-CFS-012-154	12 in	SEE MAP	2.0%	96
REL-CFS-012-155	12 in	SEE MAP	2.0%	96
REL-CFS-012-156	12 in	SEE MAP	2.0%	96
REL-CFS-012-157	12 in	SEE MAP	2.0%	96
REL-CFS-012-158	12 in	SEE MAP	2.0%	96
REL-CFS-012-159	12 in	SEE MAP	2.0%	96
REL-CFS-012-160	12 in	SEE MAP	2.0%	96
REL-CFS-012-161	12 in	SEE MAP	2.0%	96
REL-CFS-012-162	12 in	SEE MAP	2.0%	96
REL-CFS-012-163	12 in	SEE MAP	2.0%	96
REL-CFS-012-164	12 in	SEE MAP	2.0%	96
REL-CFS-012-165	12 in	SEE MAP	2.0%	96
REL-CFS-012-166	12 in	SEE MAP	2.0%	96
REL-CFS-012-167	12 in	SEE MAP	2.0%	96
REL-CFS-012-168	12 in	SEE MAP	2.0%	96
REL-CFS-012-169	12 in	SEE MAP	14.0%	93
REL-CFS-012-170	12 in	SEE MAP	14.0%	93
REL-CFS-012-171	12 in	SEE MAP	14.0%	93
REL-CFS-012-172	12 in	SEE MAP	14.0%	93
REL-CFS-012-173	12 in	SEE MAP	14.0%	93
REL-CFS-012-174	12 in	SEE MAP	14.0%	93
REL-CFS-012-175	12 in	SEE MAP	14.0%	93
REL-CFS-012-176	12 in	SEE MAP	14.0%	93
REL-CFS-012-177	12 in	SEE MAP	14.0%	93

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-012-178	12 in	SEE MAP	14.0%	93
REL-CFS-012-179	12 in	SEE MAP	14.0%	93
REL-CFS-012-180	12 in	SEE MAP	9.5%	84
REL-CFS-012-181	12 in	SEE MAP	9.5%	84
REL-CFS-012-182	12 in	SEE MAP	9.5%	84
REL-CFS-012-183	12 in	SEE MAP	9.5%	84
REL-CFS-012-184	12 in	SEE MAP	9.5%	84
REL-CFS-012-185	12 in	SEE MAP	9.5%	84
REL-CFS-012-186	12 in	SEE MAP	9.5%	84
REL-CFS-012-187	12 in	SEE MAP	9.5%	84
REL-CFS-012-188	12 in	SEE MAP	9.5%	84
REL-CFS-012-189	12 in	SEE MAP	9.5%	84
REL-CFS-012-190	12 in	SEE MAP	9.5%	84
REL-CFS-012-191	12 in	SEE MAP	9.5%	84
REL-CFS-012-192	12 in	SEE MAP	9.5%	84
REL-CFS-012-193	12 in	SEE MAP	9.5%	84
REL-CFS-012-194	12 in	SEE MAP	9.3%	151
REL-CFS-012-195	12 in	SEE MAP	9.3%	151
REL-CFS-012-196	12 in	SEE MAP	9.3%	151
REL-CFS-012-197	12 in	SEE MAP	9.3%	151
REL-CFS-012-198	12 in	SEE MAP	9.3%	151
REL-CFS-012-199	12 in	SEE MAP	9.3%	151
REL-CFS-012-200	12 in	SEE MAP	33.0%	12
REL-CFS-012-201	12 in	SEE MAP	33.0%	12
REL-CFS-012-202	12 in	SEE MAP	33.0%	12
REL-CFS-012-203	12 in	SEE MAP	33.0%	12
REL-CFS-012-204	12 in	SEE MAP	33.0%	12
REL-CFS-012-205	12 in	SEE MAP	33.0%	12
REL-CFS-012-206	12 in	SEE MAP	33.0%	12
REL-CFS-012-207	12 in	SEE MAP	25.0%	24
REL-CFS-012-208	12 in	SEE MAP	25.0%	24
REL-CFS-012-209	12 in	SEE MAP	25.0%	24
REL-CFS-012-210	12 in	SEE MAP	25.0%	24
REL-CFS-012-211	12 in	SEE MAP	25.0%	24
REL-CFS-012-212	12 in	SEE MAP	9.5%	105
REL-CFS-012-213	12 in	SEE MAP	9.5%	105
REL-CFS-012-214	12 in	SEE MAP	9.5%	105
REL-CFS-012-215	12 in	SEE MAP	2.9%	172
REL-CFS-012-216	12 in	SEE MAP	2.9%	172
REL-CFS-013-001	12 in	SEE MAP	13.9%	43
REL-CFS-013-002	12 in	SEE MAP	13.9%	43

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-013-003	12 in	SEE MAP	13.9%	43
REL-CFS-013-004	12 in	SEE MAP	5.3%	94
REL-CFS-013-005	12 in	SEE MAP	5.3%	94
REL-CFS-013-006	12 in	SEE MAP	5.3%	94
REL-CFS-013-007	12 in	SEE MAP	5.3%	94
REL-CFS-013-008	12 in	SEE MAP	5.3%	94
REL-CFS-013-009	12 in	SEE MAP	3.4%	118
REL-CFS-013-010	12 in	SEE MAP	3.4%	118
REL-CFS-013-011	12 in	SEE MAP	3.4%	118
REL-CFS-013-012	12 in	SEE MAP	3.4%	118
REL-CFS-013-013	12 in	SEE MAP	3.4%	118
REL-CFS-013-014	12 in	SEE MAP	5.8%	139
REL-CFS-013-015	12 in	SEE MAP	5.8%	139
REL-CFS-013-016	12 in	SEE MAP	5.8%	139
REL-CFS-013-017	12 in	SEE MAP	5.8%	139
REL-CFS-013-018	12 in	SEE MAP	5.8%	139
REL-CFS-013-019	12 in	SEE MAP	5.8%	139
REL-CFS-013-020	12 in	SEE MAP	5.8%	139
REL-CFS-013-021	12 in	SEE MAP	5.8%	139
REL-CFS-013-022	12 in	SEE MAP	5.8%	139
REL-CFS-013-023	18 in	SEE MAP	5.4%	259
REL-CFS-013-024	18 in	SEE MAP	5.4%	259
REL-CFS-013-025	18 in	SEE MAP	5.4%	259
REL-CFS-013-026	18 in	SEE MAP	5.4%	259
REL-CFS-013-027	18 in	SEE MAP	6.7%	294
REL-CFS-013-028	18 in	SEE MAP	6.7%	294
REL-CFS-013-029	18 in	SEE MAP	6.7%	294
REL-CFS-013-030	18 in	SEE MAP	6.7%	294
REL-CFS-013-031	12 in	SEE MAP	4.2%	46
REL-CFS-013-032	12 in	SEE MAP	4.2%	46
REL-CFS-013-033	12 in	SEE MAP	4.2%	46
REL-CFS-013-034	12 in	SEE MAP	4.2%	46
REL-CFS-013-035	12 in	SEE MAP	4.2%	46
REL-CFS-013-036	12 in	SEE MAP	6.8%	162
REL-CFS-013-037	12 in	SEE MAP	6.8%	162
REL-CFS-013-038	12 in	SEE MAP	6.8%	162
REL-CFS-013-039	12 in	SEE MAP	6.8%	162
REL-CFS-013-040	12 in	SEE MAP	6.8%	162
REL-CFS-013-041	12 in	SEE MAP	13.6%	88
REL-CFS-013-042	12 in	SEE MAP	13.6%	88

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-013-043	12 in	SEE MAP	13.6%	88
REL-CFS-013-044	12 in	SEE MAP	13.6%	88
REL-CFS-013-045	12 in	SEE MAP	13.6%	88
REL-CFS-013-046	12 in	SEE MAP	13.6%	88
REL-CFS-013-047	12 in	SEE MAP	3.5%	286
REL-CFS-013-048	12 in	SEE MAP	3.5%	286
REL-CFS-013-049	12 in	SEE MAP	3.5%	286
REL-CFS-013-050	12 in	SEE MAP	3.5%	286
REL-CFS-013-051	12 in	SEE MAP	3.5%	286
REL-CFS-013-052	12 in	SEE MAP	3.5%	286
REL-CFS-013-053	12 in	SEE MAP	3.5%	286
REL-CFS-013-054	12 in	SEE MAP	3.5%	286
REL-CFS-013-055	12 in	SEE MAP	3.5%	286
REL-CFS-013-056	12 in	SEE MAP	8.5%	117
REL-CFS-013-057	12 in	SEE MAP	8.5%	117
REL-CFS-013-058	12 in	SEE MAP	2.2%	268
REL-CFS-013-059	12 in	SEE MAP	2.2%	268
REL-CFS-013-060	12 in	SEE MAP	2.2%	268
REL-CFS-013-061	12 in	SEE MAP	2.0%	364
REL-CFS-013-062	12 in	SEE MAP	2.0%	364
REL-CFS-013-063	12 in	SEE MAP	2.0%	364
REL-CFS-013-064	12 in	SEE MAP	2.0%	364
REL-CFS-013-065	12 in	SEE MAP	2.0%	365
REL-CFS-013-066	12 in	SEE MAP	2.0%	133
REL-CFS-013-067	12 in	SEE MAP	2.0%	133
REL-CFS-013-068	12 in	SEE MAP	2.0%	133
REL-CFS-013-069	12 in	SEE MAP	2.0%	133
REL-CFS-013-070	12 in	SEE MAP	2.0%	133
REL-CFS-013-071	12 in	SEE MAP	2.0%	133
REL-CFS-013-072	12 in	SEE MAP	2.0%	133
REL-CFS-013-073	12 in	SEE MAP	2.0%	133
REL-CFS-013-074	12 in	SEE MAP	2.0%	133
REL-CFS-013-075	12 in	SEE MAP	2.0%	134
REL-CFS-013-076	18 in	SEE MAP	17.7%	113
REL-CFS-013-077	18 in	SEE MAP	17.7%	113
REL-CFS-013-078	18 in	SEE MAP	17.7%	113
REL-CFS-013-079	18 in	SEE MAP	17.7%	113
REL-CFS-013-080	18 in	SEE MAP	17.7%	113
REL-CFS-013-081	18 in	SEE MAP	17.7%	113
REL-CFS-013-082	18 in	SEE MAP	17.7%	113
REL-CFS-013-083	18 in	SEE MAP	17.7%	113

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-013-084	18 in	SEE MAP	17.7%	113
REL-CFS-013-085	18 in	SEE MAP	17.7%	113
REL-CFS-013-086	18 in	SEE MAP	17.7%	113
REL-CFS-013-087	18 in	SEE MAP	17.7%	113
REL-CFS-013-088	18 in	SEE MAP	17.7%	113
REL-CFS-013-089	18 in	SEE MAP	17.7%	113
REL-CFS-013-090	18 in	SEE MAP	17.7%	113
REL-CFS-013-091	18 in	SEE MAP	17.7%	113
REL-CFS-013-092	18 in	SEE MAP	17.7%	113
REL-CFS-013-093	18 in	SEE MAP	17.7%	113
REL-CFS-013-094	18 in	SEE MAP	17.7%	113
REL-CFS-013-095	18 in	SEE MAP	17.7%	113
REL-CFS-013-096	18 in	SEE MAP	17.7%	113
REL-CFS-013-097	18 in	SEE MAP	17.7%	113
REL-CFS-013-098	12 in	SEE MAP	4.8%	332
REL-CFS-013-099	12 in	SEE MAP	4.8%	332
REL-CFS-013-100	12 in	SEE MAP	4.8%	332
REL-CFS-013-101	12 in	SEE MAP	4.8%	332
REL-CFS-013-102	12 in	SEE MAP	4.8%	332
REL-CFS-013-103	12 in	SEE MAP	4.8%	332
REL-CFS-013-104	12 in	SEE MAP	4.8%	332
REL-CFS-013-105	12 in	SEE MAP	4.8%	332
REL-CFS-013-106	12 in	SEE MAP	4.8%	332
REL-CFS-013-107	12 in	SEE MAP	4.8%	332
REL-CFS-013-108	12 in	SEE MAP	4.8%	332
REL-CFS-013-109	12 in	SEE MAP	4.8%	332
REL-CFS-013-110	12 in	SEE MAP	4.8%	332
REL-CFS-013-111	12 in	SEE MAP	4.8%	332
REL-CFS-013-112	18 in	SEE MAP	10.4%	193
REL-CFS-013-113	18 in	SEE MAP	10.4%	193
REL-CFS-013-114	18 in	SEE MAP	10.4%	193
REL-CFS-013-115	12 in	SEE MAP	9.8%	163
REL-CFS-013-116	12 in	SEE MAP	9.8%	163
REL-CFS-013-117	12 in	SEE MAP	9.8%	163
REL-CFS-013-118	12 in	SEE MAP	9.8%	163
REL-CFS-013-119	12 in	SEE MAP	9.8%	163
REL-CFS-013-120	12 in	SEE MAP	9.8%	163
REL-CFS-013-121	12 in	SEE MAP	9.8%	163
REL-CFS-013-122	12 in	SEE MAP	9.8%	163
REL-CFS-013-123	12 in	SEE MAP	9.8%	163
REL-CFS-013-124	12 in	SEE MAP	9.8%	163

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-013-125	12 in	SEE MAP	9.8%	163
REL-CFS-013-126	12 in	SEE MAP	9.8%	163
REL-CFS-013-127	12 in	SEE MAP	9.8%	163
REL-CFS-013-128	12 in	SEE MAP	9.8%	163
REL-CFS-013-129	12 in	SEE MAP	9.8%	163
REL-CFS-013-130	12 in	SEE MAP	9.8%	163
REL-CFS-013-131	12 in	SEE MAP	9.8%	163
REL-CFS-013-132	12 in	SEE MAP	9.8%	163
REL-CFS-013-133	12 in	SEE MAP	9.8%	163
REL-CFS-013-134	12 in	SEE MAP	9.8%	163
REL-CFS-013-135	12 in	SEE MAP	9.8%	163
REL-CFS-013-136	12 in	SEE MAP	9.8%	163
REL-CFS-013-137	12 in	SEE MAP	9.8%	163
REL-CFS-013-138	12 in	SEE MAP	9.8%	163
REL-CFS-013-139	12 in	SEE MAP	9.8%	163
REL-CFS-013-140	12 in	SEE MAP	9.8%	163
REL-CFS-013-141	12 in	SEE MAP	9.8%	163
REL-CFS-013-142	12 in	SEE MAP	9.8%	163
REL-CFS-013-143	12 in	SEE MAP	9.8%	163
REL-CFS-013-144	12 in	SEE MAP	9.8%	163
REL-CFS-013-145	12 in	SEE MAP	9.8%	163
REL-CFS-013-146	12 in	SEE MAP	9.8%	163
REL-CFS-013-147	12 in	SEE MAP	9.8%	163
REL-CFS-013-148	12 in	SEE MAP	9.8%	163
REL-CFS-013-149	12 in	SEE MAP	9.8%	163
REL-CFS-013-150	12 in	SEE MAP	9.8%	163
REL-CFS-014-001	18 in	SEE MAP	11.7%	206
REL-CFS-014-002	18 in	SEE MAP	11.7%	206
REL-CFS-014-003	18 in	SEE MAP	11.7%	206
REL-CFS-014-004	24 in	SEE MAP	8.6%	370
REL-CFS-014-005	24 in	SEE MAP	8.6%	370
REL-CFS-014-006	24 in	SEE MAP	8.6%	370
REL-CFS-014-007	24 in	SEE MAP	8.6%	370
REL-CFS-014-008	24 in	SEE MAP	8.6%	370
REL-CFS-014-009	24 in	SEE MAP	8.6%	370
REL-CFS-014-010	24 in	SEE MAP	8.6%	370
REL-CFS-014-011	24 in	SEE MAP	8.6%	370
REL-CFS-014-012	24 in	SEE MAP	8.6%	370
REL-CFS-014-013	24 in	SEE MAP	8.6%	370
REL-CFS-014-014	24 in	SEE MAP	8.6%	370
REL-CFS-014-015	24 in	SEE MAP	8.6%	370

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-014-016	24 in	SEE MAP	8.6%	370
REL-CFS-014-017	24 in	SEE MAP	8.6%	370
REL-CFS-014-018	24 in	SEE MAP	8.6%	370
REL-CFS-014-019	24 in	SEE MAP	8.6%	370
REL-CFS-014-020	24 in	SEE MAP	8.6%	370
REL-CFS-014-021	24 in	SEE MAP	8.6%	370
REL-CFS-014-022	24 in	SEE MAP	8.6%	370
REL-CFS-014-023	24 in	SEE MAP	8.6%	370
REL-CFS-014-024	24 in	SEE MAP	8.6%	370
REL-CFS-014-025	24 in	SEE MAP	8.6%	370
REL-CFS-014-026	24 in	SEE MAP	8.6%	370
REL-CFS-014-027	24 in	SEE MAP	8.6%	370
REL-CFS-014-028	24 in	SEE MAP	8.6%	370
REL-CFS-014-029	24 in	SEE MAP	8.6%	370
REL-CFS-014-030	24 in	SEE MAP	8.6%	370
REL-CFS-014-031	24 in	SEE MAP	8.6%	370
REL-CFS-014-032	24 in	SEE MAP	10.0%	280
REL-CFS-014-033	24 in	SEE MAP	10.0%	280
REL-CFS-014-034	24 in	SEE MAP	10.0%	280
REL-CFS-014-035	24 in	SEE MAP	10.0%	280
REL-CFS-014-036	24 in	SEE MAP	10.0%	280
REL-CFS-014-037	24 in	SEE MAP	10.0%	280
REL-CFS-014-038	24 in	SEE MAP	10.0%	280
REL-CFS-014-039	24 in	SEE MAP	10.0%	280
REL-CFS-014-040	24 in	SEE MAP	10.0%	280
REL-CFS-014-041	24 in	SEE MAP	10.0%	280
REL-CFS-014-042	24 in	SEE MAP	10.0%	280
REL-CFS-014-043	24 in	SEE MAP	10.0%	280
REL-CFS-014-044	24 in	SEE MAP	10.0%	280
REL-CFS-014-045	24 in	SEE MAP	10.0%	280
REL-CFS-014-046	24 in	SEE MAP	10.0%	280
REL-CFS-014-047	24 in	SEE MAP	10.0%	280
REL-CFS-014-048	18 in	SEE MAP	3.3%	478
REL-CFS-014-049	18 in	SEE MAP	3.3%	478
REL-CFS-014-050	18 in	SEE MAP	3.3%	478
REL-CFS-014-051	18 in	SEE MAP	3.3%	478
REL-CFS-014-051	12 in	SEE MAP	2.0%	188
REL-CFS-014-052	12 in	SEE MAP	2.0%	188
REL-CFS-014-053	12 in	SEE MAP	2.0%	188
REL-CFS-014-054	12 in	SEE MAP	2.0%	188
REL-CFS-014-055	12 in	SEE MAP	2.0%	188

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-014-056	12 in	SEE MAP	2.0%	188
REL-CFS-014-057	12 in	SEE MAP	2.0%	188
REL-CFS-014-058	12 in	SEE MAP	2.0%	188
REL-CFS-014-059	18 in	SEE MAP	13.8%	174
REL-CFS-014-060	18 in	SEE MAP	13.8%	174
REL-CFS-014-061	12 in	SEE MAP	2.0%	141
REL-CFS-014-062	12 in	SEE MAP	2.0%	141
REL-CFS-014-063	12 in	SEE MAP	2.0%	141
REL-CFS-014-064	12 in	SEE MAP	2.0%	141
REL-CFS-014-065	12 in	SEE MAP	2.0%	141
REL-CFS-014-066	12 in	SEE MAP	2.0%	87
REL-CFS-014-067	12 in	SEE MAP	2.0%	87
REL-CFS-014-068	12 in	SEE MAP	2.0%	87
REL-CFS-014-069	12 in	SEE MAP	2.0%	87
REL-CFS-014-070	12 in	SEE MAP	2.0%	87
REL-CFS-014-071	12 in	SEE MAP	2.0%	87
REL-CFS-014-072	12 in	SEE MAP	2.0%	87
REL-CFS-014-073	12 in	SEE MAP	2.0%	87
REL-CFS-014-074	12 in	SEE MAP	3.2%	374
REL-CFS-015-001	12 in	SEE MAP	2.0%	131
REL-CFS-015-002	12 in	SEE MAP	2.0%	131
REL-CFS-015-003	12 in	SEE MAP	9.0%	166
REL-CFS-015-004	12 in	SEE MAP	9.0%	166
REL-CFS-015-005	12 in	SEE MAP	2.0%	190
REL-CFS-015-006	12 in	SEE MAP	9.5%	147
REL-CFS-015-007	12 in	SEE MAP	9.5%	147
REL-CFS-015-008	12 in	SEE MAP	9.5%	147
REL-CFS-015-009	12 in	SEE MAP	3.8%	366
REL-CFS-015-010	12 in	SEE MAP	2.3%	129
REL-CFS-015-011	12 in	SEE MAP	2.3%	129
REL-CFS-015-012	12 in	SEE MAP	2.3%	129
REL-CFS-015-013	12 in	SEE MAP	2.3%	129
REL-CFS-015-014	12 in	SEE MAP	2.3%	129
REL-CFS-015-015	12 in	SEE MAP	2.3%	129
REL-CFS-015-016	12 in	SEE MAP	2.0%	162
REL-CFS-015-017	12 in	SEE MAP	2.0%	162
REL-CFS-015-018	12 in	SEE MAP	2.0%	162
REL-CFS-015-019	12 in	SEE MAP	2.0%	162
REL-CFS-015-020	12 in	SEE MAP	2.0%	162
REL-CFS-015-021	12 in	SEE MAP	2.0%	162
REL-CFS-015-022	12 in	SEE MAP	2.0%	162

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REL-CFS-015-023	12 in	SEE MAP	2.0%	162
REL-CFS-015-024	12 in	SEE MAP	2.0%	162
REL-CFS-015-025	12 in	SEE MAP	2.0%	162
REL-CFS-015-026	12 in	SEE MAP	2.0%	162
REL-CFS-015-027	12 in	SEE MAP	2.0%	162
REL-CFS-015-028	12 in	SEE MAP	2.0%	162
REL-CFS-015-029	12 in	SEE MAP	2.0%	162
REL-CFS-015-030	12 in	SEE MAP	2.0%	162
REL-CFS-015-031	12 in	SEE MAP	2.0%	162
REL-CFS-015-032	12 in	SEE MAP	2.0%	162
REL-CFS-015-033	12 in	SEE MAP	2.0%	162
REL-CFS-015-034	12 in	SEE MAP	2.0%	162
REL-CFS-015-035	12 in	SEE MAP	2.0%	162
REL-CFS-015-036	18 in	SEE MAP, CY001	2.0%	568
REL-CFS-015-037	18 in	SEE MAP, CY002	2.0%	568
REL-CFS-015-038	18 in	SEE MAP, CY003	2.0%	568
REL-CFS-015-039	18 in	SEE MAP, CY004	2.0%	568
REL-CFS-015-040	18 in	SEE MAP, CY005	2.0%	568
REL-CFS-015-041	18 in	SEE MAP, CY006	2.0%	568
REL-CFS-015-042	18 in	SEE MAP, CY007	2.0%	568
REL-CFS-015-043	18 in	SEE MAP, CY008	2.0%	568
REL-CFS-015-044	18 in	SEE MAP, CY009	2.0%	568
REL-CFS-015-045	18 in	SEE MAP, CY010	2.0%	568
REL-CFS-015-046	18 in	SEE MAP, CY011	2.0%	568
REL-CFS-015-047	18 in	SEE MAP, CY012	2.0%	568
REL-CFS-015-048	18 in	SEE MAP, CY013	2.0%	568
REL-CFS-015-049	18 in	SEE MAP, CY014	2.0%	568
REL-CFS-015-050	18 in	SEE MAP, CY015	2.0%	568
REL-CFS-015-051	18 in	SEE MAP, CY016	2.0%	568
REL-CFS-015-052	18 in	SEE MAP, CY017	2.0%	568
REL-CFS-015-053	18 in	SEE MAP, CY018	2.0%	568
REL-CFS-015-054	18 in	SEE MAP, CY019	2.0%	568
REL-CFS-015-055	18 in	SEE MAP, CY020	2.0%	568
REL-CFS-015-056	18 in	SEE MAP, CY021	2.0%	568
REL-CFS-015-057	18 in	SEE MAP, CY022	2.0%	568
REL-CFS-015-058	18 in	SEE MAP, CY023	2.0%	568
REL-CFS-015-059	18 in	SEE MAP, CY024	2.0%	568
REL-CFS-015-060	18 in	SEE MAP, CY025	2.0%	568
REL-CFS-015-061	18 in	SEE MAP, CY026	2.0%	568
REL-CFS-015-062	18 in	SEE MAP, CY027	2.0%	568
REL-CFS-015-063	18 in	SEE MAP, CY028	2.0%	568

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REL-CFS-015-064	18 in	SEE MAP, CY029	2.0%	568
REL-CFS-015-065	18 in	SEE MAP, CY030	2.0%	568
REL-CFS-015-066	18 in	SEE MAP, CY031	2.0%	568
REL-CFS-015-067	18 in	SEE MAP, CY032	2.0%	568
REL-CFS-015-068	12 in	SEE MAP	9.4%	96
REL-CFS-015-069	12 in	SEE MAP	9.4%	96
REL-CFS-015-070	12 in	SEE MAP	9.4%	96
REL-CFS-015-071	12 in	SEE MAP	9.4%	96
REL-CFS-015-072	18 in	SEE MAP	11.3%	204
REL-CFS-015-073	18 in	SEE MAP	11.3%	204
REL-CFS-015-074	18 in	SEE MAP	11.3%	204
REL-CFS-015-075	18 in	SEE MAP	11.3%	204
REL-CFS-015-076	18 in	SEE MAP	11.3%	204
REL-CFS-015-077	18 in	SEE MAP	11.3%	204
REL-CFS-015-078	18 in	SEE MAP	11.3%	204
REL-CFS-015-079	18 in	SEE MAP	11.3%	204
REL-CFS-015-080	18 in	SEE MAP	11.3%	204
REL-CFS-015-081	18 in	SEE MAP	11.3%	204
REL-CFS-015-082	18 in	SEE MAP	11.3%	204
REL-CFS-015-083	18 in	SEE MAP	11.3%	204
REL-CFS-015-084	18 in	SEE MAP	11.3%	204
REL-CFS-015-085	12 in	SEE MAP	2.0%	202
REL-CFS-015-086	12 in	SEE MAP	2.0%	202
REL-CFS-015-087	12 in	SEE MAP	2.0%	202
REL-CFS-015-088	12 in	SEE MAP	2.0%	202
REL-CFS-015-089	12 in	SEE MAP	2.0%	202
REL-CFS-015-090	12 in	SEE MAP	2.0%	202
REL-CFS-015-091	12 in	SEE MAP	2.0%	202
REL-CFS-015-092	12 in	SEE MAP	2.0%	203
REL-CFS-015-093	12 in	SEE MAP	2.0%	103
REL-CFS-015-094	12 in	SEE MAP	2.0%	103
REL-CFS-015-095	12 in	SEE MAP	2.0%	103
REL-CFS-015-096	12 in	SEE MAP	2.0%	103
REL-CFS-015-097	12 in	SEE MAP	2.0%	103
REL-CFS-015-098	12 in	SEE MAP	2.0%	103
REL-CFS-015-099	12 in	SEE MAP	2.0%	103
REL-CFS-015-100	12 in	SEE MAP	2.0%	103
REL-CFS-015-101	12 in	SEE MAP	2.0%	103
REL-CFS-015-102	12 in	SEE MAP	2.0%	103
REL-CFS-015-103	12 in	SEE MAP	2.0%	103
REL-CFS-015-104	12 in	SEE MAP	2.0%	103

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Compost Filter Socks

REL-CFS-015-105	12 in	SEE MAP	2.0%	103
REL-CFS-015-106	12 in	SEE MAP	2.0%	103
REL-CFS-015-107	12 in	SEE MAP	2.0%	103
REL-CFS-015-108	12 in	SEE MAP	29.2%	41
REL-CFS-015-109	12 in	SEE MAP	29.2%	41
REL-CFS-015-110	12 in	SEE MAP	5.1%	79
REL-CFS-015-111	12 in	SEE MAP	5.1%	79
REL-CFS-015-112	12 in	SEE MAP	5.1%	79
REL-CFS-015-113	12 in	SEE MAP	5.1%	79
REL-CFS-015-114	12 in	SEE MAP	5.1%	79
REL-CFS-015-115	12 in	SEE MAP	5.1%	79
REL-CFS-015-116	12 in	SEE MAP	5.1%	79
REL-CFS-015-117	12 in	SEE MAP	5.1%	79
REL-CFS-015-118	12 in	SEE MAP	5.1%	79
REL-CFS-015-119	12 in	SEE MAP	5.1%	79
REL-CFS-015-120	12 in	SEE MAP	5.1%	79
REL-CFS-015-121	12 in	SEE MAP	5.1%	79
REL-CFS-015-122	12 in	SEE MAP	5.1%	79
REL-CFS-015-123	12 in	SEE MAP	5.1%	79
REL-CFS-015-124	12 in	SEE MAP	5.1%	79
REL-CFS-015-125	12 in	SEE MAP	5.1%	79
REL-CFS-015-126	12 in	SEE MAP	5.1%	79
REL-CFS-015-127	12 in	SEE MAP	5.1%	79
REL-CFS-015-128	12 in	SEE MAP	5.1%	79
REL-CFS-015-129	12 in	SEE MAP	5.1%	79
REL-CFS-015-130	12 in	SEE MAP	2.0%	93
REL-CFS-015-131	12 in	SEE MAP	2.0%	93
REL-CFS-015-132	12 in	SEE MAP	2.0%	139
REL-CFS-015-133	12 in	SEE MAP	2.0%	139
REL-CFS-015-134	12 in	SEE MAP	2.2%	184
REL-CFS-015-135	12 in	SEE MAP	2.2%	184
REL-CFS-015-136	12 in	SEE MAP	2.2%	184
REL-CFS-015-137	24 in	SEE MAP	21.2%	151
REL-CFS-015-138	24 in	SEE MAP	21.2%	151
REL-CFS-015-139	24 in	SEE MAP	21.2%	151
REL-CFS-015-140	24 in	SEE MAP	21.2%	151
REL-CFS-015-141	24 in	SEE MAP	21.2%	151
REL-CFS-015-142	24 in	SEE MAP	21.2%	151
REL-CFS-015-143	24 in	SEE MAP	21.2%	151
REL-CFS-015-144	24 in	SEE MAP	21.2%	151
REL-CFS-015-145	24 in	SEE MAP	21.2%	151

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-015-146	24 in	SEE MAP	21.2%	151
REL-CFS-015-147	24 in	SEE MAP	21.2%	151
REL-CFS-015-148	24 in	SEE MAP	21.2%	151
REL-CFS-015-149	24 in	SEE MAP	21.2%	151
REL-CFS-015-150	24 in	SEE MAP	21.2%	151
REL-CFS-015-151	24 in	SEE MAP	21.2%	151
REL-CFS-015-152	24 in	SEE MAP	21.2%	151
REL-CFS-015-153	24 in	SEE MAP	21.2%	151
REL-CFS-015-154	24 in	SEE MAP	21.2%	151
REL-CFS-015-155	24 in	SEE MAP	21.2%	151
REL-CFS-015-156	24 in	SEE MAP	21.2%	151
REL-CFS-015-157	12 in	SEE MAP	6.1%	114
REL-CFS-015-158	12 in	SEE MAP	6.1%	114
REL-CFS-015-159	12 in	SEE MAP	6.1%	114
REL-CFS-015-160	12 in	SEE MAP	6.1%	114
REL-CFS-015-161	12 in	SEE MAP	6.1%	114
REL-CFS-015-162	12 in	SEE MAP	6.1%	114
REL-CFS-015-163	18 in	SEE MAP	37.0%	38
REL-CFS-015-164	18 in	SEE MAP	37.0%	38
REL-CFS-015-165	18 in	SEE MAP	37.0%	38
REL-CFS-015-166	18 in	SEE MAP	37.0%	38
REL-CFS-015-167	18 in	SEE MAP	37.0%	38
REL-CFS-015-168	18 in	SEE MAP	37.0%	38
REL-CFS-015-169	18 in	SEE MAP	37.0%	38
REL-CFS-015-170	18 in	SEE MAP	37.0%	38
REL-CFS-015-171	24 in	SEE MAP	41.5%	53
REL-CFS-015-172	24 in	SEE MAP	23.7%	135
REL-CFS-015-173	18 in	SEE MAP	15.6%	128
REL-CFS-015-174	24 in	SEE MAP	18.9%	190
REL-CFS-015-175	24 in	SEE MAP	18.9%	190
REL-CFS-015-176	24 in	SEE MAP	18.9%	190
REL-CFS-015-177	24 in	SEE MAP	18.9%	190
REL-CFS-015-178	24 in	SEE MAP	18.9%	190
REL-CFS-015-179	24 in	SEE MAP	18.9%	190
REL-CFS-015-180	24 in	SEE MAP	18.9%	190
REL-CFS-015-181	24 in	SEE MAP	18.9%	190
REL-CFS-015-182	24 in	SEE MAP	18.9%	190
REL-CFS-015-183	24 in	SEE MAP	18.9%	190
REL-CFS-015-184	24 in	SEE MAP	18.9%	190
REL-CFS-015-185	24 in	SEE MAP	18.9%	190
REL-CFS-015-186	24 in	SEE MAP	25.6%	135

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-015-187	24 in	SEE MAP	25.6%	135
REL-CFS-015-188	24 in	SEE MAP	25.6%	135
REL-CFS-015-189	24 in	SEE MAP	25.6%	135
REL-CFS-015-190	24 in	SEE MAP	25.6%	135
REL-CFS-015-191	24 in	SEE MAP	25.6%	135
REL-CFS-015-192	24 in	SEE MAP	25.6%	135
REL-CFS-015-193	24 in	SEE MAP	25.6%	135
REL-CFS-015-194	24 in	SEE MAP	25.6%	135
REL-CFS-015-195	24 in	SEE MAP	25.6%	135
REL-CFS-015-196	24 in	SEE MAP	25.6%	135
REL-CFS-015-197	24 in	SEE MAP	25.6%	135
REL-CFS-015-198	24 in	SEE MAP	25.6%	135
REL-CFS-015-199	24 in	SEE MAP	25.6%	135
REL-CFS-016-001	18 in	SEE MAP	17.5%	126
REL-CFS-016-002	18 in	SEE MAP	17.5%	126
REL-CFS-016-003	18 in	SEE MAP	17.5%	126
REL-CFS-016-004	18 in	SEE MAP	17.5%	126
REL-CFS-016-005	18 in	SEE MAP	17.5%	126
REL-CFS-016-006	18 in	SEE MAP	17.5%	126
REL-CFS-016-007	18 in	SEE MAP	17.5%	126
REL-CFS-016-008	18 in	SEE MAP	17.5%	126
REL-CFS-016-009	18 in	SEE MAP	17.5%	126
REL-CFS-016-010	18 in	SEE MAP	17.5%	126
REL-CFS-016-011	18 in	SEE MAP	17.5%	126
REL-CFS-016-012	18 in	SEE MAP	17.5%	126
REL-CFS-016-013	18 in	SEE MAP	17.5%	126
REL-CFS-016-014	18 in	SEE MAP	17.5%	126
REL-CFS-016-015	18 in	SEE MAP	17.5%	126
REL-CFS-016-016	18 in	SEE MAP	17.5%	126
REL-CFS-016-017	18 in	SEE MAP	17.5%	126
REL-CFS-016-018	18 in	SEE MAP	17.5%	126
REL-CFS-016-019	18 in	SEE MAP	17.5%	126
REL-CFS-016-020	18 in	SEE MAP	17.5%	126
REL-CFS-016-021	18 in	SEE MAP	17.5%	126
REL-CFS-016-022	18 in	SEE MAP	17.5%	126
REL-CFS-016-023	18 in	SEE MAP	17.5%	126
REL-CFS-016-024	18 in	SEE MAP	17.5%	126
REL-CFS-016-025	18 in	SEE MAP	17.5%	126
REL-CFS-016-026	18 in	SEE MAP	17.5%	126
REL-CFS-016-027	12 in	SEE MAP	12.7%	126
REL-CFS-016-028	12 in	SEE MAP	12.7%	126
REL-CFS-016-029	12 in	SEE MAP	12.7%	126

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-030	12 in	SEE MAP	12.7%	126
REL-CFS-016-031	12 in	SEE MAP	12.7%	126
REL-CFS-016-032	12 in	SEE MAP	12.7%	126
REL-CFS-016-033	12 in	SEE MAP	12.7%	126
REL-CFS-016-034	12 in	SEE MAP	12.7%	126
REL-CFS-016-035	12 in	SEE MAP	12.7%	126
REL-CFS-016-036	12 in	SEE MAP	12.7%	126
REL-CFS-016-037	12 in	SEE MAP	12.7%	126
REL-CFS-016-038	12 in	SEE MAP	12.7%	126
REL-CFS-016-039	12 in	SEE MAP	12.7%	126
REL-CFS-016-040	12 in	SEE MAP	12.7%	126
REL-CFS-016-041	12 in	SEE MAP	12.7%	126
REL-CFS-016-042	12 in	SEE MAP	12.7%	126
REL-CFS-016-043	12 in	SEE MAP	12.7%	126
REL-CFS-016-044	12 in	SEE MAP	12.7%	126
REL-CFS-016-045	12 in	SEE MAP	12.7%	126
REL-CFS-016-046	12 in	SEE MAP	12.7%	126
REL-CFS-016-047	12 in	SEE MAP	12.7%	126
REL-CFS-016-048	12 in	SEE MAP	12.7%	126
REL-CFS-016-049	12 in	SEE MAP	12.7%	126
REL-CFS-016-050	12 in	SEE MAP	12.7%	126
REL-CFS-016-051	12 in	SEE MAP	12.7%	126
REL-CFS-016-052	12 in	SEE MAP	12.7%	126
REL-CFS-016-053	12 in	SEE MAP	12.7%	126
REL-CFS-016-054	12 in	SEE MAP	12.7%	126
REL-CFS-016-055	12 in	SEE MAP	12.7%	126
REL-CFS-016-056	12 in	SEE MAP	12.7%	126
REL-CFS-016-057	12 in	SEE MAP	12.7%	126
REL-CFS-016-058	12 in	SEE MAP	12.7%	126
REL-CFS-016-059	12 in	SEE MAP	12.7%	126
REL-CFS-016-060	12 in	SEE MAP	12.7%	126
REL-CFS-016-061	12 in	SEE MAP	12.7%	126
REL-CFS-016-062	12 in	SEE MAP	12.7%	126
REL-CFS-016-063	12 in	SEE MAP	12.7%	126
REL-CFS-016-064	12 in	SEE MAP	12.7%	126
REL-CFS-016-065	12 in	SEE MAP	12.7%	126
REL-CFS-016-066	12 in	SEE MAP	12.7%	126
REL-CFS-016-067	12 in	SEE MAP	12.7%	126
REL-CFS-016-068	12 in	SEE MAP	12.7%	126
REL-CFS-016-069	12 in	SEE MAP	28.6%	28
REL-CFS-016-070	12 in	SEE MAP	28.6%	28

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-071	12 in	SEE MAP	28.6%	28
REL-CFS-016-072	12 in	SEE MAP	28.6%	28
REL-CFS-016-073	12 in	SEE MAP	28.6%	28
REL-CFS-016-074	12 in	SEE MAP	28.6%	28
REL-CFS-016-075	12 in	SEE MAP	28.6%	28
REL-CFS-016-076	12 in	SEE MAP	29.7%	47
REL-CFS-016-077	12 in	SEE MAP	29.7%	47
REL-CFS-016-078	12 in	SEE MAP	29.7%	47
REL-CFS-016-079	12 in	SEE MAP	29.7%	47
REL-CFS-016-080	12 in	SEE MAP	29.7%	47
REL-CFS-016-081	12 in	SEE MAP	29.7%	47
REL-CFS-016-082	24 in	SEE MAP	31.1%	84
REL-CFS-016-083	24 in	SEE MAP	31.1%	84
REL-CFS-016-084	24 in	SEE MAP	31.1%	84
REL-CFS-016-085	24 in	SEE MAP	31.1%	84
REL-CFS-016-086	24 in	SEE MAP	31.1%	84
REL-CFS-016-087	24 in	SEE MAP	31.1%	84
REL-CFS-016-088	24 in	SEE MAP	31.1%	84
REL-CFS-016-089	24 in	SEE MAP	31.1%	84
REL-CFS-016-090	24 in	SEE MAP	31.1%	84
REL-CFS-016-091	24 in	SEE MAP	31.1%	84
REL-CFS-016-092	24 in	SEE MAP	31.1%	84
REL-CFS-016-093	24 in	SEE MAP	31.1%	84
REL-CFS-016-094	24 in	SEE MAP	31.1%	84
REL-CFS-016-095	24 in	SEE MAP	31.1%	84
REL-CFS-016-096	24 in	SEE MAP	31.1%	84
REL-CFS-016-097	24 in	SEE MAP	31.1%	84
REL-CFS-016-098	12 in	SEE MAP	9.5%	42
REL-CFS-016-099	12 in	SEE MAP	9.5%	42
REL-CFS-016-100	12 in	SEE MAP	14.7%	68
REL-CFS-016-101	12 in	SEE MAP	14.7%	68
REL-CFS-016-102	12 in	SEE MAP	14.7%	68
REL-CFS-016-103	12 in	SEE MAP	14.7%	68
REL-CFS-016-104	12 in	SEE MAP	14.7%	68
REL-CFS-016-105	12 in	SEE MAP	14.7%	68
REL-CFS-016-106	12 in	SEE MAP	14.7%	68
REL-CFS-016-107	12 in	SEE MAP	14.7%	68
REL-CFS-016-108	12 in	SEE MAP	14.7%	68
REL-CFS-016-109	12 in	SEE MAP	14.7%	68
REL-CFS-016-110	12 in	SEE MAP	14.7%	68
REL-CFS-016-111	12 in	SEE MAP	14.7%	68

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-112	12 in	SEE MAP	14.7%	68
REL-CFS-016-113	12 in	SEE MAP	14.7%	68
REL-CFS-016-114	12 in	SEE MAP	14.7%	68
REL-CFS-016-115	12 in	SEE MAP	14.7%	68
REL-CFS-016-116	12 in	SEE MAP	14.7%	68
REL-CFS-016-117	12 in	SEE MAP	14.7%	68
REL-CFS-016-118	12 in	SEE MAP	14.7%	68
REL-CFS-016-119	12 in	SEE MAP	14.7%	68
REL-CFS-016-120	12 in	SEE MAP	14.7%	68
REL-CFS-016-121	12 in	SEE MAP	14.7%	68
REL-CFS-016-122	12 in	SEE MAP	14.7%	68
REL-CFS-016-123	12 in	SEE MAP	14.7%	68
REL-CFS-016-124	12 in	SEE MAP	14.7%	68
REL-CFS-016-125	12 in	SEE MAP	14.7%	68
REL-CFS-016-126	12 in	SEE MAP	14.7%	68
REL-CFS-016-127	12 in	SEE MAP	14.7%	68
REL-CFS-016-128	12 in	SEE MAP	14.7%	68
REL-CFS-016-129	12 in	SEE MAP	14.7%	68
REL-CFS-016-130	12 in	SEE MAP	14.7%	68
REL-CFS-016-131	12 in	SEE MAP	14.7%	68
REL-CFS-016-132	12 in	SEE MAP	14.7%	68
REL-CFS-016-133	12 in	SEE MAP	14.7%	68
REL-CFS-016-134	12 in	SEE MAP	14.7%	68
REL-CFS-016-135	12 in	SEE MAP	14.7%	68
REL-CFS-016-136	12 in	SEE MAP	14.7%	68
REL-CFS-016-137	12 in	SEE MAP	14.7%	68
REL-CFS-016-138	12 in	SEE MAP	14.7%	68
REL-CFS-016-139	12 in	SEE MAP	14.7%	68
REL-CFS-016-140	12 in	SEE MAP	14.7%	68
REL-CFS-016-141	12 in	SEE MAP	14.7%	68
REL-CFS-016-142	12 in	SEE MAP	14.7%	68
REL-CFS-016-143	12 in	SEE MAP	14.7%	68
REL-CFS-016-144	12 in	SEE MAP	14.7%	68
REL-CFS-016-145	12 in	SEE MAP	14.7%	68
REL-CFS-016-146	12 in	SEE MAP	14.7%	68
REL-CFS-016-147	12 in	SEE MAP	14.7%	68
REL-CFS-016-148	12 in	SEE MAP	14.7%	68
REL-CFS-016-149	12 in	SEE MAP	14.7%	68
REL-CFS-016-150	12 in	SEE MAP	14.7%	68
REL-CFS-016-151	12 in	SEE MAP	14.7%	68
REL-CFS-016-152	12 in	SEE MAP	14.7%	68

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-153	12 in	SEE MAP	14.7%	68
REL-CFS-016-154	12 in	SEE MAP	14.7%	68
REL-CFS-016-155	12 in	SEE MAP	14.7%	68
REL-CFS-016-156	12 in	SEE MAP	14.7%	68
REL-CFS-016-157	12 in	SEE MAP	14.7%	68
REL-CFS-016-158	12 in	SEE MAP	14.7%	68
REL-CFS-016-159	12 in	SEE MAP	14.7%	68
REL-CFS-016-160	12 in	SEE MAP	14.7%	68
REL-CFS-016-161	12 in	SEE MAP	14.7%	68
REL-CFS-016-162	12 in	SEE MAP	14.7%	68
REL-CFS-016-163	12 in	SEE MAP	14.7%	68
REL-CFS-016-164	12 in	SEE MAP	14.7%	68
REL-CFS-016-165	12 in	SEE MAP	5.1%	197
REL-CFS-016-166	12 in	SEE MAP	5.1%	197
REL-CFS-016-167	12 in	SEE MAP	5.1%	125
REL-CFS-016-168	12 in	SEE MAP	5.1%	125
REL-CFS-016-169	18 in	SEE MAP	10.3%	195
REL-CFS-016-170	18 in	SEE MAP	10.3%	195
REL-CFS-016-171	18 in	SEE MAP	10.3%	195
REL-CFS-016-172	18 in	SEE MAP	10.3%	195
REL-CFS-016-173	18 in	SEE MAP	10.3%	195
REL-CFS-016-174	18 in	SEE MAP	10.3%	195
REL-CFS-016-175	18 in	SEE MAP	10.3%	195
REL-CFS-016-176	18 in	SEE MAP	10.3%	195
REL-CFS-016-177	18 in	SEE MAP	10.3%	195
REL-CFS-016-178	18 in	SEE MAP	10.3%	195
REL-CFS-016-179	18 in	SEE MAP	10.3%	195
REL-CFS-016-180	18 in	SEE MAP	10.3%	195
REL-CFS-016-181	18 in	SEE MAP	10.3%	195
REL-CFS-016-182	18 in	SEE MAP	10.3%	195
REL-CFS-016-183	18 in	SEE MAP	10.3%	195
REL-CFS-016-184	18 in	SEE MAP	10.3%	195
REL-CFS-016-185	18 in	SEE MAP	10.3%	195
REL-CFS-016-186	18 in	SEE MAP	10.3%	195
REL-CFS-016-187	18 in	SEE MAP	10.3%	195
REL-CFS-016-188	18 in	SEE MAP	10.3%	195
REL-CFS-016-189	18 in	SEE MAP	10.3%	195
REL-CFS-016-190	18 in	SEE MAP	10.3%	195
REL-CFS-016-191	18 in	SEE MAP	10.3%	195
REL-CFS-016-192	12 in	SEE MAP	8.9%	56

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-193	32 in	SEE MAP	8.9%	56
REL-CFS-016-194	12 in	SEE MAP	8.2%	49
REL-CFS-016-195	12 in	SEE MAP	8.2%	49
REL-CFS-016-196	12 in	SEE MAP	14.5%	83
REL-CFS-016-197	12 in	SEE MAP	14.5%	83
REL-CFS-016-198	12 in	SEE MAP	14.5%	83
REL-CFS-016-199	12 in	SEE MAP	14.5%	83
REL-CFS-016-200	12 in	SEE MAP	14.5%	83
REL-CFS-016-201	12 in	SEE MAP	14.5%	83
REL-CFS-016-202	12 in	SEE MAP	14.5%	83
REL-CFS-016-203	12 in	SEE MAP	14.5%	83
REL-CFS-016-204	12 in	SEE MAP	14.5%	83
REL-CFS-016-205	12 in	SEE MAP	14.5%	83
REL-CFS-016-206	12 in	SEE MAP	14.5%	83
REL-CFS-016-207	12 in	SEE MAP	14.5%	83
REL-CFS-016-208	12 in	SEE MAP	14.5%	83
REL-CFS-016-209	12 in	SEE MAP	14.5%	83
REL-CFS-016-210	12 in	SEE MAP	14.5%	83
REL-CFS-016-211	12 in	SEE MAP	14.5%	83
REL-CFS-016-212	18 in	SEE MAP	27.5%	80
REL-CFS-016-213	18 in	SEE MAP	27.5%	80
REL-CFS-016-214	18 in	SEE MAP	27.5%	80
REL-CFS-016-215	18 in	SEE MAP	27.5%	80
REL-CFS-016-216	18 in	SEE MAP	27.5%	80
REL-CFS-016-217	18 in	SEE MAP	27.5%	80
REL-CFS-016-218	18 in	SEE MAP	27.5%	80
REL-CFS-016-219	18 in	SEE MAP	27.5%	80
REL-CFS-016-220	18 in	SEE MAP	27.5%	80
REL-CFS-016-221	18 in	SEE MAP	27.5%	80
REL-CFS-016-222	18 in	SEE MAP	27.5%	80
REL-CFS-016-223	18 in	SEE MAP	27.5%	80
REL-CFS-016-224	18 in	SEE MAP	27.5%	80
REL-CFS-016-225	18 in	SEE MAP	27.5%	80
REL-CFS-016-226	12 in	SEE MAP	22.2%	45
REL-CFS-016-227	12 in	SEE MAP	22.2%	45
REL-CFS-016-228	12 in	SEE MAP	22.2%	45
REL-CFS-016-229	12 in	SEE MAP	22.2%	45
REL-CFS-016-230	12 in	SEE MAP	22.2%	45
REL-CFS-016-231	12 in	SEE MAP	22.2%	45
REL-CFS-016-232	12 in	SEE MAP	22.2%	45
REL-CFS-016-233	12 in	SEE MAP	22.2%	45

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-234	12 in	SEE MAP	22.2%	45
REL-CFS-016-235	12 in	SEE MAP	22.2%	45
REL-CFS-016-236	12 in	SEE MAP	22.2%	45
REL-CFS-016-237	12 in	SEE MAP	22.2%	45
REL-CFS-016-238	12 in	SEE MAP	22.2%	45
REL-CFS-016-239	12 in	SEE MAP	22.2%	45
REL-CFS-016-240	12 in	SEE MAP	22.2%	45
REL-CFS-016-241	12 in	SEE MAP	22.2%	45
REL-CFS-016-242	18 in	SEE MAP	23.0%	79
REL-CFS-016-243	18 in	SEE MAP	23.0%	79
REL-CFS-016-244	18 in	SEE MAP	23.0%	79
REL-CFS-016-245	18 in	SEE MAP	23.0%	79
REL-CFS-016-246	18 in	SEE MAP	23.0%	79
REL-CFS-016-247	18 in	SEE MAP	23.0%	79
REL-CFS-016-248	18 in	SEE MAP	23.0%	79
REL-CFS-016-249	18 in	SEE MAP	23.0%	79
REL-CFS-016-250	18 in	SEE MAP	23.0%	79
REL-CFS-016-251	18 in	SEE MAP	22.0%	72
REL-CFS-016-252	18 in	SEE MAP	22.0%	72
REL-CFS-016-253	18 in	SEE MAP	22.0%	72
REL-CFS-016-254	18 in	SEE MAP	22.0%	72
REL-CFS-016-255	18 in	SEE MAP	22.0%	72
REL-CFS-016-256	18 in	SEE MAP	22.0%	72
REL-CFS-016-257	18 in	SEE MAP	22.0%	72
REL-CFS-016-258	18 in	SEE MAP	22.0%	72
REL-CFS-016-259	18 in	SEE MAP	22.0%	72
REL-CFS-016-260	18 in	SEE MAP	22.0%	72
REL-CFS-016-261	18 in	SEE MAP	22.0%	72
REL-CFS-016-262	18 in	SEE MAP	22.0%	72
REL-CFS-016-263	18 in	SEE MAP	22.0%	72
REL-CFS-016-264	18 in	SEE MAP	22.0%	72
REL-CFS-016-265	18 in	SEE MAP	22.0%	72
REL-CFS-016-266	18 in	SEE MAP	22.0%	72
REL-CFS-016-267	18 in	SEE MAP	22.0%	72
REL-CFS-016-268	18 in	SEE MAP	22.0%	72
REL-CFS-016-269	18 in	SEE MAP	22.0%	72
REL-CFS-016-270	18 in	SEE MAP	21.6%	83
REL-CFS-016-271	18 in	SEE MAP	21.6%	83
REL-CFS-016-272	18 in	SEE MAP	21.6%	83
REL-CFS-016-273	18 in	SEE MAP	21.6%	83
REL-CFS-016-274	18 in	SEE MAP	21.6%	83

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-275	18 in	SEE MAP	21.6%	83
REL-CFS-016-276	18 in	SEE MAP	21.6%	83
REL-CFS-016-277	18 in	SEE MAP	21.6%	83
REL-CFS-016-278	18 in	SEE MAP	21.6%	83
REL-CFS-016-279	18 in	SEE MAP	21.6%	83
REL-CFS-016-280	18 in	SEE MAP	21.6%	83
REL-CFS-016-281	18 in	SEE MAP	21.6%	83
REL-CFS-016-282	18 in	SEE MAP	21.6%	83
REL-CFS-016-283	18 in	SEE MAP	21.6%	83
REL-CFS-016-284	18 in	SEE MAP	21.6%	83
REL-CFS-016-285	18 in	SEE MAP	21.6%	83
REL-CFS-016-286	18 in	SEE MAP	21.6%	83
REL-CFS-016-287	18 in	SEE MAP	21.6%	83
REL-CFS-016-288	18 in	SEE MAP	21.6%	83
REL-CFS-016-289	18 in	SEE MAP	21.6%	83
REL-CFS-016-290	18 in	SEE MAP	21.6%	83
REL-CFS-016-291	18 in	SEE MAP	21.6%	83
REL-CFS-016-292	18 in	SEE MAP	21.6%	83
REL-CFS-016-293	18 in	SEE MAP	21.6%	83
REL-CFS-016-294	18 in	SEE MAP	21.6%	83
REL-CFS-016-295	18 in	SEE MAP	21.6%	83
REL-CFS-016-296	18 in	SEE MAP	21.6%	83
REL-CFS-016-297	18 in	SEE MAP	21.6%	83
REL-CFS-016-298	18 in	SEE MAP	21.6%	83
REL-CFS-016-299	18 in	SEE MAP	21.6%	83
REL-CFS-016-300	18 in	SEE MAP	21.6%	83
REL-CFS-016-301	18 in	SEE MAP	21.6%	83
REL-CFS-016-302	18 in	SEE MAP	21.6%	83
REL-CFS-016-303	18 in	SEE MAP	21.6%	83
REL-CFS-016-304	18 in	SEE MAP	21.6%	83
REL-CFS-016-305	18 in	SEE MAP	21.6%	83
REL-CFS-016-306	18 in	SEE MAP	21.6%	83
REL-CFS-016-307	18 in	SEE MAP	21.6%	83
REL-CFS-016-308	18 in	SEE MAP	21.6%	83
REL-CFS-016-309	18 in	SEE MAP	21.6%	83
REL-CFS-016-310	18 in	SEE MAP	21.6%	83
REL-CFS-016-311	18 in	SEE MAP	21.6%	83
REL-CFS-016-312	18 in	SEE MAP	21.6%	83
REL-CFS-016-313	18 in	SEE MAP	21.6%	83
REL-CFS-016-314	18 in	SEE MAP	21.6%	83
REL-CFS-016-315	18 in	SEE MAP	21.6%	83

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-316	18 in	SEE MAP	21.6%	83
REL-CFS-016-317	18 in	SEE MAP	21.6%	83
REL-CFS-016-318	18 in	SEE MAP	21.6%	83
REL-CFS-016-319	18 in	SEE MAP	21.6%	83
REL-CFS-016-320	18 in	SEE MAP	21.6%	83
REL-CFS-016-321	18 in	SEE MAP	21.6%	83
REL-CFS-016-322	18 in	SEE MAP	21.6%	83
REL-CFS-016-323	18 in	SEE MAP	21.6%	83
REL-CFS-016-324	18 in	SEE MAP	21.6%	83
REL-CFS-016-325	18 in	SEE MAP	21.6%	83
REL-CFS-016-326	18 in	SEE MAP	21.6%	83
REL-CFS-016-327	18 in	SEE MAP	21.6%	83
REL-CFS-016-328	18 in	SEE MAP	21.6%	83
REL-CFS-016-329	18 in	SEE MAP	21.6%	83
REL-CFS-016-330	18 in	SEE MAP	21.6%	83
REL-CFS-016-331	18 in	SEE MAP	21.6%	83
REL-CFS-016-332	18 in	SEE MAP	21.6%	83
REL-CFS-016-333	18 in	SEE MAP	21.6%	83
REL-CFS-016-334	18 in	SEE MAP	21.6%	83
REL-CFS-016-335	18 in	SEE MAP	21.6%	83
REL-CFS-016-336	18 in	SEE MAP	21.6%	83
REL-CFS-016-337	18 in	SEE MAP	21.6%	83
REL-CFS-016-338	18 in	SEE MAP	21.6%	83
REL-CFS-016-339	18 in	SEE MAP	21.6%	83
REL-CFS-016-340	18 in	SEE MAP	21.6%	83
REL-CFS-016-341	18 in	SEE MAP	21.6%	83
REL-CFS-016-342	18 in	SEE MAP	21.6%	83
REL-CFS-016-343	18 in	SEE MAP	21.6%	83
REL-CFS-016-344	18 in	SEE MAP	21.6%	83
REL-CFS-016-345	18 in	SEE MAP	21.6%	83
REL-CFS-016-346	18 in	SEE MAP	21.6%	83
REL-CFS-016-347	18 in	SEE MAP	21.6%	83
REL-CFS-016-348	18 in	SEE MAP	21.6%	83
REL-CFS-016-349	18 in	SEE MAP	21.6%	83
REL-CFS-016-350	18 in	SEE MAP	21.6%	83
REL-CFS-016-351	18 in	SEE MAP	21.6%	83
REL-CFS-016-352	18 in	SEE MAP	21.6%	83
REL-CFS-016-353	18 in	SEE MAP	21.6%	83
REL-CFS-016-354	18 in	SEE MAP	21.6%	83
REL-CFS-016-355	18 in	SEE MAP	21.6%	83
REL-CFS-016-356	18 in	SEE MAP	21.6%	83

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-357	18 in	SEE MAP	21.6%	83
REL-CFS-016-358	18 in	SEE MAP	21.6%	83
REL-CFS-016-359	18 in	SEE MAP	21.6%	83
REL-CFS-016-360	18 in	SEE MAP	21.6%	83
REL-CFS-016-361	18 in	SEE MAP	21.6%	83
REL-CFS-016-362	18 in	SEE MAP	21.9%	83
REL-CFS-016-363	18 in	SEE MAP	21.9%	83
REL-CFS-016-364	18 in	SEE MAP	21.9%	83
REL-CFS-016-365	18 in	SEE MAP	21.9%	83
REL-CFS-016-366	18 in	SEE MAP	21.9%	83
REL-CFS-016-367	18 in	SEE MAP	21.9%	83
REL-CFS-016-368	18 in	SEE MAP	21.9%	83
REL-CFS-016-369	18 in	SEE MAP	21.9%	83
REL-CFS-016-370	18 in	SEE MAP	21.9%	83
REL-CFS-016-371	18 in	SEE MAP	21.9%	83
REL-CFS-016-372	18 in	SEE MAP	21.9%	83
REL-CFS-016-373	18 in	SEE MAP	21.9%	83
REL-CFS-016-374	18 in	SEE MAP	21.9%	83
REL-CFS-016-375	18 in	SEE MAP	21.9%	83
REL-CFS-016-376	18 in	SEE MAP	21.9%	83
REL-CFS-016-377	18 in	SEE MAP	21.9%	83
REL-CFS-016-378	18 in	SEE MAP	21.9%	83
REL-CFS-016-379	18 in	SEE MAP	21.9%	83
REL-CFS-016-380	18 in	SEE MAP	21.9%	83
REL-CFS-016-381	18 in	SEE MAP	21.9%	83
REL-CFS-016-382	18 in	SEE MAP	21.9%	83
REL-CFS-016-383	18 in	SEE MAP	21.9%	83
REL-CFS-016-384	18 in	SEE MAP	21.9%	83
REL-CFS-016-385	18 in	SEE MAP	21.9%	83
REL-CFS-016-386	18 in	SEE MAP	21.9%	83
REL-CFS-016-387	18 in	SEE MAP	21.9%	83
REL-CFS-016-388	18 in	SEE MAP	21.9%	83
REL-CFS-016-389	18 in	SEE MAP	21.9%	83
REL-CFS-016-390	18 in	SEE MAP	21.9%	83
REL-CFS-016-391	18 in	SEE MAP	21.9%	83
REL-CFS-016-392	18 in	SEE MAP	21.9%	83
REL-CFS-016-393	18 in	SEE MAP	21.9%	83
REL-CFS-016-394	18 in	SEE MAP	21.9%	83
REL-CFS-016-395	18 in	SEE MAP	21.9%	83
REL-CFS-016-396	18 in	SEE MAP	21.9%	83
REL-CFS-016-397	18 in	SEE MAP	21.9%	83

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-398	18 in	SEE MAP	21.9%	83
REL-CFS-016-399	18 in	SEE MAP	21.9%	83
REL-CFS-016-400	18 in	SEE MAP	21.9%	83
REL-CFS-016-401	18 in	SEE MAP	21.9%	83
REL-CFS-016-402	18 in	SEE MAP	21.9%	83
REL-CFS-016-403	18 in	SEE MAP	21.9%	83
REL-CFS-016-404	18 in	SEE MAP	21.9%	83
REL-CFS-016-405	18 in	SEE MAP	21.9%	83
REL-CFS-016-406	18 in	SEE MAP	21.9%	83
REL-CFS-016-407	18 in	SEE MAP	21.9%	83
REL-CFS-016-408	18 in	SEE MAP	21.9%	83
REL-CFS-016-409	18 in	SEE MAP	21.9%	83
REL-CFS-016-410	18 in	SEE MAP	21.9%	83
REL-CFS-016-411	18 in	SEE MAP	21.9%	83
REL-CFS-016-412	18 in	SEE MAP	21.9%	83
REL-CFS-016-413	18 in	SEE MAP	21.9%	83
REL-CFS-016-414	18 in	SEE MAP	21.9%	83
REL-CFS-016-415	18 in	SEE MAP	21.9%	83
REL-CFS-016-416	18 in	SEE MAP	21.9%	83
REL-CFS-016-417	18 in	SEE MAP	21.9%	83
REL-CFS-016-418	18 in	SEE MAP	21.9%	83
REL-CFS-016-419	18 in	SEE MAP	21.9%	83
REL-CFS-016-420	18 in	SEE MAP	21.9%	83
REL-CFS-016-421	18 in	SEE MAP	21.9%	83
REL-CFS-016-422	18 in	SEE MAP	21.9%	83
REL-CFS-016-423	18 in	SEE MAP	21.9%	83
REL-CFS-016-424	18 in	SEE MAP	21.9%	83
REL-CFS-016-425	18 in	SEE MAP	21.9%	83
REL-CFS-016-426	18 in	SEE MAP	21.9%	83
REL-CFS-016-427	18 in	SEE MAP	21.9%	83
REL-CFS-016-428	18 in	SEE MAP	21.9%	83
REL-CFS-016-429	18 in	SEE MAP	21.9%	83
REL-CFS-016-430	18 in	SEE MAP	21.9%	83
REL-CFS-016-431	18 in	SEE MAP	21.9%	83
REL-CFS-016-432	18 in	SEE MAP	21.9%	83
REL-CFS-016-433	18 in	SEE MAP	21.9%	83
REL-CFS-016-434	18 in	SEE MAP	21.9%	83
REL-CFS-016-435	18 in	SEE MAP	21.9%	83
REL-CFS-016-436	18 in	SEE MAP	21.9%	83
REL-CFS-016-437	18 in	SEE MAP	21.9%	83
REL-CFS-016-438	18 in	SEE MAP	21.9%	83

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-439	18 in	SEE MAP	21.9%	83
REL-CFS-016-411	18 in	SEE MAP	21.9%	83
REL-CFS-016-412	18 in	SEE MAP	21.9%	83
REL-CFS-016-413	18 in	SEE MAP	21.9%	83
REL-CFS-016-414	18 in	SEE MAP	21.9%	83
REL-CFS-016-415	18 in	SEE MAP	21.9%	83
REL-CFS-016-416	18 in	SEE MAP	21.9%	83
REL-CFS-016-417	18 in	SEE MAP	21.9%	83
REL-CFS-016-418	18 in	SEE MAP	21.9%	83
REL-CFS-016-419	18 in	SEE MAP	21.9%	83
REL-CFS-016-420	18 in	SEE MAP	21.9%	83
REL-CFS-016-421	18 in	SEE MAP	21.9%	83
REL-CFS-016-422	18 in	SEE MAP	21.9%	83
REL-CFS-016-423	18 in	SEE MAP	21.9%	83
REL-CFS-016-424	18 in	SEE MAP	21.9%	83
REL-CFS-016-425	18 in	SEE MAP	21.9%	83
REL-CFS-016-426	18 in	SEE MAP	21.9%	83
REL-CFS-016-427	18 in	SEE MAP	21.9%	83
REL-CFS-016-428	18 in	SEE MAP	21.9%	83
REL-CFS-016-429	18 in	SEE MAP	21.9%	83
REL-CFS-016-430	18 in	SEE MAP	21.9%	83
REL-CFS-016-431	18 in	SEE MAP	21.9%	83
REL-CFS-016-432	18 in	SEE MAP	21.9%	83
REL-CFS-016-433	18 in	SEE MAP	21.9%	83
REL-CFS-016-434	18 in	SEE MAP	21.9%	83
REL-CFS-016-435	18 in	SEE MAP	21.9%	83
REL-CFS-016-436	18 in	SEE MAP	21.9%	83
REL-CFS-016-437	18 in	SEE MAP	21.9%	83
REL-CFS-016-438	18 in	SEE MAP	21.9%	83
REL-CFS-016-439	18 in	SEE MAP	21.9%	83
REL-CFS-016-440	12 in	SEE MAP	4.7%	129
REL-CFS-016-441	12 in	SEE MAP	4.7%	129
REL-CFS-016-442	12 in	SEE MAP	4.7%	129
REL-CFS-016-443	12 in	SEE MAP	4.7%	129
REL-CFS-016-444	12 in	SEE MAP	8.6%	93
REL-CFS-016-445	12 in	SEE MAP	8.6%	93
REL-CFS-016-446	12 in	SEE MAP	8.6%	93
REL-CFS-016-447	12 in	SEE MAP	8.6%	93
REL-CFS-016-448	12 in	SEE MAP	8.6%	93
REL-CFS-016-449	12 in	SEE MAP	8.6%	93
REL-CFS-016-450	12 in	SEE MAP	8.6%	93

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-451	12 in	SEE MAP	8.6%	93
REL-CFS-016-452	12 in	SEE MAP	8.6%	93
REL-CFS-016-453	12 in	SEE MAP	8.6%	93
REL-CFS-016-454	12 in	SEE MAP	8.6%	93
REL-CFS-016-455	12 in	SEE MAP	7.1%	168
REL-CFS-016-456	12 in	SEE MAP	7.1%	168
REL-CFS-016-457	12 in	SEE MAP	7.1%	168
REL-CFS-016-458	12 in	SEE MAP	7.1%	168
REL-CFS-016-459	12 in	SEE MAP	7.1%	168
REL-CFS-016-460	12 in	SEE MAP	7.1%	168
REL-CFS-016-461	18 in	SEE MAP	13.0%	154
REL-CFS-016-462	18 in	SEE MAP	13.0%	154
REL-CFS-016-463	18 in	SEE MAP	13.0%	154
REL-CFS-016-464	18 in	SEE MAP	13.0%	154
REL-CFS-016-465	18 in	SEE MAP	13.0%	154
REL-CFS-016-466	18 in	SEE MAP	13.0%	154
REL-CFS-016-467	18 in	SEE MAP	13.0%	154
REL-CFS-016-468	18 in	SEE MAP	13.0%	154
REL-CFS-016-469	18 in	SEE MAP	13.0%	154
REL-CFS-016-470	18 in	SEE MAP	13.0%	154
REL-CFS-016-471	18 in	SEE MAP	13.0%	154
REL-CFS-016-472	18 in	SEE MAP	13.0%	154
REL-CFS-016-473	18 in	SEE MAP	13.0%	154
REL-CFS-016-474	18 in	SEE MAP	22.7%	88
REL-CFS-016-475	18 in	SEE MAP	22.7%	88
REL-CFS-016-476	18 in	SEE MAP	22.7%	88
REL-CFS-016-477	18 in	SEE MAP	22.7%	88
REL-CFS-016-478	18 in	SEE MAP	22.7%	88
REL-CFS-016-479	18 in	SEE MAP	22.7%	88
REL-CFS-016-480	18 in	SEE MAP	22.7%	88
REL-CFS-016-481	18 in	SEE MAP	22.7%	88
REL-CFS-016-482	18 in	SEE MAP	22.7%	88
REL-CFS-016-483	18 in	SEE MAP	22.7%	88
REL-CFS-016-484	18 in	SEE MAP	22.7%	88
REL-CFS-016-485	18 in	SEE MAP	15.5%	116
REL-CFS-016-486	18 in	SEE MAP	15.5%	116
REL-CFS-016-487	18 in	SEE MAP	15.5%	116
REL-CFS-016-488	18 in	SEE MAP	15.5%	116
REL-CFS-016-489	18 in	SEE MAP	15.5%	116
REL-CFS-016-490	18 in	SEE MAP	15.5%	116
REL-CFS-016-491	18 in	SEE MAP	16.9%	142

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-016-492	18 in	SEE MAP	16.9%	116
REL-CFS-016-493	18 in	SEE MAP	16.9%	116
REL-CFS-016-494	18 in	SEE MAP	16.9%	116
REL-CFS-016-495	18 in	SEE MAP	16.9%	116
REL-CFS-016-496	18 in	SEE MAP	16.9%	116
REL-CFS-016-497	18 in	SEE MAP	16.9%	116
REL-CFS-016-498	18 in	SEE MAP	16.9%	116
REL-CFS-016-499	18 in	SEE MAP	16.9%	116
REL-CFS-016-500	18 in	SEE MAP	16.9%	116
REL-CFS-016-501	18 in	SEE MAP	16.9%	116
REL-CFS-016-502	18 in	SEE MAP	16.9%	116
REL-CFS-016-503	18 in	SEE MAP	16.9%	116
REL-CFS-016-504	18 in	SEE MAP	16.9%	116
REL-CFS-017-001	18 in	SEE MAP	18.5%	92
REL-CFS-017-002	18 in	SEE MAP	18.5%	92
REL-CFS-017-003	18 in	SEE MAP	18.5%	92
REL-CFS-017-004	18 in	SEE MAP	18.5%	92
REL-CFS-017-005	18 in	SEE MAP	18.5%	92
REL-CFS-017-006	18 in	SEE MAP	18.5%	92
REL-CFS-017-007	18 in	SEE MAP	20.8%	115
REL-CFS-017-008	18 in	SEE MAP	20.8%	115
REL-CFS-017-009	18 in	SEE MAP	20.8%	115
REL-CFS-017-010	18 in	SEE MAP	20.8%	115
REL-CFS-017-011	18 in	SEE MAP	20.8%	115
REL-CFS-017-012	18 in	SEE MAP	20.8%	115
REL-CFS-017-013	18 in	SEE MAP	20.8%	115
REL-CFS-017-014	18 in	SEE MAP	20.8%	115
REL-CFS-017-015	12 in	SEE MAP	17.5%	57
REL-CFS-017-016	12 in	SEE MAP	17.5%	57
REL-CFS-017-017	12 in	SEE MAP	17.5%	57
REL-CFS-017-018	12 in	SEE MAP	17.5%	57
REL-CFS-017-019	12 in	SEE MAP	17.5%	57
REL-CFS-017-020	18 in	SEE MAP	21.0%	131
REL-CFS-017-021	18 in	SEE MAP	21.0%	131
REL-CFS-017-022	18 in	SEE MAP	21.0%	131
REL-CFS-017-023	18 in	SEE MAP	21.0%	131
REL-CFS-017-024	18 in	SEE MAP	21.0%	131
REL-CFS-017-025	18 in	SEE MAP	21.0%	131
REL-CFS-017-026	18 in	SEE MAP	21.0%	131
REL-CFS-017-027	18 in	SEE MAP	21.0%	131
REL-CFS-017-028	18 in	SEE MAP	21.0%	131

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-017-029	18 in	SEE MAP	21.0%	131
REL-CFS-017-030	18 in	SEE MAP	21.0%	131
REL-CFS-017-031	18 in	SEE MAP	21.0%	131
REL-CFS-017-032	18 in	SEE MAP	21.0%	131
REL-CFS-017-033	18 in	SEE MAP	21.0%	131
REL-CFS-017-034	18 in	SEE MAP	21.0%	131
REL-CFS-017-035	18 in	SEE MAP	21.0%	131
REL-CFS-017-036	18 in	SEE MAP	22.8%	114
REL-CFS-017-037	18 in	SEE MAP	22.8%	114
REL-CFS-017-038	18 in	SEE MAP	22.8%	114
REL-CFS-017-039	18 in	SEE MAP	22.8%	114
REL-CFS-017-040	18 in	SEE MAP	22.8%	114
REL-CFS-017-041	18 in	SEE MAP	22.8%	114
REL-CFS-017-042	18 in	SEE MAP	22.8%	114
REL-CFS-017-043	18 in	SEE MAP	22.8%	114
REL-CFS-017-044	18 in	SEE MAP	22.8%	114
REL-CFS-017-045	18 in	SEE MAP	22.8%	114
REL-CFS-017-046	18 in	SEE MAP	22.8%	114
REL-CFS-017-047	18 in	SEE MAP	22.8%	114
REL-CFS-017-048	18 in	SEE MAP	22.8%	114
REL-CFS-017-049	18 in	SEE MAP	22.8%	114
REL-CFS-017-050	18 in	SEE MAP	22.8%	114
REL-CFS-017-051	18 in	SEE MAP	22.8%	114
REL-CFS-017-052	18 in	SEE MAP	22.8%	114
REL-CFS-017-053	18 in	SEE MAP	22.8%	114
REL-CFS-017-054	12 in	SEE MAP	9.7%	62
REL-CFS-017-055	12 in	SEE MAP	9.7%	62
REL-CFS-017-056	12 in	SEE MAP	9.7%	62
REL-CFS-017-057	12 in	SEE MAP	9.7%	62
REL-CFS-017-058	12 in	SEE MAP	9.7%	62
REL-CFS-017-059	12 in	SEE MAP	9.7%	62
REL-CFS-017-060	18 in	SEE MAP	10.1%	158
REL-CFS-017-061	18 in	SEE MAP	10.1%	158
REL-CFS-017-062	18 in	SEE MAP	10.1%	158
REL-CFS-017-063	18 in	SEE MAP	10.1%	158
REL-CFS-017-064	18 in	SEE MAP	10.1%	158
REL-CFS-017-065	18 in	SEE MAP	10.1%	158
REL-CFS-017-066	18 in	SEE MAP	10.1%	158
REL-CFS-017-067	18 in	SEE MAP	10.1%	158
REL-CFS-017-068	18 in	SEE MAP	10.1%	158
REL-CFS-017-069	12 in	SEE MAP	9.2%	131

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-017-070	12 in	SEE MAP	9.2%	131
REL-CFS-017-071	12 in	SEE MAP	9.2%	131
REL-CFS-017-072	12 in	SEE MAP	9.2%	131
REL-CFS-017-073	12 in	SEE MAP	9.2%	131
REL-CFS-017-074	12 in	SEE MAP	9.2%	131
REL-CFS-017-075	24 in	SEE MAP	22.5%	124
REL-CFS-017-076	24 in	SEE MAP	22.5%	124
REL-CFS-017-077	12 in	SEE MAP	23.8%	42
REL-CFS-017-078	12 in	SEE MAP	23.8%	42
REL-CFS-017-079	12 in	SEE MAP	23.8%	42
REL-CFS-017-080	12 in	SEE MAP	23.8%	42
REL-CFS-017-081	12 in	SEE MAP	23.8%	42
REL-CFS-017-082	12 in	SEE MAP	12.7%	79
REL-CFS-017-083	12 in	SEE MAP	12.7%	79
REL-CFS-017-084	12 in	SEE MAP	12.7%	79
REL-CFS-017-085	12 in	SEE MAP	12.7%	79
REL-CFS-017-086	12 in	SEE MAP	12.7%	79
REL-CFS-017-087	12 in	SEE MAP	12.7%	79
REL-CFS-017-088	12 in	SEE MAP	12.7%	79
REL-CFS-017-089	12 in	SEE MAP	12.7%	79
REL-CFS-017-090	12 in	SEE MAP	12.7%	79
REL-CFS-017-091	32 in	SEE MAP	29.8%	114
REL-CFS-017-092	32 in	SEE MAP	29.8%	114
REL-CFS-017-093	32 in	SEE MAP	29.8%	114
REL-CFS-017-094	32 in	SEE MAP	29.8%	114
REL-CFS-017-095	32 in	SEE MAP	29.8%	114
REL-CFS-017-096	32 in	SEE MAP	29.8%	114
REL-CFS-017-097	32 in	SEE MAP	29.8%	114
REL-CFS-017-098	32 in	SEE MAP	29.8%	114
REL-CFS-017-099	32 in	SEE MAP	29.8%	114
REL-CFS-017-100	32 in	SEE MAP	29.8%	114
REL-CFS-017-101	32 in	SEE MAP	29.8%	114
REL-CFS-017-102	32 in	SEE MAP	29.8%	114
REL-CFS-017-103	32 in	SEE MAP	29.8%	114
REL-CFS-017-104	32 in	SEE MAP	29.8%	114
REL-CFS-017-105	32 in	SEE MAP	29.8%	114
REL-CFS-017-106	32 in	SEE MAP	29.8%	114
REL-CFS-017-107	32 in	SEE MAP	29.8%	114

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-017-108	32 in	SEE MAP	29.8%	114
REL-CFS-017-109	32 in	SEE MAP	29.8%	114
REL-CFS-017-110	32 in	SEE MAP	29.8%	114
REL-CFS-017-111	32 in	SEE MAP	29.8%	114
REL-CFS-017-112	32 in	SEE MAP	29.8%	114
REL-CFS-017-113	32 in	SEE MAP	29.8%	114
REL-CFS-017-114	32 in	SEE MAP	29.8%	114
REL-CFS-017-115	32 in	SEE MAP	29.8%	114
REL-CFS-017-116	32 in	SEE MAP	29.8%	114
REL-CFS-017-117	32 in	SEE MAP	29.8%	114
REL-CFS-017-118	18 in	SEE MAP	19.0%	105
REL-CFS-017-119	18 in	SEE MAP	19.0%	105
REL-CFS-017-120	18 in	SEE MAP	19.0%	105
REL-CFS-017-121	18 in	SEE MAP	19.0%	105
REL-CFS-017-122	18 in	SEE MAP	19.0%	105
REL-CFS-017-123	18 in	SEE MAP	19.0%	105
REL-CFS-017-124	18 in	SEE MAP	19.0%	105
REL-CFS-017-125	18 in	SEE MAP	19.0%	105
REL-CFS-017-126	18 in	SEE MAP	19.0%	105
REL-CFS-017-127	18 in	SEE MAP	19.0%	105
REL-CFS-017-128	18 in	SEE MAP	19.0%	105
REL-CFS-017-129	18 in	SEE MAP	19.0%	105
REL-CFS-017-130	18 in	SEE MAP	19.0%	105
REL-CFS-017-131	12 in	SEE MAP	3.3%	121
REL-CFS-017-132	12 in	SEE MAP	3.3%	121
REL-CFS-017-133	12 in	SEE MAP	3.3%	121
REL-CFS-017-134	12 in	SEE MAP	3.3%	121
REL-CFS-017-135	12 in	SEE MAP	5.7%	106
REL-CFS-017-136	12 in	SEE MAP	5.7%	106
REL-CFS-017-137	12 in	SEE MAP	5.7%	106
REL-CFS-017-138	12 in	SEE MAP	5.7%	106
REL-CFS-017-139	12 in	SEE MAP	5.7%	106
REL-CFS-017-140	12 in	SEE MAP	9.9%	91
REL-CFS-017-141	12 in	SEE MAP	9.9%	91
REL-CFS-017-142	12 in	SEE MAP	9.9%	91
REL-CFS-017-143	12 in	SEE MAP	9.9%	91
REL-CFS-017-144	12 in	SEE MAP	9.9%	91
REL-CFS-017-145	12 in	SEE MAP	9.9%	91

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-017-146	12 in	SEE MAP	9.9%	91
REL-CFS-017-147	12 in	SEE MAP	9.9%	91
REL-CFS-017-148	12 in	SEE MAP	9.9%	91
REL-CFS-017-149	12 in	SEE MAP	9.9%	91
REL-CFS-017-150	12 in	SEE MAP	9.9%	91
REL-CFS-017-151	12 in	SEE MAP	9.9%	91
REL-CFS-017-152	12 in	SEE MAP	9.9%	91
REL-CFS-017-153	18 in	SEE MAP	20.2%	89
REL-CFS-017-154	18 in	SEE MAP	20.2%	89
REL-CFS-017-155	18 in	SEE MAP	22.3%	67
REL-CFS-017-156	18 in	SEE MAP	22.3%	67
REL-CFS-017-157	18 in	SEE MAP	22.3%	67
REL-CFS-017-158	18 in	SEE MAP	22.3%	67
REL-CFS-017-159	18 in	SEE MAP	22.3%	67
REL-CFS-017-160	18 in	SEE MAP	22.3%	67
REL-CFS-017-161	18 in	SEE MAP	22.3%	67
REL-CFS-017-162	18 in	SEE MAP	22.3%	67
REL-CFS-017-163	18 in	SEE MAP	22.3%	67
REL-CFS-017-164	18 in	SEE MAP	22.3%	67
REL-CFS-017-165	12 in	SEE MAP	5.3%	75
REL-CFS-017-166	12 in	SEE MAP	5.3%	75
REL-CFS-017-167	12 in	SEE MAP	5.3%	75
REL-CFS-017-168	12 in	SEE MAP	5.3%	75
REL-CFS-017-169	18 in	SEE MAP	21.3%	117
REL-CFS-017-170	18 in	SEE MAP	21.3%	117
REL-CFS-017-171	18 in	SEE MAP	21.3%	117
REL-CFS-017-172	18 in	SEE MAP	21.3%	117
REL-CFS-017-173	18 in	SEE MAP	21.3%	117
REL-CFS-017-174	18 in	SEE MAP	21.3%	117
REL-CFS-017-175	18 in	SEE MAP	21.3%	117
REL-CFS-017-176	18 in	SEE MAP	21.3%	117
REL-CFS-017-177	18 in	SEE MAP	21.3%	117
REL-CFS-017-178	18 in	SEE MAP	21.3%	117
REL-CFS-017-179	18 in	SEE MAP	21.3%	117
REL-CFS-017-180	18 in	SEE MAP	21.3%	117
REL-CFS-017-181	18 in	SEE MAP	21.3%	117
REL-CFS-017-182	18 in	SEE MAP	13.5%	163
REL-CFS-017-183	18 in	SEE MAP	13.5%	163
REL-CFS-017-184	18 in	SEE MAP	13.5%	163
REL-CFS-017-185	18 in	SEE MAP	13.5%	163
REL-CFS-017-186	18 in	SEE MAP	13.5%	163

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-017-187	18 in	SEE MAP	13.5%	163
REL-CFS-017-188	18 in	SEE MAP	13.5%	163
REL-CFS-017-189	18 in	SEE MAP	13.5%	163
REL-CFS-017-190	18 in	SEE MAP	13.5%	163
REL-CFS-017-191	18 in	SEE MAP	13.5%	163
REL-CFS-017-192	18 in	SEE MAP	12.4%	145
REL-CFS-017-193	18 in	SEE MAP	12.4%	145
REL-CFS-017-194	18 in	SEE MAP	12.4%	145
REL-CFS-017-195	18 in	SEE MAP	12.4%	145
REL-CFS-017-196	18 in	SEE MAP	12.4%	145
REL-CFS-017-197	18 in	SEE MAP	12.4%	145
REL-CFS-017-198	18 in	SEE MAP	12.4%	145
REL-CFS-017-199	18 in	SEE MAP	12.4%	145
REL-CFS-017-200	18 in	SEE MAP	12.4%	145
REL-CFS-017-201	18 in	SEE MAP	12.4%	145
REL-CFS-017-202	12 in	SEE MAP	13.9%	36
REL-CFS-017-203	18 in	SEE MAP	13.2%	152
REL-CFS-017-204	18 in	SEE MAP	13.2%	152
REL-CFS-017-205	18 in	SEE MAP	13.2%	152
REL-CFS-017-206	18 in	SEE MAP	13.2%	152
REL-CFS-017-207	18 in	SEE MAP	13.2%	152
REL-CFS-017-208	18 in	SEE MAP	13.2%	152
REL-CFS-017-209	18 in	SEE MAP	13.2%	152
REL-CFS-017-210	18 in	SEE MAP	13.2%	152
REL-CFS-017-211	18 in	SEE MAP	13.2%	152
REL-CFS-017-212	18 in	SEE MAP	13.2%	152
REL-CFS-017-213	18 in	SEE MAP	13.2%	152
REL-CFS-017-214	18 in	SEE MAP	13.2%	152
REL-CFS-017-215	18 in	SEE MAP	13.2%	152
REL-CFS-017-216	18 in	SEE MAP	13.2%	152
REL-CFS-017-217	18 in	SEE MAP	13.2%	152
REL-CFS-017-218	18 in	SEE MAP	13.2%	152
REL-CFS-017-219	18 in	SEE MAP	13.2%	152
REL-CFS-017-220	18 in	SEE MAP	13.2%	152
REL-CFS-017-221	18 in	SEE MAP	13.2%	152
REL-CFS-017-222	18 in	SEE MAP	13.2%	152
REL-CFS-017-223	18 in	SEE MAP	13.2%	152
REL-CFS-017-224	18 in	SEE MAP	13.2%	152
REL-CFS-017-225	18 in	SEE MAP	13.2%	152
REL-CFS-017-226	18 in	SEE MAP	13.2%	152
REL-CFS-017-227	18 in	SEE MAP	13.2%	152
REL-CFS-017-228	18 in	SEE MAP	13.2%	152

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-017-229	18 in	SEE MAP	13.2%	152
REL-CFS-017-230	18 in	SEE MAP	13.2%	152
REL-CFS-017-231	18 in	SEE MAP	13.2%	152
REL-CFS-017-232	18 in	SEE MAP	13.2%	152
REL-CFS-018-001	18 in	SEE MAP	14.5%	138
REL-CFS-018-002	18 in	SEE MAP	14.5%	138
REL-CFS-018-003	18 in	SEE MAP	14.5%	138
REL-CFS-018-004	18 in	SEE MAP	14.5%	138
REL-CFS-018-005	18 in	SEE MAP	14.5%	138
REL-CFS-018-006	18 in	SEE MAP	14.5%	138
REL-CFS-018-007	18 in	SEE MAP	14.5%	138
REL-CFS-018-008	18 in	SEE MAP	14.5%	138
REL-CFS-018-009	18 in	SEE MAP	14.5%	138
REL-CFS-018-010	18 in	SEE MAP	14.5%	138
REL-CFS-018-011	18 in	SEE MAP	14.5%	138
REL-CFS-018-012	18 in	SEE MAP	15.9%	138
REL-CFS-018-013	18 in	SEE MAP	15.9%	138
REL-CFS-018-014	18 in	SEE MAP	15.9%	138
REL-CFS-018-015	18 in	SEE MAP	15.9%	138
REL-CFS-018-016	18 in	SEE MAP	15.9%	138
REL-CFS-018-017	18 in	SEE MAP	15.9%	138
REL-CFS-018-018	18 in	SEE MAP	15.9%	138
REL-CFS-018-019	18 in	SEE MAP	15.9%	138
REL-CFS-018-020	18 in	SEE MAP	15.9%	138
REL-CFS-018-021	18 in	SEE MAP	15.9%	138
REL-CFS-018-022	12 in	SEE MAP	2.8%	215
REL-CFS-018-023	12 in	SEE MAP	2.8%	215
REL-CFS-018-024	12 in	SEE MAP	2.8%	215
REL-CFS-018-025	12 in	SEE MAP	2.8%	215
REL-CFS-018-026	12 in	SEE MAP	2.8%	215
REL-CFS-018-027	12 in	SEE MAP	2.8%	215
REL-CFS-018-028	32 in	SEE MAP	31.7%	101
REL-CFS-018-029	32 in	SEE MAP	31.7%	101
REL-CFS-018-030	32 in	SEE MAP	31.7%	101
REL-CFS-018-031	32 in	SEE MAP	31.7%	101
REL-CFS-018-032	32 in	SEE MAP	31.7%	101
REL-CFS-018-033	32 in	SEE MAP	31.7%	101
REL-CFS-018-034	32 in	SEE MAP	31.7%	101
REL-CFS-018-035	32 in	SEE MAP	31.7%	101
REL-CFS-018-036	32 in	SEE MAP	31.7%	101
REL-CFS-018-037	32 in	SEE MAP	31.7%	101

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-018-038	32 in	SEE MAP	31.7%	101
REL-CFS-018-039	32 in	SEE MAP	31.7%	101
REL-CFS-018-040	32 in	SEE MAP	31.7%	101
REL-CFS-018-041	32 in	SEE MAP	31.7%	101
REL-CFS-018-042	32 in	SEE MAP	31.7%	101
REL-CFS-018-043	32 in	SEE MAP	31.7%	101
REL-CFS-018-044	32 in	SEE MAP	31.7%	101
REL-CFS-018-045	32 in	SEE MAP	31.7%	101
REL-CFS-018-046	32 in	SEE MAP	31.7%	101
REL-CFS-018-047	32 in	SEE MAP	31.7%	101
REL-CFS-018-048	32 in	SEE MAP	31.7%	101
REL-CFS-018-049	32 in	SEE MAP	31.7%	101
REL-CFS-018-050	32 in	SEE MAP	31.7%	101
REL-CFS-018-051	32 in	SEE MAP	31.7%	101
REL-CFS-018-052	32 in	SEE MAP	31.7%	101
REL-CFS-018-053	32 in	SEE MAP	31.7%	101
REL-CFS-018-054	32 in	SEE MAP	31.7%	101
REL-CFS-018-055	32 in	SEE MAP	31.7%	101
REL-CFS-018-056	32 in	SEE MAP	31.7%	101
REL-CFS-018-057	32 in	SEE MAP	31.7%	101
REL-CFS-018-058	32 in	SEE MAP	31.7%	101
REL-CFS-018-059	32 in	SEE MAP	31.7%	101
REL-CFS-018-060	32 in	SEE MAP	31.7%	101
REL-CFS-018-061	32 in	SEE MAP	31.7%	101
REL-CFS-018-062	32 in	SEE MAP	31.7%	101
REL-CFS-018-063	32 in	SEE MAP	31.7%	101
REL-CFS-018-064	32 in	SEE MAP	31.7%	101
REL-CFS-018-065	32 in	SEE MAP	31.7%	101
REL-CFS-018-066	32 in	SEE MAP	31.7%	101
REL-CFS-018-067	32 in	SEE MAP	31.7%	101
REL-CFS-018-068	32 in	SEE MAP	31.7%	101
REL-CFS-018-069	32 in	SEE MAP	31.7%	101
REL-CFS-018-070	32 in	SEE MAP	31.7%	101
REL-CFS-018-071	32 in	SEE MAP	31.7%	101
REL-CFS-018-072	32 in	SEE MAP	31.7%	101
REL-CFS-018-073	32 in	SEE MAP	31.7%	101
REL-CFS-018-074	12 in	SEE MAP	12.5%	48
REL-CFS-018-075	12 in	SEE MAP	12.5%	48
REL-CFS-018-076	12 in	SEE MAP	12.5%	48
REL-CFS-018-077	12 in	SEE MAP	12.5%	48
REL-CFS-018-078	12 in	SEE MAP	12.5%	48

REL-CFS-018-079	12 in	SEE MAP	12.5%	48
REL-CFS-018-080	12 in	SEE MAP	12.5%	48
REL-CFS-018-081	12 in	SEE MAP	12.5%	48
REL-CFS-018-082	12 in	SEE MAP	12.5%	48
REL-CFS-018-083	12 in	SEE MAP	7.4%	81
REL-CFS-018-084	12 in	SEE MAP	7.4%	81
REL-CFS-018-085	12 in	SEE MAP	7.4%	81
REL-CFS-018-086	12 in	SEE MAP	7.4%	81
REL-CFS-018-087	12 in	SEE MAP	7.4%	81
REL-CFS-018-088	12 in	SEE MAP	7.4%	81
REL-CFS-018-089	12 in	SEE MAP	7.4%	81
REL-CFS-018-090	18 in	SEE MAP	16.8%	107
REL-CFS-018-091	18 in	SEE MAP	16.8%	107
REL-CFS-018-092	18 in	SEE MAP	16.8%	107
REL-CFS-018-093	18 in	SEE MAP	16.8%	107
REL-CFS-018-094	18 in	SEE MAP	16.8%	107
REL-CFS-018-095	18 in	SEE MAP	16.8%	107
REL-CFS-018-096	18 in	SEE MAP	16.8%	107
REL-CFS-018-097	18 in	SEE MAP	16.8%	107
REL-CFS-018-098	18 in	SEE MAP	16.8%	107
REL-CFS-018-099	12 in	SEE MAP	9.4%	85
REL-CFS-018-100	12 in	SEE MAP	9.4%	85
REL-CFS-018-101	12 in	SEE MAP	9.4%	85
REL-CFS-018-102	12 in	SEE MAP	9.4%	85
REL-CFS-018-103	12 in	SEE MAP	9.4%	85
REL-CFS-018-104	12 in	SEE MAP	15.4%	85
REL-CFS-018-105	12 in	SEE MAP	15.4%	85
REL-CFS-018-106	12 in	SEE MAP	15.4%	85
REL-CFS-018-107	12 in	SEE MAP	15.4%	85
REL-CFS-018-108	12 in	SEE MAP	15.4%	85
REL-CFS-018-109	12 in	SEE MAP	15.4%	85
REL-CFS-018-110	12 in	SEE MAP	15.4%	85
REL-CFS-018-111	12 in	SEE MAP	15.4%	85
REL-CFS-018-112	12 in	SEE MAP	15.4%	85
REL-CFS-018-113	12 in	SEE MAP	15.4%	85
REL-CFS-018-114	12 in	SEE MAP	15.4%	85
REL-CFS-018-115	12 in	SEE MAP	15.4%	85
REL-CFS-018-116	12 in	SEE MAP	15.4%	85
REL-CFS-018-117	12 in	SEE MAP	15.4%	85
REL-CFS-018-118	12 in	SEE MAP	15.4%	85
REL-CFS-018-119	12 in	SEE MAP	15.4%	85
REL-CFS-018-120	18 in	SEE MAP	27.6%	87

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-018-121	18 in	SEE MAP	27.6%	87
REL-CFS-018-122	18 in	SEE MAP	27.6%	87
REL-CFS-018-123	18 in	SEE MAP	27.6%	87
REL-CFS-018-124	18 in	SEE MAP	27.6%	87
REL-CFS-018-125	18 in	SEE MAP	27.6%	87
REL-CFS-018-126	18 in	SEE MAP	27.6%	87
REL-CFS-018-127	18 in	SEE MAP	27.6%	87
REL-CFS-018-128	18 in	SEE MAP	27.6%	87
REL-CFS-018-129	18 in	SEE MAP	27.6%	87
REL-CFS-018-130	18 in	SEE MAP	27.6%	87
REL-CFS-018-131	18 in	SEE MAP	27.6%	87
REL-CFS-018-132	24 in	SEE MAP	29.9%	87
REL-CFS-018-133	24 in	SEE MAP	29.9%	87
REL-CFS-018-134	24 in	SEE MAP	29.9%	87
REL-CFS-018-135	24 in	SEE MAP	29.9%	87
REL-CFS-018-136	24 in	SEE MAP	29.9%	87
REL-CFS-018-137	24 in	SEE MAP	29.9%	87
REL-CFS-018-138	24 in	SEE MAP	29.9%	87
REL-CFS-018-139	24 in	SEE MAP	29.9%	87
REL-CFS-018-140	24 in	SEE MAP	29.9%	87
REL-CFS-018-141	24 in	SEE MAP	29.9%	87
REL-CFS-018-142	24 in	SEE MAP	29.9%	87
REL-CFS-018-143	24 in	SEE MAP	29.9%	87
REL-CFS-018-144	24 in	SEE MAP	29.9%	87
REL-CFS-018-145	24 in	SEE MAP	29.9%	87
REL-CFS-018-146	24 in	SEE MAP	29.9%	87
REL-CFS-018-147	24 in	SEE MAP	29.9%	87
REL-CFS-018-148	24 in	SEE MAP	29.9%	87
REL-CFS-018-149	24 in	SEE MAP	29.9%	87
REL-CFS-018-150	24 in	SEE MAP	29.9%	87
REL-CFS-018-151	24 in	SEE MAP	29.9%	87
REL-CFS-018-152	24 in	SEE MAP	29.9%	87
REL-CFS-018-153	24 in	SEE MAP	29.9%	87
REL-CFS-018-154	24 in	SEE MAP	29.9%	87
REL-CFS-018-155	18 in	SEE MAP	24.1%	58
REL-CFS-018-156	18 in	SEE MAP	24.1%	58
REL-CFS-018-157	18 in	SEE MAP	24.1%	58
REL-CFS-018-158	18 in	SEE MAP	24.1%	58
REL-CFS-018-159	18 in	SEE MAP	24.1%	58
REL-CFS-018-160	18 in	SEE MAP	24.1%	58
REL-CFS-018-161	18 in	SEE MAP	24.1%	58
REL-CFS-018-162	12 in	SEE MAP	5.7%	35
REL-CFS-018-163	12 in	SEE MAP	5.7%	35
REL-CFS-018-164	12 in	SEE MAP	5.7%	35
REL-CFS-018-165	12 in	SEE MAP	5.7%	35
REL-CFS-018-166	12 in	SEE MAP	5.7%	35

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-018-167	12 in	SEE MAP	5.7%	35
REL-CFS-018-168	12 in	SEE MAP	5.7%	35
REL-CFS-018-169	12 in	SEE MAP	5.7%	35
REL-CFS-018-170	18 in	SEE MAP	12.0%	182
REL-CFS-018-171	18 in	SEE MAP	12.0%	182
REL-CFS-018-172	18 in	SEE MAP	12.0%	182
REL-CFS-018-173	18 in	SEE MAP	12.0%	182
REL-CFS-018-174	18 in	SEE MAP	12.0%	182
REL-CFS-018-175	18 in	SEE MAP	12.0%	182
REL-CFS-018-176	18 in	SEE MAP	12.0%	182
REL-CFS-018-177	18 in	SEE MAP	12.0%	182
REL-CFS-018-178	18 in	SEE MAP	12.0%	182
REL-CFS-018-179	18 in	SEE MAP	12.0%	182
REL-CFS-018-180	18 in	SEE MAP	12.0%	182
REL-CFS-018-181	18 in	SEE MAP	12.0%	182
REL-CFS-018-182	18 in	SEE MAP	12.0%	182
REL-CFS-018-183	18 in	SEE MAP	12.0%	182
REL-CFS-018-184	18 in	SEE MAP	12.0%	182
REL-CFS-018-185	18 in	SEE MAP	12.0%	182
REL-CFS-018-186	18 in	SEE MAP	12.0%	182
REL-CFS-018-187	18 in	SEE MAP	12.0%	182
REL-CFS-018-188	24 in	SEE MAP	38.8%	67
REL-CFS-018-189	24 in	SEE MAP	38.8%	67
REL-CFS-018-190	24 in	SEE MAP	38.8%	67
REL-CFS-018-191	24 in	SEE MAP	38.8%	67
REL-CFS-018-192	24 in	SEE MAP	38.8%	67
REL-CFS-018-193	24 in	SEE MAP	38.8%	67
REL-CFS-018-194	24 in	SEE MAP	38.8%	67
REL-CFS-018-195	24 in	SEE MAP	38.8%	67
REL-CFS-018-196	24 in	SEE MAP	43.5%	46
REL-CFS-018-197	24 in	SEE MAP	43.5%	46
REL-CFS-018-198	24 in	SEE MAP	43.5%	46
REL-CFS-018-199	24 in	SEE MAP	43.5%	46
REL-CFS-018-200	24 in	SEE MAP	43.5%	46
REL-CFS-018-201	24 in	SEE MAP	43.5%	46
REL-CFS-018-202	24 in	SEE MAP	43.5%	46
REL-CFS-018-203	24 in	SEE MAP	43.5%	46
REL-CFS-018-204	24 in	SEE MAP	43.5%	46
REL-CFS-018-205	24 in	SEE MAP	43.5%	46
REL-CFS-018-206	24 in	SEE MAP	43.5%	46
REL-CFS-018-207	24 in	SEE MAP	43.5%	46
REL-CFS-018-208	24 in	SEE MAP	43.5%	46
REL-CFS-018-209	24 in	SEE MAP	43.5%	46
REL-CFS-018-210	24 in	SEE MAP	43.5%	46
REL-CFS-018-211	24 in	SEE MAP	43.5%	46

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-018-212	24 in	SEE MAP	43.5%	46
REL-CFS-018-213	24 in	SEE MAP	43.5%	46
REL-CFS-018-214	24 in	SEE MAP	43.5%	46
REL-CFS-018-215	12 in	SEE MAP	22.2%	54
REL-CFS-018-216	12 in	SEE MAP	22.2%	54
REL-CFS-018-217	12 in	SEE MAP	22.2%	54
REL-CFS-018-218	12 in	SEE MAP	22.2%	54
REL-CFS-018-219	12 in	SEE MAP	22.2%	54
REL-CFS-018-220	12 in	SEE MAP	22.2%	54
REL-CFS-018-221	18 in	SEE MAP	35.6%	45
REL-CFS-018-222	18 in	SEE MAP	35.6%	45
REL-CFS-018-223	18 in	SEE MAP	35.6%	45
REL-CFS-018-224	18 in	SEE MAP	35.6%	45
REL-CFS-018-225	18 in	SEE MAP	35.6%	45
REL-CFS-018-226	18 in	SEE MAP	35.6%	45
REL-CFS-018-227	18 in	SEE MAP	35.6%	45
REL-CFS-018-228	18 in	SEE MAP	35.6%	45
REL-CFS-018-229	18 in	SEE MAP	35.6%	45
REL-CFS-018-230	18 in	SEE MAP	35.6%	45
REL-CFS-018-231	18 in	SEE MAP	35.6%	45
REL-CFS-018-232	18 in	SEE MAP	35.6%	45
REL-CFS-018-233	18 in	SEE MAP	35.6%	45
REL-CFS-018-234	18 in	SEE MAP	35.6%	45
REL-CFS-018-235	18 in	SEE MAP	35.6%	45
REL-CFS-018-236	18 in	SEE MAP	39.5%	43
REL-CFS-018-237	18 in	SEE MAP	39.5%	43
REL-CFS-018-238	18 in	SEE MAP	39.5%	43
REL-CFS-018-239	18 in	SEE MAP	39.5%	43
REL-CFS-018-240	18 in	SEE MAP	39.5%	43
REL-CFS-018-241	18 in	SEE MAP	39.5%	43
REL-CFS-018-242	18 in	SEE MAP	39.5%	43
REL-CFS-018-243	18 in	SEE MAP	39.5%	43
REL-CFS-018-244	18 in	SEE MAP	39.5%	43
REL-CFS-018-245	18 in	SEE MAP	33.3%	42
REL-CFS-018-246	18 in	SEE MAP	33.3%	42
REL-CFS-018-247	18 in	SEE MAP	33.3%	42
REL-CFS-018-248	18 in	SEE MAP	33.3%	42
REL-CFS-018-249	18 in	SEE MAP	33.3%	42
REL-CFS-018-250	18 in	SEE MAP	33.3%	42
REL-CFS-018-251	18 in	SEE MAP	33.3%	42
REL-CFS-018-252	18 in	SEE MAP	33.3%	42
REL-CFS-018-253	18 in	SEE MAP	33.3%	42
REL-CFS-018-254	18 in	SEE MAP	33.3%	42

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-018-255	18 in	SEE MAP	33.3%	42
REL-CFS-018-256	18 in	SEE MAP	33.3%	42
REL-CFS-018-257	12 in	SEE MAP	26.4%	53
REL-CFS-018-258	12 in	SEE MAP	26.4%	53
REL-CFS-018-259	12 in	SEE MAP	26.4%	53
REL-CFS-018-260	12 in	SEE MAP	26.4%	53
REL-CFS-018-261	12 in	SEE MAP	26.4%	53
REL-CFS-018-262	12 in	SEE MAP	26.4%	53
REL-CFS-018-263	12 in	SEE MAP	26.4%	53
REL-CFS-018-264	12 in	SEE MAP	26.4%	53
REL-CFS-018-265	12 in	SEE MAP	26.4%	53
REL-CFS-018-266	12 in	SEE MAP	26.4%	53
REL-CFS-018-267	12 in	SEE MAP	26.4%	53
REL-CFS-018-268	12 in	SEE MAP	26.4%	53
REL-CFS-018-269	12 in	SEE MAP	26.4%	53
REL-CFS-018-270	12 in	SEE MAP	28.6%	42
REL-CFS-018-271	12 in	SEE MAP	28.6%	42
REL-CFS-018-272	12 in	SEE MAP	28.6%	42
REL-CFS-018-273	12 in	SEE MAP	28.6%	42
REL-CFS-018-274	12 in	SEE MAP	28.6%	42
REL-CFS-018-275	12 in	SEE MAP	28.6%	42
REL-CFS-018-276	12 in	SEE MAP	28.6%	42
REL-CFS-018-277	12 in	SEE MAP	28.6%	42
REL-CFS-018-278	12 in	SEE MAP	28.6%	42
REL-CFS-018-279	12 in	SEE MAP	28.6%	42
REL-CFS-018-280	12 in	SEE MAP	28.6%	42
REL-CFS-018-281	18 in	SEE MAP	35.0%	40
REL-CFS-018-282	18 in	SEE MAP	35.0%	40
REL-CFS-018-283	18 in	SEE MAP	35.0%	40
REL-CFS-018-284	18 in	SEE MAP	35.0%	40
REL-CFS-018-285	18 in	SEE MAP	35.0%	40
REL-CFS-018-286	18 in	SEE MAP	35.0%	40
REL-CFS-018-287	18 in	SEE MAP	35.0%	40
REL-CFS-018-288	18 in	SEE MAP	35.0%	40
REL-CFS-018-289	18 in	SEE MAP	35.0%	40
REL-CFS-018-290	18 in	SEE MAP	35.0%	40
REL-CFS-018-291	18 in	SEE MAP	35.0%	40
REL-CFS-018-292	18 in	SEE MAP	35.0%	40
REL-CFS-018-293	18 in	SEE MAP	35.0%	40
REL-CFS-018-294	18 in	SEE MAP	35.0%	40
REL-CFS-018-295	18 in	SEE MAP	35.0%	40

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-018-296	24 in	SEE MAP	41.5%	53
REL-CFS-018-297	24 in	SEE MAP	41.5%	53
REL-CFS-018-298	24 in	SEE MAP	41.5%	53
REL-CFS-018-299	24 in	SEE MAP	41.5%	53
REL-CFS-018-300	24 in	SEE MAP	41.5%	53
REL-CFS-018-301	24 in	SEE MAP	41.5%	53
REL-CFS-018-302	24 in	SEE MAP	41.5%	53
REL-CFS-018-303	24 in	SEE MAP	41.5%	53
REL-CFS-018-304	24 in	SEE MAP	41.5%	53
REL-CFS-018-305	24 in	SEE MAP	41.5%	53
REL-CFS-018-306	24 in	SEE MAP	41.5%	53
REL-CFS-018-307	24 in	SEE MAP	41.5%	53
REL-CFS-018-308	24 in	SEE MAP	41.5%	53
REL-CFS-018-309	24 in	SEE MAP	41.5%	53
REL-CFS-018-310	24 in	SEE MAP	41.5%	53
REL-CFS-018-311	24 in	SEE MAP	41.5%	53
REL-CFS-018-312	24 in	SEE MAP	41.5%	53
REL-CFS-018-313	24 in	SEE MAP	41.5%	53
REL-CFS-018-314	24 in	SEE MAP	41.5%	53
REL-CFS-018-315	18 in	SEE MAP	39.0%	41
REL-CFS-018-316	18 in	SEE MAP	39.0%	41
REL-CFS-018-317	18 in	SEE MAP	39.0%	41
REL-CFS-018-318	18 in	SEE MAP	39.0%	41
REL-CFS-018-319	18 in	SEE MAP	39.0%	41
REL-CFS-018-320	18 in	SEE MAP	39.0%	41
REL-CFS-018-321	18 in	SEE MAP	39.0%	41
REL-CFS-018-322	18 in	SEE MAP	39.0%	41
REL-CFS-018-323	18 in	SEE MAP	17.4%	92
REL-CFS-018-324	18 in	SEE MAP	17.4%	92
REL-CFS-018-325	18 in	SEE MAP	17.4%	92
REL-CFS-018-326	18 in	SEE MAP	17.4%	92
REL-CFS-018-327	18 in	SEE MAP	17.4%	92
REL-CFS-018-328	18 in	SEE MAP	17.4%	92
REL-CFS-018-329	18 in	SEE MAP	17.4%	92
REL-CFS-018-330	18 in	SEE MAP	17.4%	92
REL-CFS-018-331	18 in	SEE MAP	17.4%	92
REL-CFS-018-332	18 in	SEE MAP	17.8%	101
REL-CFS-018-333	18 in	SEE MAP	17.8%	101
REL-CFS-018-334	18 in	SEE MAP	17.8%	101
REL-CFS-018-335	18 in	SEE MAP	17.8%	101
REL-CFS-018-336	18 in	SEE MAP	15.7%	153
REL-CFS-018-337	18 in	SEE MAP	15.7%	153

REL-CFS-018-338	18 in	SEE MAP	15.7%	153
REL-CFS-018-339	18 in	SEE MAP	15.7%	153
REL-CFS-018-340	18 in	SEE MAP	15.7%	153
REL-CFS-018-341	18 in	SEE MAP	15.7%	153
REL-CFS-018-342	18 in	SEE MAP	15.7%	153
REL-CFS-018-343	18 in	SEE MAP	15.7%	153
REL-CFS-018-344	18 in	SEE MAP	7.8%	178
REL-CFS-018-345	18 in	SEE MAP	7.8%	178
REL-CFS-018-346	18 in	SEE MAP	7.8%	178
REL-CFS-018-347	18 in	SEE MAP	7.8%	178
REL-CFS-018-348	18 in	SEE MAP	7.8%	178
REL-CFS-018-349	18 in	SEE MAP	7.8%	178
REL-CFS-018-350	18 in	SEE MAP	7.8%	178
REL-CFS-018-351	18 in	SEE MAP	7.8%	178
REL-CFS-018-352	18 in	SEE MAP	7.8%	178
REL-CFS-018-353	18 in	SEE MAP	7.8%	178
REL-CFS-018-354	18 in	SEE MAP	7.8%	178
REL-CFS-018-355	18 in	SEE MAP	7.8%	178
REL-CFS-018-356	18 in	SEE MAP	7.8%	178
REL-CFS-018-357	18 in	SEE MAP	7.8%	178
REL-CFS-018-358	18 in	SEE MAP	7.8%	178
REL-CFS-018-359	18 in	SEE MAP	7.8%	178
REL-CFS-018-360	18 in	SEE MAP	7.8%	178
REL-CFS-018-361	32 in	SEE MAP	18.4%	275
REL-CFS-018-362	32 in	SEE MAP	18.4%	275
REL-CFS-018-363	32 in	SEE MAP	18.4%	275
REL-CFS-018-364	32 in	SEE MAP	18.4%	275
REL-CFS-018-365	32 in	SEE MAP	18.4%	275
REL-CFS-018-366	32 in	SEE MAP	18.4%	275
REL-CFS-018-367	32 in	SEE MAP	18.4%	275
REL-CFS-018-368	32 in	SEE MAP	18.4%	275
REL-CFS-018-369	32 in	SEE MAP	18.4%	275
REL-CFS-018-370	32 in	SEE MAP	18.4%	275
REL-CFS-018-371	32 in	SEE MAP	18.4%	275
REL-CFS-018-372	32 in	SEE MAP	18.4%	275
REL-CFS-018-373	32 in	SEE MAP	18.4%	275
REL-CFS-018-374	32 in	SEE MAP	18.4%	275
REL-CFS-018-375	32 in	SEE MAP	18.4%	275
REL-CFS-018-376	32 in	SEE MAP	18.4%	275
REL-CFS-018-377	24 in	SEE MAP	20.1%	189
REL-CFS-018-378	24 in	SEE MAP	20.1%	189
REL-CFS-018-379	24 in	SEE MAP	20.1%	189
REL-CFS-018-380	24 in	SEE MAP	20.1%	189
REL-CFS-018-381	24 in	SEE MAP	20.1%	189
REL-CFS-018-382	24 in	SEE MAP	20.1%	189
REL-CFS-018-383	24 in	SEE MAP	20.1%	189
REL-CFS-018-384	24 in	SEE MAP	20.1%	189
REL-CFS-018-385	24 in	SEE MAP	20.1%	189

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-018-386	24 in	SEE MAP	20.1%	189
REL-CFS-018-387	12 in	SEE MAP	15.6%	77
REL-CFS-018-388	12 in	SEE MAP	15.6%	77
REL-CFS-018-389	12 in	SEE MAP	15.6%	77
REL-CFS-018-390	12 in	SEE MAP	15.6%	77
REL-CFS-018-391	12 in	SEE MAP	15.6%	77
REL-CFS-018-392	12 in	SEE MAP	15.6%	77
REL-CFS-018-393	18 in	SEE MAP	17.0%	94
REL-CFS-018-394	18 in	SEE MAP	17.0%	94
REL-CFS-018-395	18 in	SEE MAP	17.0%	94
REL-CFS-018-396	18 in	SEE MAP	17.0%	94
REL-CFS-018-397	18 in	SEE MAP	17.0%	94
REL-CFS-018-398	18 in	SEE MAP	17.0%	94
REL-CFS-018-399	18 in	SEE MAP	17.0%	94
REL-CFS-018-400	18 in	SEE MAP	17.0%	94
REL-CFS-018-401	18 in	SEE MAP	17.0%	94
REL-CFS-018-402	18 in	SEE MAP	17.0%	94
REL-CFS-018-403	12 in	SEE MAP	6.2%	161
REL-CFS-018-404	12 in	SEE MAP	6.2%	161
REL-CFS-018-405	12 in	SEE MAP	6.2%	161
REL-CFS-018-406	12 in	SEE MAP	6.2%	161
REL-CFS-018-407	12 in	SEE MAP	6.2%	161
REL-CFS-018-408	12 in	SEE MAP	6.2%	161
REL-CFS-018-409	12 in	SEE MAP	6.2%	161
REL-CFS-018-410	12 in	SEE MAP	6.2%	161
REL-CFS-018-411	12 in	SEE MAP	6.2%	161
REL-CFS-018-412	18 in	SEE MAP	12.0%	158
REL-CFS-018-413	18 in	SEE MAP	12.0%	158
REL-CFS-018-414	18 in	SEE MAP	12.0%	158
REL-CFS-018-415	18 in	SEE MAP	12.0%	158
REL-CFS-018-416	18 in	SEE MAP	12.0%	158
REL-CFS-018-417	18 in	SEE MAP	12.0%	158
REL-CFS-018-418	18 in	SEE MAP	12.0%	158
REL-CFS-018-419	18 in	SEE MAP	12.0%	158
REL-CFS-018-420	18 in	SEE MAP	12.0%	158
REL-CFS-018-421	18 in	SEE MAP	12.0%	158
REL-CFS-018-422	18 in	SEE MAP	12.0%	158
REL-CFS-018-423	18 in	SEE MAP	12.0%	158
REL-CFS-018-424	18 in	SEE MAP	12.0%	158
REL-CFS-018-425	18 in	SEE MAP	12.0%	158
REL-CFS-018-426	18 in	SEE MAP	12.0%	158
REL-CFS-018-427	18 in	SEE MAP	12.0%	158
REL-CFS-019-001	12 in	SEE MAP	19.2%	73
REL-CFS-019-002	12 in	SEE MAP	19.2%	73
REL-CFS-019-003	12 in	SEE MAP	19.2%	73
REL-CFS-019-004	12 in	SEE MAP	19.2%	73
REL-CFS-019-005	12 in	SEE MAP	19.2%	73

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-019-006	12 in	SEE MAP	19.2%	73
REL-CFS-019-007	18 in	SEE MAP	17.3%	150
REL-CFS-019-008	18 in	SEE MAP	17.3%	150
REL-CFS-019-009	18 in	SEE MAP	17.3%	150
REL-CFS-019-010	18 in	SEE MAP	17.3%	150
REL-CFS-019-011	18 in	SEE MAP	17.3%	150
REL-CFS-019-012	18 in	SEE MAP	17.3%	150
REL-CFS-019-013	18 in	SEE MAP	17.3%	150
REL-CFS-019-014	18 in	SEE MAP	17.3%	150
REL-CFS-019-015	18 in	SEE MAP	17.3%	150
REL-CFS-019-016	18 in	SEE MAP	17.3%	150
REL-CFS-019-017	18 in	SEE MAP	17.3%	150
REL-CFS-019-018	18 in	SEE MAP	17.3%	150
REL-CFS-019-019	18 in	SEE MAP	20.3%	128
REL-CFS-019-020	18 in	SEE MAP	20.3%	128
REL-CFS-019-021	18 in	SEE MAP	20.3%	128
REL-CFS-019-022	18 in	SEE MAP	20.3%	128
REL-CFS-019-023	18 in	SEE MAP	20.3%	128
REL-CFS-019-024	18 in	SEE MAP	20.3%	128
REL-CFS-019-025	18 in	SEE MAP	20.3%	128
REL-CFS-019-026	18 in	SEE MAP	20.3%	128
REL-CFS-019-027	18 in	SEE MAP	20.3%	128
REL-CFS-019-028	18 in	SEE MAP	20.3%	128
REL-CFS-019-029	18 in	SEE MAP	22.4%	107
REL-CFS-019-030	18 in	SEE MAP	22.4%	107
REL-CFS-019-031	18 in	SEE MAP	22.4%	107
REL-CFS-019-032	18 in	SEE MAP	22.4%	107
REL-CFS-019-033	18 in	SEE MAP	22.4%	107
REL-CFS-019-034	18 in	SEE MAP	22.4%	107
REL-CFS-019-035	18 in	SEE MAP	22.4%	107
REL-CFS-019-036	18 in	SEE MAP	22.4%	107
REL-CFS-019-037	18 in	SEE MAP	22.4%	107
REL-CFS-019-038	18 in	SEE MAP	22.4%	107
REL-CFS-019-039	18 in	SEE MAP	22.4%	107
REL-CFS-019-040	18 in	SEE MAP	16.6%	157
REL-CFS-019-041	18 in	SEE MAP	16.6%	157
REL-CFS-019-042	18 in	SEE MAP	16.6%	157

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-019-043	18 in	SEE MAP	16.6%	157
REL-CFS-019-044	18 in	SEE MAP	16.6%	157
REL-CFS-019-045	18 in	SEE MAP	16.6%	157
REL-CFS-019-046	18 in	SEE MAP	16.6%	157
REL-CFS-019-047	18 in	SEE MAP	16.6%	157
REL-CFS-019-048	18 in	SEE MAP	16.6%	157
REL-CFS-019-049	18 in	SEE MAP	16.6%	157
REL-CFS-019-050	18 in	SEE MAP	16.6%	157
REL-CFS-019-051	18 in	SEE MAP	14.0%	143
REL-CFS-019-052	18 in	SEE MAP	14.0%	143
REL-CFS-019-053	18 in	SEE MAP	14.0%	143
REL-CFS-019-054	18 in	SEE MAP	14.0%	143
REL-CFS-019-055	18 in	SEE MAP	14.0%	143
REL-CFS-019-056	18 in	SEE MAP	14.0%	143
REL-CFS-019-057	18 in	SEE MAP	14.0%	143
REL-CFS-019-058	18 in	SEE MAP	14.0%	143
REL-CFS-019-059	18 in	SEE MAP	14.0%	143
REL-CFS-019-060	18 in	SEE MAP	14.0%	143
REL-CFS-019-061	18 in	SEE MAP	10.8%	185
REL-CFS-019-062	18 in	SEE MAP	10.8%	185
REL-CFS-019-063	18 in	SEE MAP	10.8%	185
REL-CFS-019-064	18 in	SEE MAP	10.8%	185
REL-CFS-019-065	18 in	SEE MAP	10.8%	185
REL-CFS-019-066	18 in	SEE MAP	10.8%	185
REL-CFS-019-067	18 in	SEE MAP	10.8%	185
REL-CFS-019-068	18 in	SEE MAP	10.8%	185
REL-CFS-019-069	18 in	SEE MAP	10.8%	185
REL-CFS-019-070	12 in	SEE MAP	6.1%	165
REL-CFS-019-071	12 in	SEE MAP	6.1%	165
REL-CFS-019-072	12 in	SEE MAP	6.1%	165
REL-CFS-019-073	12 in	SEE MAP	6.1%	165
REL-CFS-019-074	12 in	SEE MAP	6.1%	165
REL-CFS-019-075	12 in	SEE MAP	3.5%	143
REL-CFS-019-076	12 in	SEE MAP	3.5%	143
REL-CFS-019-077	12 in	SEE MAP	3.5%	143
REL-CFS-019-078	12 in	SEE MAP	3.5%	143
REL-CFS-019-079	12 in	SEE MAP	3.5%	143
REL-CFS-019-080	12 in	SEE MAP	3.5%	143

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-019-081	12 in	SEE MAP	3.5%	143
REL-CFS-019-082	18 in	SEE MAP	4.2%	359
REL-CFS-019-083	18 in	SEE MAP	4.2%	359
REL-CFS-019-084	18 in	SEE MAP	4.2%	359
REL-CFS-019-085	18 in	SEE MAP	4.2%	359
REL-CFS-019-086	18 in	SEE MAP	4.2%	359
REL-CFS-019-087	18 in	SEE MAP	4.2%	359
REL-CFS-019-088	18 in	SEE MAP	4.2%	359
REL-CFS-019-089	18 in	SEE MAP	4.2%	359
REL-CFS-019-090	18 in	SEE MAP	4.2%	359
REL-CFS-019-091	18 in	SEE MAP	12.4%	193
REL-CFS-019-092	18 in	SEE MAP	12.4%	193
REL-CFS-019-093	18 in	SEE MAP	12.4%	193
REL-CFS-019-094	18 in	SEE MAP	12.4%	193
REL-CFS-019-095	18 in	SEE MAP	12.4%	193
REL-CFS-019-096	18 in	SEE MAP	12.2%	197
REL-CFS-019-097	18 in	SEE MAP	12.2%	197
REL-CFS-019-098	18 in	SEE MAP	12.2%	197
REL-CFS-019-099	18 in	SEE MAP	12.2%	197
REL-CFS-019-100	18 in	SEE MAP	12.2%	197
REL-CFS-019-101	18 in	SEE MAP	12.2%	197
REL-CFS-019-102	18 in	SEE MAP	12.2%	197
REL-CFS-019-103	18 in	SEE MAP	12.2%	197
REL-CFS-019-104	18 in	SEE MAP	12.2%	197
REL-CFS-019-105	18 in	SEE MAP	12.2%	197
REL-CFS-019-106	18 in	SEE MAP	12.2%	197
REL-CFS-019-107	18 in	SEE MAP	11.6%	138
REL-CFS-019-108	18 in	SEE MAP	11.6%	138
REL-CFS-019-109	18 in	SEE MAP	11.6%	138
REL-CFS-019-110	18 in	SEE MAP	11.6%	138
REL-CFS-019-111	18 in	SEE MAP	11.6%	138
REL-CFS-019-112	18 in	SEE MAP	11.6%	138
REL-CFS-019-113	18 in	SEE MAP	11.6%	138
REL-CFS-019-114	18 in	SEE MAP	11.6%	138
REL-CFS-019-115	32 in	SEE MAP	19.5%	257
REL-CFS-019-116	32 in	SEE MAP	19.5%	257
REL-CFS-019-117	32 in	SEE MAP	19.5%	257
REL-CFS-019-118	32 in	SEE MAP	19.5%	257
REL-CFS-019-119	32 in	SEE MAP	19.5%	257
REL-CFS-019-120	32 in	SEE MAP	19.5%	257
REL-CFS-019-121	32 in	SEE MAP	19.5%	257

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-019-122	32 in	SEE MAP	19.5%	257
REL-CFS-019-123	32 in	SEE MAP	19.5%	257
REL-CFS-019-124	32 in	SEE MAP	19.5%	257
REL-CFS-019-125	32 in	SEE MAP	19.5%	257
REL-CFS-019-126	32 in	SEE MAP	19.5%	257
REL-CFS-019-127	32 in	SEE MAP	19.5%	257
REL-CFS-019-128	32 in	SEE MAP	19.5%	257
REL-CFS-019-129	32 in	SEE MAP	19.5%	257
REL-CFS-019-130	32 in	SEE MAP	19.5%	257
REL-CFS-019-131	32 in	SEE MAP	19.5%	257
REL-CFS-019-132	32 in	SEE MAP	19.5%	257
REL-CFS-019-133	32 in	SEE MAP	19.5%	257
REL-CFS-019-134	32 in	SEE MAP	19.5%	257
REL-CFS-019-135	32 in	SEE MAP	19.5%	257
REL-CFS-019-136	32 in	SEE MAP	19.5%	257
REL-CFS-019-137	32 in	SEE MAP	19.5%	257
REL-CFS-019-138	32 in	SEE MAP	19.5%	257
REL-CFS-019-139	32 in	SEE MAP	19.5%	257
REL-CFS-019-140	32 in	SEE MAP	19.5%	257
REL-CFS-019-141	32 in	SEE MAP	19.5%	257
REL-CFS-019-142	32 in	SEE MAP	19.5%	257
REL-CFS-019-143	32 in	SEE MAP	19.5%	257
REL-CFS-019-144	32 in	SEE MAP	19.5%	257
REL-CFS-019-145	32 in	SEE MAP	19.5%	257
REL-CFS-019-146	18 in	SEE MAP	18.0%	111
REL-CFS-019-147	18 in	SEE MAP	18.0%	111
REL-CFS-019-148	18 in	SEE MAP	18.0%	111
REL-CFS-019-149	18 in	SEE MAP	18.0%	111
REL-CFS-019-150	18 in	SEE MAP	18.0%	111
REL-CFS-019-151	18 in	SEE MAP	18.0%	111
REL-CFS-019-152	18 in	SEE MAP	18.0%	111
REL-CFS-019-153	24 in	SEE MAP	23.5%	153
REL-CFS-019-154	24 in	SEE MAP	23.5%	153
REL-CFS-019-155	24 in	SEE MAP	23.5%	153
REL-CFS-019-156	24 in	SEE MAP	23.5%	153
REL-CFS-019-157	24 in	SEE MAP	23.5%	153
REL-CFS-019-158	24 in	SEE MAP	17.8%	180
REL-CFS-019-159	24 in	SEE MAP	17.8%	180
REL-CFS-019-160	24 in	SEE MAP	17.8%	180
REL-CFS-019-161	24 in	SEE MAP	17.8%	180
REL-CFS-019-162	24 in	SEE MAP	17.8%	180

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-019-163	24 in	SEE MAP	17.8%	180
REL-CFS-019-164	24 in	SEE MAP	17.8%	180
REL-CFS-019-165	18 in	SEE MAP	9.1%	197
REL-CFS-019-166	18 in	SEE MAP	9.1%	197
REL-CFS-019-167	18 in	SEE MAP	9.1%	197
REL-CFS-019-168	18 in	SEE MAP	9.1%	197
REL-CFS-019-169	18 in	SEE MAP	9.1%	197
REL-CFS-019-170	18 in	SEE MAP	5.8%	274
REL-CFS-019-171	18 in	SEE MAP	5.8%	274
REL-CFS-019-172	18 in	SEE MAP	5.8%	274
REL-CFS-019-173	18 in	SEE MAP	5.8%	274
REL-CFS-019-174	18 in	SEE MAP	5.8%	274
REL-CFS-019-175	18 in	SEE MAP	5.8%	274
REL-CFS-019-176	18 in	SEE MAP	5.8%	274
REL-CFS-019-177	18 in	SEE MAP	5.8%	274
REL-CFS-019-178	18 in	SEE MAP	5.8%	274
REL-CFS-019-179	12 in	SEE MAP	2.7%	256
REL-CFS-019-180	12 in	SEE MAP	2.7%	256
REL-CFS-019-181	12 in	SEE MAP	2.7%	256
REL-CFS-019-182	12 in	SEE MAP	2.7%	256
REL-CFS-019-183	12 in	SEE MAP	2.7%	256
REL-CFS-019-184	12 in	SEE MAP	4.2%	289
REL-CFS-019-185	12 in	SEE MAP	4.2%	289
REL-CFS-019-186	12 in	SEE MAP	3.2%	63
REL-CFS-019-187	12 in	SEE MAP	7.8%	103
REL-CFS-019-188	12 in	SEE MAP	7.8%	103
REL-CFS-019-189	12 in	SEE MAP	7.8%	103
REL-CFS-020-001	12 in	SEE MAP	8.5%	117
REL-CFS-020-002	12 in	SEE MAP	8.5%	117
REL-CFS-020-003	12 in	SEE MAP	8.5%	117
REL-CFS-020-004	12 in	SEE MAP	8.5%	117
REL-CFS-020-005	12 in	SEE MAP	8.5%	117
REL-CFS-020-006	12 in	SEE MAP	8.5%	117
REL-CFS-020-007	12 in	SEE MAP	8.5%	117
REL-CFS-020-008	18 in	SEE MAP	18.3%	131
REL-CFS-020-009	18 in	SEE MAP	18.3%	131
REL-CFS-020-010	18 in	SEE MAP	18.3%	131
REL-CFS-020-011	18 in	SEE MAP	18.3%	131
REL-CFS-020-012	18 in	SEE MAP	18.3%	131
REL-CFS-020-013	18 in	SEE MAP	18.3%	131
REL-CFS-020-014	18 in	SEE MAP	18.3%	131

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-020-015	18 in	SEE MAP	18.3%	131
REL-CFS-020-016	18 in	SEE MAP	18.3%	131
REL-CFS-020-017	18 in	SEE MAP	18.3%	131
REL-CFS-020-018	18 in	SEE MAP	18.3%	131
REL-CFS-020-019	18 in	SEE MAP	18.3%	131
REL-CFS-020-020	18 in	SEE MAP	12.2%	131
REL-CFS-020-021	18 in	SEE MAP	12.2%	131
REL-CFS-020-022	18 in	SEE MAP	12.2%	131
REL-CFS-020-023	18 in	SEE MAP	12.2%	131
REL-CFS-020-024	18 in	SEE MAP	12.2%	131
REL-CFS-020-025	18 in	SEE MAP	12.2%	131
REL-CFS-020-026	18 in	SEE MAP	12.2%	131
REL-CFS-020-027	18 in	SEE MAP	12.2%	131
REL-CFS-020-028	18 in	SEE MAP	15.2%	171
REL-CFS-020-029	18 in	SEE MAP	15.2%	171
REL-CFS-020-030	18 in	SEE MAP	15.2%	171
REL-CFS-020-031	18 in	SEE MAP	15.2%	171
REL-CFS-020-032	18 in	SEE MAP	15.2%	171
REL-CFS-020-033	18 in	SEE MAP	15.2%	171
REL-CFS-020-034	18 in	SEE MAP	15.2%	171
REL-CFS-020-035	18 in	SEE MAP	15.2%	171
REL-CFS-020-036	18 in	SEE MAP	15.2%	171
REL-CFS-020-037	18 in	SEE MAP	15.2%	171
REL-CFS-020-038	18 in	SEE MAP	15.2%	171
REL-CFS-020-039	18 in	SEE MAP	15.2%	171
REL-CFS-020-040	18 in	SEE MAP	15.2%	171
REL-CFS-020-041	18 in	SEE MAP	17.1%	105
REL-CFS-020-042	18 in	SEE MAP	17.1%	105
REL-CFS-020-043	18 in	SEE MAP	17.1%	105
REL-CFS-020-044	18 in	SEE MAP	17.1%	105
REL-CFS-020-045	18 in	SEE MAP	17.1%	105
REL-CFS-020-046	18 in	SEE MAP	17.1%	105
REL-CFS-020-047	18 in	SEE MAP	26.5%	68
REL-CFS-020-048	18 in	SEE MAP	26.5%	68
REL-CFS-020-049	18 in	SEE MAP	26.5%	68
REL-CFS-020-050	18 in	SEE MAP	26.5%	68
REL-CFS-020-051	18 in	SEE MAP	26.5%	68
REL-CFS-020-052	18 in	SEE MAP	26.5%	68
REL-CFS-020-053	18 in	SEE MAP	26.5%	68

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-020-054	18 in	SEE MAP	26.5%	68
REL-CFS-020-055	18 in	SEE MAP	29.0%	69
REL-CFS-020-056	18 in	SEE MAP	29.0%	69
REL-CFS-020-057	18 in	SEE MAP	29.0%	69
REL-CFS-020-058	18 in	SEE MAP	29.0%	69
REL-CFS-020-059	18 in	SEE MAP	29.0%	69
REL-CFS-020-060	18 in	SEE MAP	29.0%	69
REL-CFS-020-061	18 in	SEE MAP	29.0%	69
REL-CFS-020-062	18 in	SEE MAP	29.0%	69
REL-CFS-020-063	18 in	SEE MAP	31.4%	70
REL-CFS-020-064	18 in	SEE MAP	31.4%	70
REL-CFS-020-065	18 in	SEE MAP	31.4%	70
REL-CFS-020-066	18 in	SEE MAP	31.4%	70
REL-CFS-020-067	18 in	SEE MAP	31.4%	70
REL-CFS-020-068	18 in	SEE MAP	31.4%	70
REL-CFS-020-069	18 in	SEE MAP	31.4%	70
REL-CFS-020-070	18 in	SEE MAP	31.4%	70
REL-CFS-020-071	18 in	SEE MAP	31.4%	70
REL-CFS-020-072	18 in	SEE MAP	31.4%	70
REL-CFS-020-073	18 in	SEE MAP	23.6%	93
REL-CFS-020-074	18 in	SEE MAP	23.6%	93
REL-CFS-020-075	18 in	SEE MAP	23.6%	93
REL-CFS-020-076	18 in	SEE MAP	23.6%	93
REL-CFS-020-077	18 in	SEE MAP	23.6%	93
REL-CFS-020-078	18 in	SEE MAP	23.6%	93
REL-CFS-020-079	18 in	SEE MAP	23.6%	93
REL-CFS-020-080	18 in	SEE MAP	23.6%	93
REL-CFS-020-081	18 in	SEE MAP	23.6%	93
REL-CFS-020-082	18 in	SEE MAP	23.6%	93
REL-CFS-020-083	12 in	SEE MAP	15.1%	93
REL-CFS-020-084	12 in	SEE MAP	15.1%	93
REL-CFS-020-085	12 in	SEE MAP	15.1%	93
REL-CFS-020-086	12 in	SEE MAP	15.1%	93
REL-CFS-020-087	12 in	SEE MAP	15.1%	93
REL-CFS-020-088	12 in	SEE MAP	15.1%	93
REL-CFS-020-089	12 in	SEE MAP	15.1%	93
REL-CFS-020-090	12 in	SEE MAP	15.1%	93
REL-CFS-020-091	12 in	SEE MAP	15.1%	93
REL-CFS-020-092	12 in	SEE MAP	15.1%	93
REL-CFS-020-093	12 in	SEE MAP	15.1%	93
REL-CFS-020-094	12 in	SEE MAP	15.1%	93

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-020-095	12 in	SEE MAP	15.1%	93
REL-CFS-020-096	12 in	SEE MAP	15.1%	93
REL-CFS-020-097	18 in	SEE MAP	20.4%	108
REL-CFS-020-098	18 in	SEE MAP	20.4%	108
REL-CFS-020-099	18 in	SEE MAP	20.4%	108
REL-CFS-020-100	18 in	SEE MAP	20.4%	108
REL-CFS-020-101	18 in	SEE MAP	20.4%	108
REL-CFS-020-102	18 in	SEE MAP	20.4%	108
REL-CFS-020-103	18 in	SEE MAP	20.4%	108
REL-CFS-020-104	18 in	SEE MAP	20.4%	108
REL-CFS-020-105	18 in	SEE MAP	20.4%	108
REL-CFS-020-106	18 in	SEE MAP	20.4%	108
REL-CFS-020-107	18 in	SEE MAP	20.4%	108
REL-CFS-020-108	18 in	SEE MAP	20.4%	108
REL-CFS-020-109	18 in	SEE MAP	20.4%	108
REL-CFS-020-110	18 in	SEE MAP	20.4%	108
REL-CFS-020-111	18 in	SEE MAP	20.4%	108
REL-CFS-020-112	18 in	SEE MAP	20.4%	108
REL-CFS-020-113	18 in	SEE MAP	20.4%	108
REL-CFS-020-114	18 in	SEE MAP	20.4%	108
REL-CFS-020-115	18 in	SEE MAP	20.4%	108
REL-CFS-020-116	18 in	SEE MAP	20.4%	108
REL-CFS-020-117	18 in	SEE MAP	20.4%	108
REL-CFS-020-118	18 in	SEE MAP	20.4%	108
REL-CFS-020-119	18 in	SEE MAP	20.4%	108
REL-CFS-020-120	18 in	SEE MAP	20.4%	108
REL-CFS-020-121	18 in	SEE MAP	18.8%	85
REL-CFS-020-122	18 in	SEE MAP	18.8%	85
REL-CFS-020-123	18 in	SEE MAP	18.8%	85
REL-CFS-020-124	18 in	SEE MAP	18.8%	85
REL-CFS-020-125	18 in	SEE MAP	18.8%	85
REL-CFS-020-126	18 in	SEE MAP	18.8%	85
REL-CFS-020-127	18 in	SEE MAP	18.8%	85
REL-CFS-020-128	18 in	SEE MAP	18.8%	85
REL-CFS-020-129	12 in	SEE MAP	11.5%	87
REL-CFS-020-130	12 in	SEE MAP	11.5%	87
REL-CFS-020-131	12 in	SEE MAP	11.5%	87
REL-CFS-020-132	12 in	SEE MAP	11.5%	87
REL-CFS-020-133	12 in	SEE MAP	11.5%	87
REL-CFS-020-134	12 in	SEE MAP	11.5%	87
REL-CFS-020-135	12 in	SEE MAP	11.5%	87

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-020-136	12 in	SEE MAP	11.5%	87
REL-CFS-020-137	12 in	SEE MAP	11.5%	87
REL-CFS-020-138	12 in	SEE MAP	11.5%	87
REL-CFS-020-139	12 in	SEE MAP	11.5%	87
REL-CFS-020-140	12 in	SEE MAP	11.5%	87
REL-CFS-020-141	12 in	SEE MAP	11.5%	87
REL-CFS-020-142	12 in	SEE MAP	11.5%	87
REL-CFS-020-143	12 in	SEE MAP	11.5%	87
REL-CFS-020-144	12 in	SEE MAP	11.5%	87
REL-CFS-020-145	12 in	SEE MAP	11.5%	87
REL-CFS-020-146	12 in	SEE MAP	8.5%	177
REL-CFS-020-147	12 in	SEE MAP	8.5%	177
REL-CFS-020-148	12 in	SEE MAP	8.5%	177
REL-CFS-020-149	18 in	SEE MAP	6.6%	303
REL-CFS-020-150	18 in	SEE MAP	6.6%	303
REL-CFS-020-151	18 in	SEE MAP	6.6%	303
REL-CFS-020-152	18 in	SEE MAP	6.6%	303
REL-CFS-020-153	18 in	SEE MAP	6.6%	303
REL-CFS-020-154	12 in	SEE MAP	7.5%	120
REL-CFS-020-155	12 in	SEE MAP	7.5%	120
REL-CFS-020-156	12 in	SEE MAP	7.5%	120
REL-CFS-020-157	12 in	SEE MAP	7.5%	120
REL-CFS-020-158	12 in	SEE MAP	7.5%	120
REL-CFS-020-159	12 in	SEE MAP	7.5%	120
REL-CFS-020-160	12 in	SEE MAP	7.5%	120
REL-CFS-020-161	12 in	SEE MAP	6.1%	98
REL-CFS-020-162	12 in	SEE MAP	6.1%	98
REL-CFS-020-163	12 in	SEE MAP	6.1%	98
REL-CFS-020-164	12 in	SEE MAP	6.1%	98
REL-CFS-020-165	12 in	SEE MAP	6.1%	98
REL-CFS-020-166	18 in	SEE MAP	14.1%	142
REL-CFS-020-167	18 in	SEE MAP	14.1%	142
REL-CFS-020-168	18 in	SEE MAP	14.1%	142
REL-CFS-020-169	18 in	SEE MAP	14.1%	142
REL-CFS-020-170	18 in	SEE MAP	14.1%	142
REL-CFS-020-171	18 in	SEE MAP	14.1%	142
REL-CFS-020-172	18 in	SEE MAP	14.1%	142
REL-CFS-020-173	18 in	SEE MAP	14.1%	142
REL-CFS-020-174	18 in	SEE MAP	14.1%	142
REL-CFS-020-175	18 in	SEE MAP	14.1%	142
REL-CFS-020-176	18 in	SEE MAP	17.1%	152

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-020-177	18 in	SEE MAP	17.1%	152
REL-CFS-020-178	18 in	SEE MAP	17.1%	152
REL-CFS-020-179	18 in	SEE MAP	17.1%	152
REL-CFS-020-180	18 in	SEE MAP	17.1%	152
REL-CFS-020-181	18 in	SEE MAP	17.1%	152
REL-CFS-020-182	18 in	SEE MAP	17.1%	152
REL-CFS-020-183	18 in	SEE MAP	17.1%	152
REL-CFS-020-184	18 in	SEE MAP	17.1%	152
REL-CFS-020-185	18 in	SEE MAP	17.1%	152
REL-CFS-020-186	18 in	SEE MAP	17.1%	152
REL-CFS-020-187	18 in	SEE MAP	17.1%	152
REL-CFS-020-188	18 in	SEE MAP	17.1%	152
REL-CFS-020-189	18 in	SEE MAP	17.1%	152
REL-CFS-020-190	18 in	SEE MAP	17.1%	152
REL-CFS-020-191	18 in	SEE MAP	17.1%	152
REL-CFS-020-192	18 in	SEE MAP	17.1%	152
REL-CFS-020-193	18 in	SEE MAP	17.1%	152
REL-CFS-020-194	18 in	SEE MAP	17.1%	152
REL-CFS-020-195	18 in	SEE MAP	17.1%	152
REL-CFS-020-196	18 in	SEE MAP	17.1%	152
REL-CFS-020-197	18 in	SEE MAP	17.1%	152
REL-CFS-020-198	18 in	SEE MAP	17.1%	152
REL-CFS-020-199	18 in	SEE MAP	17.1%	152
REL-CFS-020-200	18 in	SEE MAP	17.1%	152
REL-CFS-020-201	12 in	SEE MAP	15.0%	80
REL-CFS-020-202	12 in	SEE MAP	15.0%	80
REL-CFS-020-203	12 in	SEE MAP	15.0%	80
REL-CFS-020-204	12 in	SEE MAP	15.0%	80
REL-CFS-020-205	12 in	SEE MAP	15.0%	80
REL-CFS-020-206	12 in	SEE MAP	15.0%	80
REL-CFS-020-207	12 in	SEE MAP	15.0%	80
REL-CFS-020-208	12 in	SEE MAP	15.0%	80
REL-CFS-020-209	12 in	SEE MAP	15.0%	80
REL-CFS-020-210	12 in	SEE MAP	15.0%	80
REL-CFS-020-211	12 in	SEE MAP	15.0%	80
REL-CFS-020-212	12 in	SEE MAP	15.0%	80
REL-CFS-020-213	12 in	SEE MAP	15.0%	80
REL-CFS-020-214	12 in	SEE MAP	15.0%	80
REL-CFS-020-215	12 in	SEE MAP	15.0%	80
REL-CFS-020-216	12 in	SEE MAP	15.0%	80
REL-CFS-020-217	12 in	SEE MAP	15.0%	80
REL-CFS-020-218	12 in	SEE MAP	15.0%	80

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-020-219	12 in	SEE MAP	12.8%	109
REL-CFS-020-220	12 in	SEE MAP	12.8%	109
REL-CFS-020-221	12 in	SEE MAP	12.8%	109
REL-CFS-020-222	12 in	SEE MAP	12.8%	109
REL-CFS-020-223	12 in	SEE MAP	12.8%	109
REL-CFS-020-224	12 in	SEE MAP	12.8%	109
REL-CFS-020-225	12 in	SEE MAP	12.8%	109
REL-CFS-020-226	12 in	SEE MAP	12.8%	109
REL-CFS-020-227	12 in	SEE MAP	12.8%	109
REL-CFS-020-228	12 in	SEE MAP	12.8%	109
REL-CFS-020-229	12 in	SEE MAP	10.5%	76
REL-CFS-020-230	12 in	SEE MAP	10.5%	76
REL-CFS-020-231	12 in	SEE MAP	10.5%	76
REL-CFS-020-232	12 in	SEE MAP	10.5%	76
REL-CFS-020-233	12 in	SEE MAP	10.5%	76
REL-CFS-020-234	12 in	SEE MAP	10.5%	76
REL-CFS-020-235	12 in	SEE MAP	10.9%	91
REL-CFS-020-236	12 in	SEE MAP	10.9%	91
REL-CFS-020-237	12 in	SEE MAP	10.9%	91
REL-CFS-020-238	12 in	SEE MAP	10.9%	91
REL-CFS-020-239	12 in	SEE MAP	10.9%	91
REL-CFS-020-240	12 in	SEE MAP	10.9%	91
REL-CFS-020-241	12 in	SEE MAP	10.9%	91
REL-CFS-020-242	12 in	SEE MAP	10.9%	91
REL-CFS-020-243	12 in	SEE MAP	10.9%	91
REL-CFS-020-244	12 in	SEE MAP	10.7%	149
REL-CFS-020-245	12 in	SEE MAP	10.7%	149
REL-CFS-020-246	12 in	SEE MAP	10.7%	149
REL-CFS-020-247	12 in	SEE MAP	10.7%	149
REL-CFS-020-248	12 in	SEE MAP	10.7%	149
REL-CFS-020-249	12 in	SEE MAP	10.7%	149
REL-CFS-020-250	12 in	SEE MAP	10.7%	149
REL-CFS-020-251	12 in	SEE MAP	10.7%	149
REL-CFS-020-252	12 in	SEE MAP	10.7%	149
REL-CFS-020-253	12 in	SEE MAP	10.7%	149
REL-CFS-020-254	12 in	SEE MAP	10.7%	149
REL-CFS-020-255	12 in	SEE MAP	10.7%	149
REL-CFS-020-256	12 in	SEE MAP	10.7%	149
REL-CFS-020-257	12 in	SEE MAP	10.7%	149
REL-CFS-020-258	12 in	SEE MAP	10.7%	149

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-020-259	12 in	SEE MAP	10.7%	149
REL-CFS-020-260	12 in	SEE MAP	10.7%	149
REL-CFS-020-261	12 in	SEE MAP	10.7%	149
REL-CFS-021-001	12 in	SEE MAP	9.6%	125
REL-CFS-021-002	12 in	SEE MAP	9.6%	125
REL-CFS-021-003	12 in	SEE MAP	9.6%	125
REL-CFS-021-004	12 in	SEE MAP	9.6%	125
REL-CFS-021-005	12 in	SEE MAP	9.6%	125
REL-CFS-021-006	12 in	SEE MAP	9.6%	125
REL-CFS-021-007	12 in	SEE MAP	9.6%	125
REL-CFS-021-008	12 in	SEE MAP	9.6%	125
REL-CFS-021-009	12 in	SEE MAP	11.1%	108
REL-CFS-021-010	12 in	SEE MAP	11.1%	108
REL-CFS-021-011	12 in	SEE MAP	11.1%	108
REL-CFS-021-012	12 in	SEE MAP	11.1%	108
REL-CFS-021-013	12 in	SEE MAP	11.1%	108
REL-CFS-021-014	12 in	SEE MAP	11.1%	108
REL-CFS-021-015	12 in	SEE MAP	11.1%	108
REL-CFS-021-016	12 in	SEE MAP	11.1%	108
REL-CFS-021-017	12 in	SEE MAP	11.1%	108
REL-CFS-021-018	12 in	SEE MAP	11.1%	108
REL-CFS-021-019	12 in	SEE MAP	11.1%	108
REL-CFS-021-020	12 in	SEE MAP	11.1%	108
REL-CFS-021-021	12 in	SEE MAP	11.1%	108
REL-CFS-021-022	12 in	SEE MAP	11.1%	108
REL-CFS-021-023	12 in	SEE MAP	11.1%	108
REL-CFS-021-024	12 in	SEE MAP	11.1%	108
REL-CFS-021-025	12 in	SEE MAP	11.1%	108
REL-CFS-021-026	12 in	SEE MAP	11.1%	108
REL-CFS-021-027	12 in	SEE MAP	11.1%	108
REL-CFS-021-028	12 in	SEE MAP	11.1%	108
REL-CFS-021-029	12 in	SEE MAP	11.1%	108
REL-CFS-021-030	12 in	SEE MAP	11.1%	108
REL-CFS-021-031	12 in	SEE MAP	11.1%	108
REL-CFS-021-032	12 in	SEE MAP	11.1%	108
REL-CFS-021-033	12 in	SEE MAP	11.1%	108
REL-CFS-021-034	12 in	SEE MAP	11.1%	108
REL-CFS-021-035	12 in	SEE MAP	11.1%	108
REL-CFS-021-036	12 in	SEE MAP	11.1%	108
REL-CFS-021-037	12 in	SEE MAP	11.1%	108
REL-CFS-021-038	18 in	SEE MAP	17.1%	117

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-021-039	18 in	SEE MAP	17.1%	117
REL-CFS-021-040	18 in	SEE MAP	17.1%	117
REL-CFS-021-041	18 in	SEE MAP	17.1%	117
REL-CFS-021-042	18 in	SEE MAP	17.1%	117
REL-CFS-021-043	18 in	SEE MAP	17.1%	117
REL-CFS-021-044	18 in	SEE MAP	17.1%	117
REL-CFS-021-045	18 in	SEE MAP	17.1%	117
REL-CFS-021-046	18 in	SEE MAP	17.1%	117
REL-CFS-021-047	18 in	SEE MAP	17.1%	117
REL-CFS-021-048	18 in	SEE MAP	17.1%	117
REL-CFS-021-049	18 in	SEE MAP	17.1%	117
REL-CFS-021-050	18 in	SEE MAP	17.1%	117
REL-CFS-021-051	18 in	SEE MAP	17.1%	117
REL-CFS-021-052	18 in	SEE MAP	17.1%	117
REL-CFS-021-053	18 in	SEE MAP	17.1%	117
REL-CFS-021-054	18 in	SEE MAP	17.1%	117
REL-CFS-021-055	18 in	SEE MAP	17.1%	117
REL-CFS-021-056	24 in	SEE MAP	25.7%	105
REL-CFS-021-057	24 in	SEE MAP	25.7%	105
REL-CFS-021-058	24 in	SEE MAP	25.7%	105
REL-CFS-021-059	24 in	SEE MAP	25.7%	105
REL-CFS-021-060	24 in	SEE MAP	25.7%	105
REL-CFS-021-061	24 in	SEE MAP	25.7%	105
REL-CFS-021-062	24 in	SEE MAP	25.7%	105
REL-CFS-021-063	24 in	SEE MAP	25.7%	105
REL-CFS-021-064	24 in	SEE MAP	25.7%	105
REL-CFS-021-065	24 in	SEE MAP	25.7%	105
REL-CFS-021-066	24 in	SEE MAP	25.7%	105
REL-CFS-021-067	24 in	SEE MAP	25.7%	105
REL-CFS-021-068	24 in	SEE MAP	25.7%	105
REL-CFS-021-069	18 in	SEE MAP	20.0%	70
REL-CFS-021-070	18 in	SEE MAP	20.0%	70
REL-CFS-021-071	18 in	SEE MAP	20.0%	70
REL-CFS-021-072	18 in	SEE MAP	20.0%	70
REL-CFS-021-073	18 in	SEE MAP	20.0%	70
REL-CFS-021-074	18 in	SEE MAP	16.2%	111
REL-CFS-021-075	18 in	SEE MAP	16.2%	111
REL-CFS-021-076	18 in	SEE MAP	16.2%	111
REL-CFS-021-077	18 in	SEE MAP	16.2%	111
REL-CFS-021-078	18 in	SEE MAP	16.2%	111
REL-CFS-021-079	18 in	SEE MAP	16.2%	111

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-021-080	18 in	SEE MAP	16.2%	111
REL-CFS-021-081	18 in	SEE MAP	16.2%	111
REL-CFS-021-082	18 in	SEE MAP	16.2%	111
REL-CFS-021-083	12 in	SEE MAP	9.7%	123
REL-CFS-021-084	12 in	SEE MAP	9.7%	123
REL-CFS-021-085	12 in	SEE MAP	9.7%	123
REL-CFS-021-086	12 in	SEE MAP	9.7%	123
REL-CFS-021-087	12 in	SEE MAP	9.7%	123
REL-CFS-021-088	12 in	SEE MAP	9.7%	123
REL-CFS-021-086	12 in	SEE MAP	9.7%	123
REL-CFS-021-087	12 in	SEE MAP	7.4%	95
REL-CFS-021-088	12 in	SEE MAP	7.4%	95
REL-CFS-021-089	12 in	SEE MAP	7.4%	95
REL-CFS-021-090	12 in	SEE MAP	7.4%	95
REL-CFS-021-091	12 in	SEE MAP	7.4%	95
REL-CFS-021-092	12 in	SEE MAP	7.4%	95
REL-CFS-021-093	12 in	SEE MAP	7.4%	95
REL-CFS-021-094	12 in	SEE MAP	7.4%	95
REL-CFS-021-095	12 in	SEE MAP	7.4%	95
REL-CFS-021-096	12 in	SEE MAP	7.4%	95
REL-CFS-021-097	12 in	SEE MAP	7.4%	95
REL-CFS-021-098	18 in	SEE MAP	7.4%	95
REL-CFS-021-099	18 in	SEE MAP	7.4%	95
REL-CFS-021-100	18 in	SEE MAP	7.4%	95
REL-CFS-021-101	18 in	SEE MAP	7.4%	95
REL-CFS-021-102	18 in	SEE MAP	7.4%	95
REL-CFS-021-103	18 in	SEE MAP	7.4%	95
REL-CFS-021-104	18 in	SEE MAP	7.4%	95
REL-CFS-021-105	18 in	SEE MAP	7.4%	95
REL-CFS-021-106	18 in	SEE MAP	7.4%	95
REL-CFS-021-107	18 in	SEE MAP	7.4%	95
REL-CFS-021-108	18 in	SEE MAP	7.4%	95
REL-CFS-021-109	12 in	SEE MAP	14.3%	84
REL-CFS-021-110	12 in	SEE MAP	14.3%	84
REL-CFS-021-111	12 in	SEE MAP	14.3%	84
REL-CFS-021-112	12 in	SEE MAP	14.3%	84
REL-CFS-021-113	12 in	SEE MAP	14.3%	84
REL-CFS-021-114	12 in	SEE MAP	14.3%	84
REL-CFS-021-115	18 in	SEE MAP	34.6%	52
REL-CFS-021-116	18 in	SEE MAP	34.6%	52
REL-CFS-021-117	18 in	SEE MAP	34.6%	52

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-021-118	18 in	SEE MAP	34.6%	52
REL-CFS-021-119	18 in	SEE MAP	34.6%	52
REL-CFS-021-120	18 in	SEE MAP	34.6%	52
REL-CFS-021-121	18 in	SEE MAP	34.6%	52
REL-CFS-021-122	18 in	SEE MAP	34.6%	52
REL-CFS-021-123	18 in	SEE MAP	34.6%	52
REL-CFS-021-124	18 in	SEE MAP	34.6%	52
REL-CFS-021-125	18 in	SEE MAP	34.6%	52
REL-CFS-021-126	18 in	SEE MAP	34.6%	52
REL-CFS-021-127	18 in	SEE MAP	34.6%	52
REL-CFS-021-128	18 in	SEE MAP	34.6%	52
REL-CFS-021-129	18 in	SEE MAP	34.6%	52
REL-CFS-021-130	18 in	SEE MAP	34.6%	52
REL-CFS-021-131	18 in	SEE MAP	34.6%	52
REL-CFS-021-132	18 in	SEE MAP	34.6%	52
REL-CFS-021-133	18 in	SEE MAP	34.6%	52
REL-CFS-021-134	18 in	SEE MAP	34.6%	52
REL-CFS-021-135	18 in	SEE MAP	34.6%	52
REL-CFS-021-136	18 in	SEE MAP	34.6%	52
REL-CFS-021-137	18 in	SEE MAP	34.6%	52
REL-CFS-021-138	18 in	SEE MAP	34.6%	52
REL-CFS-021-139	18 in	SEE MAP	34.6%	52
REL-CFS-021-140	18 in	SEE MAP	10.1%	159
REL-CFS-021-141	18 in	SEE MAP	10.1%	159
REL-CFS-021-142	18 in	SEE MAP	10.1%	159
REL-CFS-021-143	18 in	SEE MAP	10.1%	159
REL-CFS-021-144	18 in	SEE MAP	10.1%	159
REL-CFS-021-145	18 in	SEE MAP	10.1%	159
REL-CFS-021-146	18 in	SEE MAP	10.1%	159
REL-CFS-021-147	18 in	SEE MAP	10.1%	159
REL-CFS-021-148	18 in	SEE MAP	10.1%	159
REL-CFS-021-149	18 in	SEE MAP	10.1%	159
REL-CFS-021-150	12 in	SEE MAP	2.0%	33
REL-CFS-021-151	12 in	SEE MAP	2.0%	33
REL-CFS-021-152	18 in	SEE MAP	22.5%	89
REL-CFS-021-153	18 in	SEE MAP	22.5%	89
REL-CFS-021-154	18 in	SEE MAP	22.5%	89

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-021-155	18 in	SEE MAP	22.5%	89
REL-CFS-021-156	18 in	SEE MAP	22.5%	89
REL-CFS-021-157	18 in	SEE MAP	22.5%	89
REL-CFS-021-158	18 in	SEE MAP	22.5%	89
REL-CFS-021-159	18 in	SEE MAP	22.5%	89
REL-CFS-021-160	18 in	SEE MAP	22.5%	89
REL-CFS-021-161	18 in	SEE MAP	22.5%	89
REL-CFS-021-162	18 in	SEE MAP	16.4%	110
REL-CFS-021-163	18 in	SEE MAP	16.4%	110
REL-CFS-021-164	18 in	SEE MAP	16.4%	110
REL-CFS-021-165	18 in	SEE MAP	16.4%	110
REL-CFS-021-166	18 in	SEE MAP	22.7%	110
REL-CFS-021-167	18 in	SEE MAP	22.7%	110
REL-CFS-021-168	18 in	SEE MAP	22.7%	110
REL-CFS-021-169	18 in	SEE MAP	22.7%	110
REL-CFS-021-170	18 in	SEE MAP	22.7%	110
REL-CFS-021-171	18 in	SEE MAP	17.6%	91
REL-CFS-021-172	18 in	SEE MAP	17.6%	91
REL-CFS-021-173	18 in	SEE MAP	17.6%	91
REL-CFS-021-174	18 in	SEE MAP	17.6%	91
REL-CFS-021-175	18 in	SEE MAP	17.6%	91
REL-CFS-021-176	18 in	SEE MAP	17.6%	91
REL-CFS-021-177	18 in	SEE MAP	17.6%	91
REL-CFS-021-178	18 in	SEE MAP	17.6%	91
REL-CFS-021-179	18 in	SEE MAP	17.6%	91
REL-CFS-021-180	18 in	SEE MAP	17.6%	91
REL-CFS-021-181	18 in	SEE MAP	17.6%	91
REL-CFS-021-182	18 in	SEE MAP	17.6%	91
REL-CFS-021-183	12 in	SEE MAP	21.7%	23
REL-CFS-021-184	12 in	SEE MAP	21.7%	23
REL-CFS-021-185	12 in	SEE MAP	21.7%	23
REL-CFS-021-186	12 in	SEE MAP	8.9%	67
REL-CFS-021-187	12 in	SEE MAP	8.9%	67
REL-CFS-021-188	18 in	SEE MAP	22.8%	101
REL-CFS-021-189	32 in	SEE MAP	21.4%	215
REL-CFS-021-190	24 in	SEE MAP	21.4%	182
REL-CFS-021-191	24 in	SEE MAP	21.4%	182
REL-CFS-021-192	24 in	SEE MAP	21.4%	182
REL-CFS-021-193	24 in	SEE MAP	21.4%	182
REL-CFS-021-194	24 in	SEE MAP	21.4%	182
REL-CFS-021-195	24 in	SEE MAP	21.4%	182

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-021-196	18 in	SEE MAP	21.4%	112
REL-CFS-021-197	18 in	SEE MAP	21.4%	112
REL-CFS-021-198	18 in	SEE MAP	21.4%	112
REL-CFS-021-199	18 in	SEE MAP	21.4%	112
REL-CFS-021-200	18 in	SEE MAP	21.4%	112
REL-CFS-021-201	18 in	SEE MAP	21.4%	112
REL-CFS-021-202	12 in	SEE MAP	21.4%	62
REL-CFS-021-203	12 in	SEE MAP	21.4%	62
REL-CFS-021-204	12 in	SEE MAP	21.4%	62
REL-CFS-021-205	12 in	SEE MAP	21.4%	62
REL-CFS-021-206	12 in	SEE MAP	21.4%	62
REL-CFS-021-207	12 in	SEE MAP	21.4%	62
REL-CFS-021-208	12 in	SEE MAP	21.4%	62
REL-CFS-021-209	12 in	SEE MAP	21.4%	62
REL-CFS-021-210	24 in	SEE MAP	21.4%	182
REL-CFS-021-211	12 in	SEE MAP	11.1%	45
REL-CFS-021-212	24 in	SEE MAP	25.0%	112
REL-CFS-021-213	24 in	SEE MAP	25.0%	112
REL-CFS-021-214	24 in	SEE MAP	25.0%	112
REL-CFS-021-215	24 in	SEE MAP	25.0%	112
REL-CFS-021-216	24 in	SEE MAP	25.0%	112
REL-CFS-021-217	24 in	SEE MAP	25.0%	112
REL-CFS-021-218	24 in	SEE MAP	25.0%	112
REL-CFS-021-219	24 in	SEE MAP	25.0%	112
REL-CFS-021-220	24 in	SEE MAP	25.0%	112
REL-CFS-021-221	24 in	SEE MAP	25.0%	112
REL-CFS-021-222	24 in	SEE MAP	25.0%	112
REL-CFS-021-223	24 in	SEE MAP	25.0%	112
REL-CFS-021-224	24 in	SEE MAP	25.0%	112
REL-CFS-021-225	24 in	SEE MAP	25.0%	112
REL-CFS-021-226	24 in	SEE MAP	25.0%	112
REL-CFS-021-227	24 in	SEE MAP	25.0%	112
REL-CFS-021-228	24 in	SEE MAP	25.0%	112
REL-CFS-021-229	24 in	SEE MAP	25.0%	112
REL-CFS-021-230	24 in	SEE MAP	25.0%	112
REL-CFS-021-231	24 in	SEE MAP	25.0%	112
REL-CFS-021-232	24 in	SEE MAP	25.0%	112
REL-CFS-021-233	24 in	SEE MAP	25.0%	112
REL-CFS-021-234	24 in	SEE MAP	25.0%	112
REL-CFS-021-235	24 in	SEE MAP	25.0%	112

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-021-236	24 in	SEE MAP	25.0%	112
REL-CFS-021-237	24 in	SEE MAP	25.0%	112
REL-CFS-021-238	18 in	SEE MAP	23.9%	92
REL-CFS-021-239	18 in	SEE MAP	23.9%	92
REL-CFS-021-240	18 in	SEE MAP	23.9%	92
REL-CFS-021-241	18 in	SEE MAP	23.9%	92
REL-CFS-021-242	18 in	SEE MAP	23.9%	92
REL-CFS-021-243	18 in	SEE MAP	23.9%	92
REL-CFS-021-244	18 in	SEE MAP	23.9%	92
REL-CFS-021-245	18 in	SEE MAP	23.9%	92
REL-CFS-021-246	18 in	SEE MAP	23.9%	92
REL-CFS-021-247	18 in	SEE MAP	23.9%	92
REL-CFS-021-248	18 in	SEE MAP	23.9%	92
REL-CFS-021-249	18 in	SEE MAP	23.9%	92
REL-CFS-021-250	18 in	SEE MAP	23.9%	92
REL-CFS-021-251	18 in	SEE MAP	23.9%	92
REL-CFS-021-252	18 in	SEE MAP	23.9%	92
REL-CFS-021-253	18 in	SEE MAP	23.9%	92
REL-CFS-021-254	18 in	SEE MAP	23.9%	92
REL-CFS-021-255	18 in	SEE MAP	23.9%	92
REL-CFS-021-256	18 in	SEE MAP	23.9%	92
REL-CFS-021-257	12 in	SEE MAP	7.5%	107
REL-CFS-021-250	12 in	SEE MAP	7.5%	107
REL-CFS-021-251	12 in	SEE MAP	7.5%	107
REL-CFS-021-252	12 in	SEE MAP	7.5%	107
REL-CFS-021-253	18 in	SEE MAP	11.2%	143
REL-CFS-021-254	18 in	SEE MAP	11.2%	143
REL-CFS-021-255	18 in	SEE MAP	11.2%	143
REL-CFS-021-256	18 in	SEE MAP	11.2%	143
REL-CFS-021-257	12 in	SEE MAP	13.8%	58
REL-CFS-021-258	12 in	SEE MAP	13.8%	58
REL-CFS-021-259	12 in	SEE MAP	13.8%	58
REL-CFS-021-260	12 in	SEE MAP	13.8%	58
REL-CFS-022-001	12 in	SEE MAP	9.2%	98
REL-CFS-022-002	12 in	SEE MAP	9.2%	98
REL-CFS-022-003	12 in	SEE MAP	9.2%	98
REL-CFS-022-004	12 in	SEE MAP	9.2%	98
REL-CFS-022-005	12 in	SEE MAP	9.2%	98
REL-CFS-022-006	18 in	SEE MAP	16.3%	98

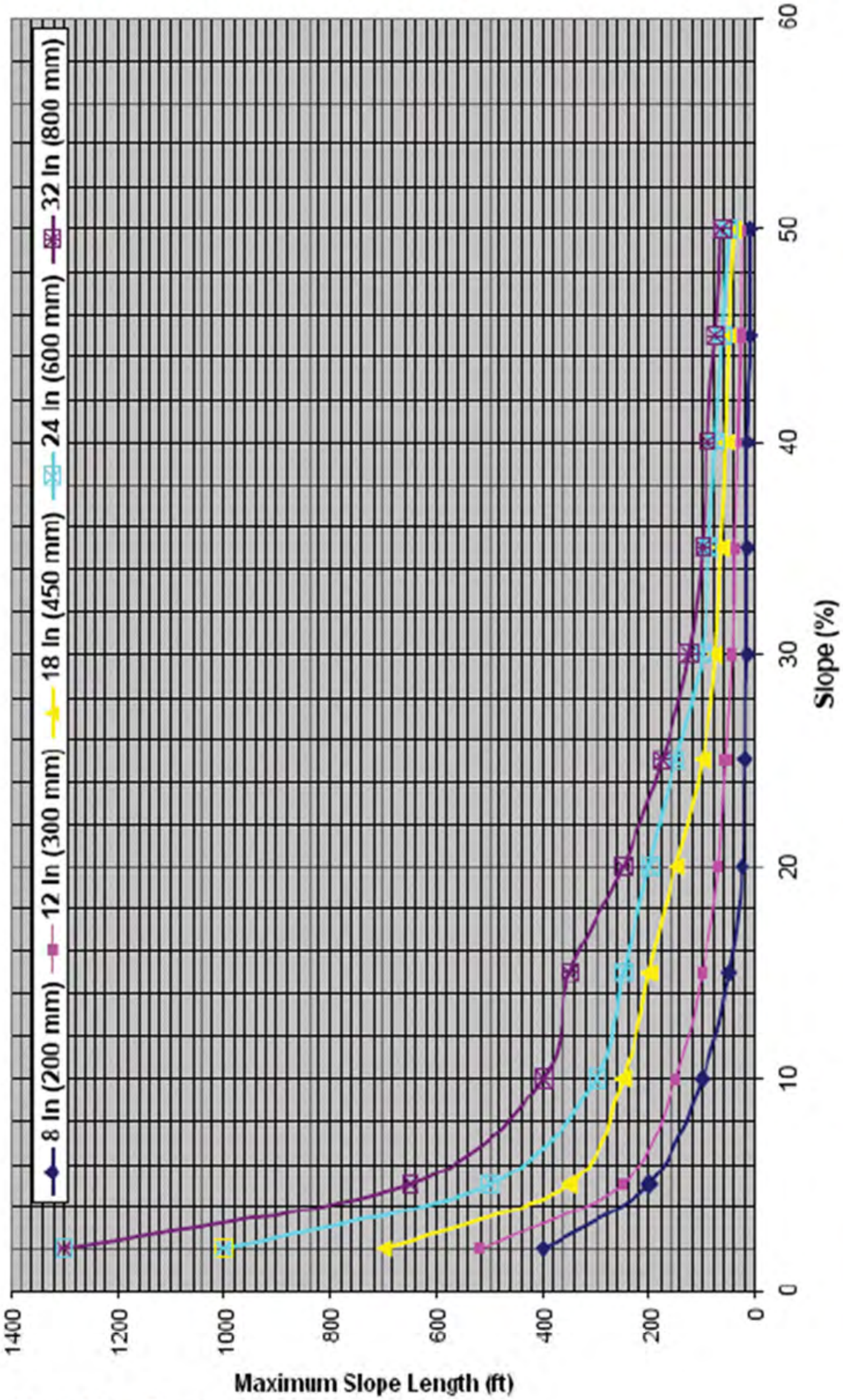
STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-022-007	18 in	SEE MAP	16.3%	98
REL-CFS-022-008	18 in	SEE MAP	16.3%	98
REL-CFS-022-009	18 in	SEE MAP	16.3%	98
REL-CFS-022-010	12 in	SEE MAP	9.7%	62
REL-CFS-022-011	12 in	SEE MAP	9.7%	62
REL-CFS-022-012	12 in	SEE MAP	9.7%	62
REL-CFS-022-013	12 in	SEE MAP	9.7%	62
REL-CFS-022-014	12 in	SEE MAP	9.7%	62
REL-CFS-022-015	12 in	SEE MAP	9.7%	62
REL-CFS-022-016	12 in	SEE MAP	9.0%	89
REL-CFS-022-017	12 in	SEE MAP	9.0%	89
REL-CFS-022-018	12 in	SEE MAP	9.0%	89
REL-CFS-022-019	12 in	SEE MAP	5.7%	87
REL-CFS-022-020	12 in	SEE MAP	5.7%	87
REL-CFS-022-021	18 in	SEE MAP	3.0%	461
REL-CFS-022-022	18 in	SEE MAP	3.0%	461
REL-CFS-022-023	18 in	SEE MAP	3.0%	461
REL-CFS-022-024	18 in	SEE MAP	3.0%	461
REL-CFS-022-025	18 in	SEE MAP	3.0%	461
REL-CFS-022-026	18 in	SEE MAP	3.0%	461
REL-CFS-022-027	18 in	SEE MAP	3.0%	461
REL-CFS-022-028	18 in	SEE MAP	3.0%	461
REL-CFS-022-029	18 in	SEE MAP	3.0%	461
REL-CFS-022-030	18 in	SEE MAP	3.0%	461
REL-CFS-022-031	18 in	SEE MAP	3.0%	461
REL-CFS-022-032	18 in	SEE MAP	3.0%	461
REL-CFS-022-033	18 in	SEE MAP	3.0%	461
REL-CFS-022-034	12 in	SEE MAP	2.4%	332
REL-CFS-022-035	12 in	SEE MAP	2.4%	332
REL-CFS-022-036	12 in	SEE MAP	2.4%	332
REL-CFS-022-037	12 in	SEE MAP	2.4%	332
REL-CFS-022-038	12 in	SEE MAP	2.4%	332
REL-CFS-022-039	12 in	SEE MAP	2.4%	332
REL-CFS-022-040	12 in	SEE MAP	2.4%	332
REL-CFS-022-041	12 in	SEE MAP	2.4%	332
REL-CFS-022-042	12 in	SEE MAP	2.4%	332
REL-CFS-022-043	12 in	SEE MAP	2.4%	332
REL-CFS-022-044	12 in	SEE MAP	2.4%	332
REL-CFS-022-045	12 in	SEE MAP	2.4%	332
REL-CFS-022-046	12 in	SEE MAP	2.4%	332
REL-CFS-022-047	12 in	SEE MAP	2.4%	332

STANDARD E&S WORKSHEET #1
Compost Filter Socks

REL-CFS-022-048	12 in	SEE MAP	2.4%	332
REL-CFS-022-049	12 in	SEE MAP	2.4%	332
REL-CFS-022-050	18 in	SEE MAP	3.5%	453
REL-CFS-022-051	18 in	SEE MAP	3.5%	453
REL-CFS-022-052	18 in	SEE MAP	3.5%	453
REL-CFS-022-053	18 in	SEE MAP	3.5%	453
REL-CFS-022-054	18 in	SEE MAP	3.5%	453
REL-CFS-022-055	18 in	SEE MAP	3.5%	453
REL-CFS-022-056	18 in	SEE MAP	3.5%	453
REL-CFS-022-057	18 in	SEE MAP	3.5%	453
REL-CFS-022-058	18 in	SEE MAP	3.5%	453
REL-CFS-022-059	18 in	SEE MAP	3.5%	453
REL-CFS-022-060	18 in	SEE MAP	3.5%	453

FIGURE 4.2
MAXIMUM PERMISSIBLE SLOPE LENGTH ABOVE COMPOST FILTER SOCKS



NOTE: 8" diameter socks should only be used to control small (≤ ¼ acre) disturbed areas on individual house lots).

Adapted from Filtrexx

ATTACHMENT 3.2

CN TABLE

Table 2-2a Runoff curve numbers for urban areas [1/]

Cover description: Cover type and hydrologic condition	Average percent impervious area [2/]	Curve numbers for hydrologic soil group: A	B	C	D
Fully developed urban areas (vegetation established)					
Open space (lawns, parks, golf courses, cemeteries, etc.) [3/]:					
Poor condition (grass cover < 50%)		68	79	86	89
Fair condition (grass cover 50% to 75%)		49	69	79	84
Good condition (grass cover > 75%)		39	61	74	80
Impervious areas:					
Paved parking lots, roofs, driveways, etc. (excluding right-of-way)		98	98	98	98
Streets and roads:					
Paved; curbs and storm sewers (excluding right-of-way)		98	98	98	98
Paved; open ditches (including right-of-way)		83	89	92	93
Gravel (including right-of-way)		76	85	89	91
Dirt (including right-of-way)		72	82	87	89
Western desert urban areas:					
Natural desert landscaping (pervious areas only) [4/]		63	77	85	88
Artificial desert landscaping (impervious weed barrier, desert shrub with 1- to 2-inch sand or gravel mulch and basin borders)		96	96	96	96
Urban districts:					
Commercial and business	85	89	92	94	95
Industrial	72	81	88	91	93
Residential districts by average lot size:					
1/8 acre or less (town houses)	65	77	85	90	92
1/4 acre	38	61	75	83	87
1/3 acre	30	57	72	81	86
1/2 acre	25	54	70	80	85
1 acre	20	51	68	79	84
2 acres	12	46	65	77	82
Developing urban areas					
Newly graded areas (pervious areas only, no vegetation) [5/]		77	86	91	94
Idle lands (CN's are determined using cover types similar to those in table 2-2c).					

[1] Average runoff condition, and $I_a = 0.2S$.

[2] The average percent impervious area shown was used to develop the composite CN's. Other assumptions are as follows: impervious areas are directly connected to the drainage system, impervious areas have a CN of 98, and pervious areas are considered equivalent to open space in good hydrologic condition. CN's for other combinations of conditions may be computed using figure 2-3 or 2-4.

[3] CN's shown are equivalent to those of pasture. Composite CN's may be computed for other combinations of open space cover type.

[4] Composite CN's for natural desert landscaping should be computed using figures 2-3 or 2-4 based on the impervious area percentage (CN = 98) and the pervious area CN. The pervious area CN's are assumed equivalent to desert shrub in poor hydrologic condition.

[5] Composite CN's to use for the design of temporary measures during grading and construction should be computed using figure 2-3 or 2-4 based on the degree of development (impervious area percentage) and the CN's for the newly graded pervious areas.

Table 2-2b Runoff curve numbers for cultivated agricultural lands [1/]

Cover description			Curve numbers for hydrologic soil group			
Cover type	Treatment [2/]	Hydrologic condition [3/]	A	B	C	D
Fallow	Bare soil	—	77	86	91	94
	Crop residue cover (CR)	Poor	76	85	90	93
		Good	74	83	88	90
Row crops	Straight row (SR)	Poor	72	81	88	91
		Good	67	78	85	89
	SR + CR	Poor	71	80	87	90
		Good	64	75	82	85
	Contoured (C)	Poor	70	79	84	88
		Good	65	75	82	86
	C + CR	Poor	69	78	83	87
		Good	64	74	81	85
	Contoured & terraced (C&T)	Poor	66	74	80	82
		Good	62	71	78	81
	C&T+ CR	Poor	65	73	79	81
		Good	61	70	77	80
Small grain	SR	Poor	65	76	84	88
		Good	63	75	83	87
	SR + CR	Poor	64	75	83	86
		Good	60	72	80	84
	C	Poor	63	74	82	85
		Good	61	73	81	84
	C + CR	Poor	62	73	81	84
		Good	60	72	80	83
	C&T	Poor	61	72	79	82
		Good	59	70	78	81
	C&T+ CR	Poor	60	71	78	81
		Good	58	69	77	80
Close-seeded or broadcast legumes or rotation meadow	SR	Poor	66	77	85	89
		Good	58	72	81	85
	C	Poor	64	75	83	85
		Good	55	69	78	83
	C&T	Poor	63	73	80	83
		Good	51	67	76	80

1 Average runoff condition, and I_a=0.2S
2 Crop residue cover applies only if residue is on at least 5% of the surface throughout the year.
3 Hydraulic condition is based on combination factors that affect infiltration and runoff, including (a) density and canopy of vegetative areas, (b) amount of year-round cover, (c) amount of grass or close-seeded legumes, (d) percent of residue cover on the land surface (good ≥ 20%), and (e) degree of surface roughness.

Poor: Factors impair infiltration and tend to increase runoff.

Good: Factors encourage average and better than average infiltration and tend to decrease runoff.

Table 2-2c Runoff curve numbers for other agricultural lands [1]

Cover description		Curve numbers for hydrologic soil group			
Cover type	Hydrologic condition	A	B	C	D
Pasture, grassland, or range—continuous forage for grazing. [2]	Poor	68	79	86	89
	Fair	49	69	79	84
	Good	39	61	74	80
Meadow—continuous grass, protected from grazing and generally mowed for hay.	—	30	58	71	78
Brush—brush-weed-grass mixture with brush the major element. [3]	Poor	48	67	77	83
	Fair	35	56	70	77
	Good	30 [4]	48	65	73
Woods—grass combination (orchard or tree farm). [5]	Poor	57	73	82	86
	Fair	43	65	76	82
	Good	32	58	72	79
Woods. [6]	Poor	45	66	77	83
	Fair	36	60	73	79
	Good	30 [4]	55	70	77
Farmsteads—buildings, lanes, driveways, and surrounding lots.	—	59	74	82	86

1 Average runoff condition, and $I_a = 0.2S$.
2 *Poor:* <50%) ground cover or heavily grazed with no mulch.
Fair: 50 to 75% ground cover and not heavily grazed.
Good: > 75% ground cover and lightly or only occasionally grazed.
3 *Poor:* <50% ground cover.
Fair: 50 to 75% ground cover.
Good: >75% ground cover.
4 Actual curve number is less than 30; use CN = 30 for runoff computations.
5 CN's shown were computed for areas with 50% woods and 50% grass (pasture) cover. Other combinations of conditions may be computed from the CN's for woods and pasture.
6 *Poor:* Forest litter, small trees, and brush are destroyed by heavy grazing or regular burning.
Fair: Woods are grazed but not burned, and some forest litter covers the soil.
Good: Woods are protected from grazing, and litter and brush adequately cover the soil.

Table 2-2d Runoff curve numbers for arid and semiarid rangelands [1/]

Cover description		Curve numbers for hydrologic soil group			
Cover type	Hydrologic condition [2/]	A [3/]	B	C	D
Herbaceous—mixture of grass, weeds, and low-growing brush, with brush the minor element.	Poor		80	87	93
	Fair		71	81	89
	Good		62	74	85
Oak-aspen—mountain brush mixture of oak brush, aspen, mountain mahogany, bitter brush, maple, and other brush.	Poor		66	74	79
	Fair		48	57	63
	Good		30	41	48
Pinyon-juniper—pinyon, juniper, or both; grass understory.	Poor		75	85	89
	Fair		58	73	80
	Good		41	61	71
Sagebrush with grass understory.	Poor		67	80	85
	Fair		51	63	70
	Good		35	47	55
Desert shrub—major plants include saltbush, greasewood, creosotebush, blackbrush, bursage, palo verde, mesquite, and cactus.	Poor	63	77	85	88
	Fair	55	72	81	86
	Good	49	68	79	84

1 Average runoff condition, and I_a, = 0.2S. For range in humid regions, use table 2-2c.
2 Poor: <30% ground cover (litter, grass, and brush overstory).
Fair: 30 to 70% ground cover.
Good: > 70% ground cover.
3 Curve numbers for group A have been developed only for desert shrub.

ATTACHMENT 3.3
CHANNEL DESIGN WORKSHEETS

STANDARD E&S WORKSHEET # 11
Channel Design Data

PROJECT NAME: Williams REAE – Regional Energy Lateral
LOCATION: Luzerne County, PA
PREPARED BY: CD DATE: 03/22/2021
CHECKED BY: KCC DATE: 03/22/2021

CHANNEL OR CHANNEL SECTION		REL-DC-001	REL-DC-001	REL-DC-002	REL-DC-002	REL-DC-003
TEMPORARY OR PERMANENT?	(T OR P)	T	T	T	T	T
DESIGN STORM	(2, 5, OR 10 YR)	2 YR	2 YR	2 YR	2 YR	2 YR
ACRES	(AC)	0.617	0.617	0.512	0.512	0.644
MULTIPLIER	(1.6, 2.25, or 2.75)[1]	N/A	N/A	N/A	N/A	N/A
Q_r (REQUIRED CAPACITY)	(CFS)	0.73	0.73	0.56	0.56	1.10
Q (CALCULATED AT FLOW DEPTH d)	(CFS)	0.73	0.76	0.56	0.56	1.16
PROTECTIVE LINING[2]		SC150BN	Vegetated	SC150BN	Vegetated	SC150BN
n (MANNING'S COEFFICIENT)[2]		0.050	0.093	0.050	0.080	0.050
V_a (ALLOWABLE VELOCITY)	(FPS)	8.0	15.0	8.0	15.0	8.0
V (CALCULATED AT FLOW DEPTH d)	(FPS)	1.1	0.7	1.2	0.9	2.0
τ_a (MAX ALLOWABLE SHEAR STRESS)	(LB/FT^2)	2.1	8.0	2.1	8.0	2.1
τ_d (CALC'D SHEAR STRESS AT FLOW DEPTH d)	(LB/FT^2)	0.2	0.2	0.2	0.3	0.6
CHANNEL BOTTOM WIDTH	(FT)	2	2	2	2	2
CHANNEL SIDE SLOPES	(H:V)	2	2	2	2	2
D (TOTAL DEPTH)	(FT)	1.0	1.0	0.75	0.75	0.75
CHANNEL TOP WIDTH @ D	(FT)	6.0	6.0	5.0	5.0	5.0
d (CALCULATED FLOW DEPTH)	(FT)	0.27	0.39	0.19	0.25	0.24
CHANNEL TOP WIDTH @ FLOW DEPTH d	(FT)	3.08	3.56	2.76	3.0	2.96
BOTTOM WIDTH: FLOW DEPTH RATIO	(12:1 MAX)	7.41	5.13	10.53	8.0	8.33
d_{50} STONE SIZE	(IN)	-	-	-	-	-
A (CROSS-SECTIONAL AREA)	(SQ. FT.)	0.686	1.084	0.452	0.625	0.595
R (HYDRAULIC RADIUS)	(FT)	0.214	0.290	0.159	0.200	0.194
S (BED SLOPE)[3]	(FT/FT)	0.010	0.010	0.020	0.020	0.038
S_c (CRITICAL SLOPE)	(FT/FT)	0.063	0.200	0.069	0.165	0.065
$.7S_c$	(FT/FT)	0.044	0.140	0.049	0.116	0.046
$1.3S_c$	(FT/FT)	0.082	0.260	0.090	0.215	0.085
STABLE FLOW?	(Y/N)	Y	Y	Y	Y	Y
FREEBOARD BASED ON UNSTABLE FLOW	(FT)	-	-	-	-	-
FREEBOARD BASED ON STABLE FLOW	(FT)	0.1	0.1	0.05	0.06	0.06
MINIMUM REQUIRED FREEBOARD[4]	(FT)	0.5	0.5	0.5	0.5	0.5
DESIGN METHOD FOR PROTECTIVE LINING [5] PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)		V	V	V	V	V

1. Use 1.6 for Temporary Channels; 2.25 for Temporary Channels in Special Protection (HQ or EV) Watersheds; 2.75 for Permanent Channels. For Rational Method, enter "N/A" and attach E&S Worksheets 9 and 10. For TR-55 enter "N/A" and attach appropriate Worksheets.
2. Adjust "n" value for changes in channel liner and flow depth. For vegetated channels, provide data for manufactured linings without vegetation and with vegetation in separate columns.
3. Slopes may not be averaged.
4. Minimum Freeboard is 0.5 ft. or ¼ Total Channel Depth, whichever is greater
5. Permissible velocity lining design method is not acceptable for channels with a bed slope of 10% or greater. Shear stress lining design method is required for channels with a bed slope of 10% or greater. Shear stress lining design method may be used for any channel bed slope.

CHANNEL OR CHANNEL SECTION	REL-DC-003	REL-DC-004	REL-DC-004	REL-DC-005	REL-DC-005
TEMPORARY OR PERMANENT? (T OR P)	T	T	T	T	T
DESIGN STORM (2, 5, OR 10 YR)	2 YR	2 YR	2 YR	2 YR	2 YR
ACRES (AC)	0.644	2.708	2.708	4.758	4.758
MULTIPLIER (1.6, 2.25, or 2.75)[1]	N/A	N/A	N/A	N/A	N/A
Q_r (REQUIRED CAPACITY) (CFS)	1.10	3.52	3.52	5.09	5.09
Q (CALCULATED AT FLOW DEPTH d) (CFS)	1.12	3.57	3.62	5.15	5.09
PROTECTIVE LINING[2]	Vegetated	SC150BN	Vegetated	SC150BN	Vegetated
n (MANNING'S COEFFICIENT)[2]	0.064	0.047	0.061	0.044	0.068
V_a (ALLOWABLE VELOCITY) (FPS)	15.0	8.0	15.0	8.0	15.0
V (CALCULATED AT FLOW DEPTH d) (FPS)	1.6	2.3	1.9	2.2	1.6
τ_a (MAX ALLOWABLE SHEAR STRESS) (LB/FT^2)	8.0	2.1	8.0	2.1	8.0
τ_d (CALC'D SHEAR STRESS AT FLOW DEPTH d) (LB/FT^2)	0.6	0.7	0.8	0.5	0.6
CHANNEL BOTTOM WIDTH (FT)	2	2	2	2	2
CHANNEL SIDE SLOPES (H:V)	2	2	2	2	2
D (TOTAL DEPTH) (FT)	1.0	1.25	1.25	1.25	1.50
CHANNEL TOP WIDTH @ D (FT)	6.0	7.0	7.0	7.0	8.0
d (CALCULATED FLOW DEPTH) (FT)	0.27	0.51	0.59	0.69	0.86
CHANNEL TOP WIDTH @ FLOW DEPTH d (FT)	3.08	4.04	4.36	4.76	5.42
BOTTOM WIDTH: FLOW DEPTH RATIO (12:1 MAX)	7.41	3.92	3.39	2.90	2.34
d_{50} STONE SIZE (IN)	-	-	-	-	-
A (CROSS-SECTIONAL AREA) (SQ. FT.)	0.686	1.540	1.876	2.332	3.176
R (HYDRAULIC RADIUS) (FT)	0.214	0.360	0.404	0.459	0.545
S (BED SLOPE)[3] (FT/FT)	0.038	0.021	0.021	0.012	0.012
S_c (CRITICAL SLOPE) (FT/FT)	0.102	0.048	0.078	0.039	0.089
$.7S_c$ (FT/FT)	0.072	0.034	0.055	0.027	0.062
$1.3S_c$ (FT/FT)	0.133	0.062	0.101	0.051	0.115
STABLE FLOW? (Y/N)	Y	Y	Y	Y	Y
FREEBOARD BASED ON UNSTABLE FLOW (FT)	-	-	-	-	-
FREEBOARD BASED ON STABLE FLOW (FT)	0.07	0.1	0.1	0.2	0.2
MINIMUM REQUIRED FREEBOARD[4] (FT)	0.5	0.5	0.5	0.5	0.5
DESIGN METHOD FOR PROTECTIVE LINING [5] PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)	V	V	V	V	V

1. Use 1.6 for Temporary Channels; 2.25 for Temporary Channels in Special Protection (HQ or EV) Watersheds; 2.75 for Permanent Channels. For Rational Method, enter "N/A" and attach E&S Worksheets 9 and 10. For TR-55 enter "N/A" and attach appropriate Worksheets.
2. Adjust "n" value for changes in channel liner and flow depth. For vegetated channels, provide data for manufactured linings without vegetation and with vegetation in separate columns.
3. Slopes may not be averaged.
4. Minimum Freeboard is 0.5 ft. or ¼ Total Channel Depth, whichever is greater
5. Permissible velocity lining design method is not acceptable for channels with a bed slope of 10% or greater. Shear stress lining design method is required for channels with a bed slope of 10% or greater. Shear stress lining design method may be used for any channel bed slope.

CHANNEL OR CHANNEL SECTION		REL-DC-006	REL-DC-006	REL-DC-007	REL-DC-007	REL-DC-008
TEMPORARY OR PERMANENT?	(T OR P)	T	T	T	T	T
DESIGN STORM	(2, 5, OR 10 YR)	2 YR	2 YR	2 YR	2 YR	2 YR
ACRES	(AC)	3.323	3.323	1.548	1.548	2.563
MULTIPLIER	(1.6, 2.25, or 2.75)[1]	N/A	N/A	N/A	N/A	N/A
Q_r (REQUIRED CAPACITY)	(CFS)	3.02	3.02	1.59	1.59	3.18
Q (CALCULATED AT FLOW DEPTH d)	(CFS)	3.08	3.09	1.71	1.65	3.29
PROTECTIVE LINING[2]		SC150BN	Vegetated	SC150BN	Vegetated	SC150BN
n (MANNING'S COEFFICIENT)[2]		0.050	0.066	0.050	0.048	0.047
V_a (ALLOWABLE VELOCITY)	(FPS)	8.0	15.0	8.0	15.0	8.0
V (CALCULATED AT FLOW DEPTH d)	(FPS)	2.1	1.7	2.0	1.5	2.0
τ_a (MAX ALLOWABLE SHEAR STRESS)	(LB/FT^2)	2.1	8.0	2.1	8.0	2.1
τ_d (CALC'D SHEAR STRESS AT FLOW DEPTH d)	(LB/FT^2)	0.6	0.7	1.4	1.3	0.5
CHANNEL BOTTOM WIDTH	(FT)	2	2	2	2	2
CHANNEL SIDE SLOPES	(H:V)	2	2	2	2	2
D (TOTAL DEPTH)	(FT)	1.0	1.25	0.75	0.75	1.25
CHANNEL TOP WIDTH @ D	(FT)	6.0	7.0	5.0	5.0	7.0
d (CALCULATED FLOW DEPTH)	(FT)	0.50	0.58	0.23	0.22	0.53
CHANNEL TOP WIDTH @ FLOW DEPTH d	(FT)	4.0	4.32	2.92	2.88	4.12
BOTTOM WIDTH: FLOW DEPTH RATIO	(12:1 MAX)	4.0	3.45	8.70	9.09	3.77
d_{50} STONE SIZE	(IN)	-	-	-	-	-
A (CROSS-SECTIONAL AREA)	(SQ. FT.)	1.500	1.833	0.566	0.537	1.622
R (HYDRAULIC RADIUS)	(FT)	0.354	0.399	0.187	0.180	0.371
S (BED SLOPE)[3]	(FT/FT)	0.019	0.019	0.097	0.097	0.015
S_c (CRITICAL SLOPE)	(FT/FT)	0.054	0.092	0.066	0.062	0.047
$.7S_c$	(FT/FT)	0.038	0.064	0.046	0.043	0.033
$1.3S_c$	(FT/FT)	0.071	0.119	0.086	0.080	0.062
STABLE FLOW?	(Y/N)	Y	Y	Y	Y	Y
FREEBOARD BASED ON UNSTABLE FLOW	(FT)	-	-	-	-	-
FREEBOARD BASED ON STABLE FLOW	(FT)	0.1	0.1	0.06	0.06	0.1
MINIMUM REQUIRED FREEBOARD[4]	(FT)	0.5	0.5	0.5	0.5	0.5
DESIGN METHOD FOR PROTECTIVE LINING [5] PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)		V	V	V	V	V

1. Use 1.6 for Temporary Channels; 2.25 for Temporary Channels in Special Protection (HQ or EV) Watersheds; 2.75 for Permanent Channels. For Rational Method, enter "N/A" and attach E&S Worksheets 9 and 10. For TR-55 enter "N/A" and attach appropriate Worksheets.
2. Adjust "n" value for changes in channel liner and flow depth. For vegetated channels, provide data for manufactured linings without vegetation and with vegetation in separate columns.
3. Slopes may not be averaged.
4. Minimum Freeboard is 0.5 ft. or ¼ Total Channel Depth, whichever is greater
5. Permissible velocity lining design method is not acceptable for channels with a bed slope of 10% or greater. Shear stress lining design method is required for channels with a bed slope of 10% or greater. Shear stress lining design method may be used for any channel bed slope.

CHANNEL OR CHANNEL SECTION		REL-DC-008	REL-DC-009	REL-DC-009	REL-DC-010	REL-DC-010
TEMPORARY OR PERMANENT?	(T OR P)	T	T	T	T	T
DESIGN STORM	(2, 5, OR 10 YR)	2 YR	2 YR	2 YR	2 YR	2 YR
ACRES	(AC)	2.563	2.220	2.220	5.884	5.884
MULTIPLIER	(1.6, 2.25, or 2.75)[1]	N/A	N/A	N/A	N/A	N/A
Q_r (REQUIRED CAPACITY)	(CFS)	3.18	2.49	2.49	7.74	7.74
Q (CALCULATED AT FLOW DEPTH d)	(CFS)	3.25	2.54	2.52	7.79	7.75
PROTECTIVE LINING[2]		Vegetated	SC150BN	Vegetated	SC150BN	Vegetated
n (MANNING'S COEFFICIENT)[2]		0.070	0.050	0.060	0.048	0.041
V_a (ALLOWABLE VELOCITY)	(FPS)	15.0	8.0	15.0	8.0	15.0
V (CALCULATED AT FLOW DEPTH d)	(FPS)	1.5	2.3	2.0	4.0	4.4
τ_a (MAX ALLOWABLE SHEAR STRESS)	(LB/FT^2)	8.0	2.1	8.0	2.1	8.0
τ_d (CALC'D SHEAR STRESS AT FLOW DEPTH d)	(LB/FT^2)	0.6	0.7	0.8	2.0	1.9
CHANNEL BOTTOM WIDTH	(FT)	2	2	2	2	2
CHANNEL SIDE SLOPES	(H:V)	2	2	2	2	2
D (TOTAL DEPTH)	(FT)	1.25	1.0	1.0	1.25	1.25
CHANNEL TOP WIDTH @ D	(FT)	7.0	6.0	6.0	7.0	7.0
d (CALCULATED FLOW DEPTH)	(FT)	0.65	0.40	0.44	0.61	0.56
CHANNEL TOP WIDTH @ FLOW DEPTH d	(FT)	4.6	3.6	3.76	4.44	4.24
BOTTOM WIDTH: FLOW DEPTH RATIO	(12:1 MAX)	3.08	5.0	4.55	3.28	3.57
d_{50} STONE SIZE	(IN)	-	-	-	-	-
A (CROSS-SECTIONAL AREA)	(SQ. FT.)	2.145	1.120	1.267	1.964	1.747
R (HYDRAULIC RADIUS)	(FT)	0.437	0.296	0.319	0.415	0.388
S (BED SLOPE)[3]	(FT/FT)	0.015	0.030	0.030	0.053	0.053
S_c (CRITICAL SLOPE)	(FT/FT)	0.100	0.057	0.081	0.048	0.036
$.7S_c$	(FT/FT)	0.070	0.040	0.057	0.034	0.025
$1.3S_c$	(FT/FT)	0.130	0.075	0.105	0.062	0.046
STABLE FLOW?	(Y/N)	Y	Y	Y	N	Y
FREEBOARD BASED ON UNSTABLE FLOW	(FT)	-	-	-	0.18	-
FREEBOARD BASED ON STABLE FLOW	(FT)	0.2	0.1	0.1	-	0.1
MINIMUM REQUIRED FREEBOARD[4]	(FT)	0.5	0.5	0.5	0.5	0.5
DESIGN METHOD FOR PROTECTIVE LINING [5] PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)		V	V	V	V	V

1. Use 1.6 for Temporary Channels; 2.25 for Temporary Channels in Special Protection (HQ or EV) Watersheds; 2.75 for Permanent Channels. For Rational Method, enter "N/A" and attach E&S Worksheets 9 and 10. For TR-55 enter "N/A" and attach appropriate Worksheets.
2. Adjust "n" value for changes in channel liner and flow depth. For vegetated channels, provide data for manufactured linings without vegetation and with vegetation in separate columns.
3. Slopes may not be averaged.
4. Minimum Freeboard is 0.5 ft. or ¼ Total Channel Depth, whichever is greater
5. Permissible velocity lining design method is not acceptable for channels with a bed slope of 10% or greater. Shear stress lining design method is required for channels with a bed slope of 10% or greater. Shear stress lining design method may be used for any channel bed slope.

CHANNEL OR CHANNEL SECTION		REL-DC-011	REL-DC-011	REL-DC-012	REL-DC-012	REL-DC-013
TEMPORARY OR PERMANENT?	(T OR P)	T	T	T	T	T
DESIGN STORM	(2, 5, OR 10 YR)	2 YR	2 YR	2 YR	2 YR	2 YR
ACRES	(AC)	1.358	1.358	2.956	2.956	1.215
MULTIPLIER	(1.6, 2.25, or 2.75)[1]	N/A	N/A	N/A	N/A	N/A
Q_r (REQUIRED CAPACITY)	(CFS)	2.07	2.07	2.78	2.78	1.29
Q (CALCULATED AT FLOW DEPTH d)	(CFS)	2.11	2.11	2.84	2.87	1.30
PROTECTIVE LINING[2]		SC150BN	Vegetated	SC150BN	Vegetated	SC150BN
n (MANNING'S COEFFICIENT)[2]		0.050	0.069	0.050	0.065	0.050
V_a (ALLOWABLE VELOCITY)	(FPS)	8.0	15.0	8.0	15.0	8.0
V (CALCULATED AT FLOW DEPTH d)	(FPS)	1.8	1.4	2.2	1.9	1.7
τ_a (MAX ALLOWABLE SHEAR STRESS)	(LB/FT^2)	2.1	8.0	2.1	8.0	2.1
τ_d (CALC'D SHEAR STRESS AT FLOW DEPTH d)	(LB/FT^2)	0.4	0.5	0.7	0.8	0.4
CHANNEL BOTTOM WIDTH	(FT)	2	2	2	2	2
CHANNEL SIDE SLOPES	(H:V)	2	2	2	2	2
D (TOTAL DEPTH)	(FT)	1.0	1.0	1.0	1.25	1.0
CHANNEL TOP WIDTH @ D	(FT)	6.0	6.0	6.0	7.0	6.0
d (CALCULATED FLOW DEPTH)	(FT)	0.42	0.50	0.44	0.51	0.30
CHANNEL TOP WIDTH @ FLOW DEPTH d	(FT)	3.68	4.0	3.76	4.04	3.2
BOTTOM WIDTH: FLOW DEPTH RATIO	(12:1 MAX)	4.76	4.0	4.55	3.92	6.67
d_{50} STONE SIZE	(IN)	-	-	-	-	-
A (CROSS-SECTIONAL AREA)	(SQ. FT.)	1.193	1.50	1.267	1.540	0.780
R (HYDRAULIC RADIUS)	(FT)	0.308	0.354	0.319	0.360	0.233
S (BED SLOPE)[3]	(FT/FT)	0.017	0.017	0.026	0.026	0.022
S_c (CRITICAL SLOPE)	(FT/FT)	0.057	0.104	0.056	0.092	0.062
$.7S_c$	(FT/FT)	0.040	0.073	0.039	0.064	0.043
$1.3S_c$	(FT/FT)	0.074	0.135	0.073	0.119	0.080
STABLE FLOW?	(Y/N)	Y	Y	Y	Y	Y
FREEBOARD BASED ON UNSTABLE FLOW	(FT)	-	-	-	-	-
FREEBOARD BASED ON STABLE FLOW	(FT)	0.1	0.1	0.1	0.1	0.1
MINIMUM REQUIRED FREEBOARD[4]	(FT)	0.5	0.5	0.5	0.5	0.5
DESIGN METHOD FOR PROTECTIVE LINING [5] PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)		V	V	V	V	V

1. Use 1.6 for Temporary Channels; 2.25 for Temporary Channels in Special Protection (HQ or EV) Watersheds; 2.75 for Permanent Channels. For Rational Method, enter "N/A" and attach E&S Worksheets 9 and 10. For TR-55 enter "N/A" and attach appropriate Worksheets.
2. Adjust "n" value for changes in channel liner and flow depth. For vegetated channels, provide data for manufactured linings without vegetation and with vegetation in separate columns.
3. Slopes may not be averaged.
4. Minimum Freeboard is 0.5 ft. or ¼ Total Channel Depth, whichever is greater
5. Permissible velocity lining design method is not acceptable for channels with a bed slope of 10% or greater. Shear stress lining design method is required for channels with a bed slope of 10% or greater. Shear stress lining design method may be used for any channel bed slope.

CHANNEL OR CHANNEL SECTION	REL-DC-013	REL-DC-014	REL-DC-014	REL-DC-015	REL-DC-015
TEMPORARY OR PERMANENT? (T OR P)	T	T	T	T	T
DESIGN STORM (2, 5, OR 10 YR)	2 YR	2 YR	2 YR	2 YR	2 YR
ACRES (AC)	1.215	1.156	1.156	7.382	7.382
MULTIPLIER (1.6, 2.25, or 2.75)[1]	N/A	N/A	N/A	N/A	N/A
Q_r (REQUIRED CAPACITY) (CFS)	1.29	1.23	1.23	7.93	7.93
Q (CALCULATED AT FLOW DEPTH d) (CFS)	1.30	1.27	1.26	8.08	7.99
PROTECTIVE LINING[2]	Vegetated	SC150BN	Vegetated	SC150BN	Vegetated
n (MANNING'S COEFFICIENT)[2]	0.073	0.050	0.070	0.047	0.055
V_a (ALLOWABLE VELOCITY) (FPS)	15.0	8.0	15.0	8.0	15.0
V (CALCULATED AT FLOW DEPTH d) (FPS)	1.3	1.6	1.3	2.9	2.5
τ_a (MAX ALLOWABLE SHEAR STRESS) (LB/FT^2)	8.0	2.1	8.0	2.1	8.0
τ_d (CALC'D SHEAR STRESS AT FLOW DEPTH d) (LB/FT^2)	0.5	0.4	0.5	1.0	1.1
CHANNEL BOTTOM WIDTH (FT)	2	2	2	2	2
CHANNEL SIDE SLOPES (H:V)	2	2	2	2	2
D (TOTAL DEPTH) (FT)	1.0	1.0	1.0	1.5	1.5
CHANNEL TOP WIDTH @ D (FT)	6.0	6.0	6.0	8.0	8.0
d (CALCULATED FLOW DEPTH) (FT)	0.37	0.30	0.36	0.79	0.85
CHANNEL TOP WIDTH @ FLOW DEPTH d (FT)	3.48	3.2	3.44	5.16	5.4
BOTTOM WIDTH: FLOW DEPTH RATIO (12:1 MAX)	5.41	6.67	5.56	2.53	2.35
d_{50} STONE SIZE (IN)	-	-	-	-	-
A (CROSS-SECTIONAL AREA) (SQ. FT.)	1.014	0.780	0.979	2.828	3.145
R (HYDRAULIC RADIUS) (FT)	0.277	0.233	0.271	0.511	0.542
S (BED SLOPE)[3] (FT/FT)	0.022	0.021	0.021	0.020	0.020
S_c (CRITICAL SLOPE) (FT/FT)	0.125	0.062	0.116	0.043	0.058
$.7S_c$ (FT/FT)	0.087	0.043	0.081	0.030	0.041
$1.3S_c$ (FT/FT)	0.162	0.080	0.150	0.056	0.075
STABLE FLOW? (Y/N)	Y	Y	Y	Y	Y
FREEBOARD BASED ON UNSTABLE FLOW (FT)	-	-	-	-	-
FREEBOARD BASED ON STABLE FLOW (FT)	0.1	0.1	0.1	0.2	0.2
MINIMUM REQUIRED FREEBOARD[4] (FT)	0.5	0.5	0.5	0.5	0.5
DESIGN METHOD FOR PROTECTIVE LINING [5] PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)	V	V	V	V	V

1. Use 1.6 for Temporary Channels; 2.25 for Temporary Channels in Special Protection (HQ or EV) Watersheds; 2.75 for Permanent Channels. For Rational Method, enter "N/A" and attach E&S Worksheets 9 and 10. For TR-55 enter "N/A" and attach appropriate Worksheets.
2. Adjust "n" value for changes in channel liner and flow depth. For vegetated channels, provide data for manufactured linings without vegetation and with vegetation in separate columns.
3. Slopes may not be averaged.
4. Minimum Freeboard is 0.5 ft. or ¼ Total Channel Depth, whichever is greater
5. Permissible velocity lining design method is not acceptable for channels with a bed slope of 10% or greater. Shear stress lining design method is required for channels with a bed slope of 10% or greater. Shear stress lining design method may be used for any channel bed slope.

CHANNEL OR CHANNEL SECTION		REL-DC-016	REL-DC-016	REL-DC-017	REL-DC-017	REL-DC-018
TEMPORARY OR PERMANENT?	(T OR P)	T	T	T	T	T
DESIGN STORM	(2, 5, OR 10 YR)	2 YR	2 YR	2 YR	2 YR	2 YR
ACRES	(AC)	5.385	5.385	3.032	3.032	1.762
MULTIPLIER	(1.6, 2.25, or 2.75)[1]	N/A	N/A	N/A	N/A	N/A
Q_r (REQUIRED CAPACITY)	(CFS)	5.68	5.68	2.94	2.94	1.24
Q (CALCULATED AT FLOW DEPTH d)	(CFS)	5.83	5.78	2.95	2.95	1.31
PROTECTIVE LINING[2]		SC150BN	Vegetated	SC150BN	Vegetated	SC150BN
n (MANNING'S COEFFICIENT)[2]		0.048	0.050	0.050	0.055	0.050
V_a (ALLOWABLE VELOCITY)	(FPS)	8.0	15.0	8.0	15.0	8.0
V (CALCULATED AT FLOW DEPTH d)	(FPS)	3.3	3.2	2.9	2.7	2.0
τ_a (MAX ALLOWABLE SHEAR STRESS)	(LB/FT^2)	2.1	8.0	2.1	8.0	2.1
τ_d (CALC'D SHEAR STRESS AT FLOW DEPTH d)	(LB/FT^2)	1.4	1.5	1.2	1.3	0.6
CHANNEL BOTTOM WIDTH	(FT)	2	2	2	2	2
CHANNEL SIDE SLOPES	(H:V)	2	2	2	2	2
D (TOTAL DEPTH)	(FT)	1.25	1.25	1.0	1.0	1.0
CHANNEL TOP WIDTH @ D	(FT)	7.0	7.0	6.0	6.0	6.0
d (CALCULATED FLOW DEPTH)	(FT)	0.56	0.57	0.37	0.39	0.26
CHANNEL TOP WIDTH @ FLOW DEPTH d	(FT)	4.24	4.28	3.48	3.56	3.04
BOTTOM WIDTH: FLOW DEPTH RATIO	(12:1 MAX)	3.57	3.51	5.41	5.13	7.69
d_{50} STONE SIZE	(IN)	-	-	-	-	-
A (CROSS-SECTIONAL AREA)	(SQ. FT.)	1.747	1.790	1.014	1.084	0.655
R (HYDRAULIC RADIUS)	(FT)	0.388	0.393	0.277	0.290	0.207
S (BED SLOPE)[3]	(FT/FT)	0.041	0.041	0.053	0.053	0.037
S_c (CRITICAL SLOPE)	(FT/FT)	0.049	0.053	0.059	0.070	0.064
$.7S_c$	(FT/FT)	0.034	0.037	0.041	0.049	0.045
$1.3S_c$	(FT/FT)	0.064	0.069	0.076	0.091	0.083
STABLE FLOW?	(Y/N)	N	N	N	N	Y
FREEBOARD BASED ON UNSTABLE FLOW	(FT)	0.14	0.14	0.1	0.1	-
FREEBOARD BASED ON STABLE FLOW	(FT)	-	-	-	-	0.1
MINIMUM REQUIRED FREEBOARD[4]	(FT)	0.5	0.5	0.5	0.5	0.5
DESIGN METHOD FOR PROTECTIVE LINING[5] PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)		V	V	V	V	V

1. Use 1.6 for Temporary Channels; 2.25 for Temporary Channels in Special Protection (HQ or EV) Watersheds; 2.75 for Permanent Channels. For Rational Method, enter "N/A" and attach E&S Worksheets 9 and 10. For TR-55 enter "N/A" and attach appropriate Worksheets.
2. Adjust "n" value for changes in channel liner and flow depth. For vegetated channels, provide data for manufactured linings without vegetation and with vegetation in separate columns.
3. Slopes may not be averaged.
4. Minimum Freeboard is 0.5 ft. or ¼ Total Channel Depth, whichever is greater
5. Permissible velocity lining design method is not acceptable for channels with a bed slope of 10% or greater. Shear stress lining design method is required for channels with a bed slope of 10% or greater. Shear stress lining design method may be used for any channel bed slope.

CHANNEL OR CHANNEL SECTION		REL-DC-018	REL-DC-019	REL-DC-019	REL-DC-020	REL-DC-020
TEMPORARY OR PERMANENT?	(T OR P)	T	T	T	T	T
DESIGN STORM	(2, 5, OR 10 YR)	2 YR	2 YR	2 YR	2 YR	2 YR
ACRES	(AC)	1.762	4.837	4.837	10.277	10.277
MULTIPLIER	(1.6, 2.25, or 2.75)[1]	N/A	N/A	N/A	N/A	N/A
Q_r (REQUIRED CAPACITY)	(CFS)	1.24	2.46	2.46	5.78	5.78
Q (CALCULATED AT FLOW DEPTH d)	(CFS)	1.24	2.55	2.52	5.87	5.78
PROTECTIVE LINING[2]		Vegetated	SC150BN	Vegetated	SC150BN	Vegetated
n (MANNING'S COEFFICIENT)[2]		0.064	0.050	0.069	0.042	0.069
V_a (ALLOWABLE VELOCITY)	(FPS)	15.0	8.0	15.0	8.0	15.0
V (CALCULATED AT FLOW DEPTH d)	(FPS)	1.7	2.0	1.6	2.0	1.4
τ_a (MAX ALLOWABLE SHEAR STRESS)	(LB/FT^2)	8.0	2.1	8.0	2.1	8.0
τ_d (CALC'D SHEAR STRESS AT FLOW DEPTH d)	(LB/FT^2)	0.7	0.3	0.7	0.4	0.5
CHANNEL BOTTOM WIDTH	(FT)	2	2	2	2	2
CHANNEL SIDE SLOPES	(H:V)	2	2	2	2	2
D (TOTAL DEPTH)	(FT)	1.0	1.0	1.25	1.50	1.75
CHANNEL TOP WIDTH @ D	(FT)	6.0	6.0	7.0	8.0	9.0
d (CALCULATED FLOW DEPTH)	(FT)	0.29	0.44	0.52	0.80	1.02
CHANNEL TOP WIDTH @ FLOW DEPTH d	(FT)	3.16	3.76	4.08	5.2	6.06
BOTTOM WIDTH: FLOW DEPTH RATIO	(12:1 MAX)	6.9	4.55	3.85	2.50	1.97
d_{50} STONE SIZE	(IN)	-	-	-	-	-
A (CROSS-SECTIONAL AREA)	(SQ. FT.)	0.748	1.267	1.581	2.880	4.099
R (HYDRAULIC RADIUS)	(FT)	0.227	0.319	0.365	0.516	0.626
S (BED SLOPE)[3]	(FT/FT)	0.037	0.021	0.021	0.008	0.008
S_c (CRITICAL SLOPE)	(FT/FT)	0.102	0.056	0.103	0.034	0.087
$.7S_c$	(FT/FT)	0.071	0.039	0.072	0.024	0.061
$1.3S_c$	(FT/FT)	0.133	0.073	0.134	0.045	0.114
STABLE FLOW?	(Y/N)	Y	Y	Y	Y	Y
FREEBOARD BASED ON UNSTABLE FLOW	(FT)	-	-	-	-	-
FREEBOARD BASED ON STABLE FLOW	(FT)	0.1	0.1	0.1	0.2	0.25
MINIMUM REQUIRED FREEBOARD[4]	(FT)	0.5	0.5	0.5	0.5	0.5
DESIGN METHOD FOR PROTECTIVE LINING [5] PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)		V	V	V	V	V

1. Use 1.6 for Temporary Channels; 2.25 for Temporary Channels in Special Protection (HQ or EV) Watersheds; 2.75 for Permanent Channels. For Rational Method, enter "N/A" and attach E&S Worksheets 9 and 10. For TR-55 enter "N/A" and attach appropriate Worksheets.
2. Adjust "n" value for changes in channel liner and flow depth. For vegetated channels, provide data for manufactured linings without vegetation and with vegetation in separate columns.
3. Slopes may not be averaged.
4. Minimum Freeboard is 0.5 ft. or ¼ Total Channel Depth, whichever is greater
5. Permissible velocity lining design method is not acceptable for channels with a bed slope of 10% or greater. Shear stress lining design method is required for channels with a bed slope of 10% or greater. Shear stress lining design method may be used for any channel bed slope.

CHANNEL OR CHANNEL SECTION		REL-DC-021	REL-DC-021	REL-DC-022	REL-DC-022	REL-DC-023
TEMPORARY OR PERMANENT?	(T OR P)	T	T	T	T	T
DESIGN STORM	(2, 5, OR 10 YR)	2 YR	2 YR	2 YR	2 YR	2 YR
ACRES	(AC)	5.665	5.665	8.951	8.951	1.550
MULTIPLIER	(1.6, 2.25, or 2.75)[1]	N/A	N/A	N/A	N/A	N/A
Q_r (REQUIRED CAPACITY)	(CFS)	3.22	3.22	11.60	11.60	1.46
Q (CALCULATED AT FLOW DEPTH d)	(CFS)	3.28	3.23	11.68	11.74	1.56
PROTECTIVE LINING[2]		SC150BN	Vegetated	SC150BN	Vegetated	SC150BN
n (MANNING'S COEFFICIENT)[2]		0.045	0.075	0.037	0.040	0.050
V_a (ALLOWABLE VELOCITY)	(FPS)	8.0	15.0	8.0	15.0	8.0
V (CALCULATED AT FLOW DEPTH d)	(FPS)	1.8	1.2	5.0	4.7	2.6
τ_a (MAX ALLOWABLE SHEAR STRESS)	(LB/FT^2)	2.1	8.0	2.1	8.0	2.1
τ_d (CALC'D SHEAR STRESS AT FLOW DEPTH d)	(LB/FT^2)	0.4	0.5	1.9	2.0	1.0
CHANNEL BOTTOM WIDTH	(FT)	2	2	2	2	2
CHANNEL SIDE SLOPES	(H:V)	2	2	2	2	2
D (TOTAL DEPTH)	(FT)	1.25	1.25	1.25	1.25	0.75
CHANNEL TOP WIDTH @ D	(FT)	7.0	7.0	7.0	7.0	5.0
d (CALCULATED FLOW DEPTH)	(FT)	0.58	0.75	0.69	0.72	0.24
CHANNEL TOP WIDTH @ FLOW DEPTH d	(FT)	4.32	5.0	4.76	4.88	2.96
BOTTOM WIDTH: FLOW DEPTH RATIO	(12:1 MAX)	3.45	2.67	2.90	2.78	8.33
d_{50} STONE SIZE	(IN)	-	-	-	-	-
A (CROSS-SECTIONAL AREA)	(SQ. FT.)	1.833	2.625	2.332	2.477	0.595
R (HYDRAULIC RADIUS)	(FT)	0.399	0.490	0.459	0.474	0.194
S (BED SLOPE)[3]	(FT/FT)	0.010	0.010	0.044	0.044	0.069
S_c (CRITICAL SLOPE)	(FT/FT)	0.043	0.111	0.028	0.032	0.065
$.7S_c$	(FT/FT)	0.030	0.078	0.019	0.022	0.046
$1.3S_c$	(FT/FT)	0.055	0.145	0.036	0.042	0.085
STABLE FLOW?	(Y/N)	Y	Y	Y	Y	N
FREEBOARD BASED ON UNSTABLE FLOW	(FT)	-	-	-	-	0.05
FREEBOARD BASED ON STABLE FLOW	(FT)	0.1	0.2	0.2	0.2	-
MINIMUM REQUIRED FREEBOARD[4]	(FT)	0.5	0.5	0.5	0.5	0.5
DESIGN METHOD FOR PROTECTIVE LINING[5] PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)		V	V	V	V	V

1. Use 1.6 for Temporary Channels; 2.25 for Temporary Channels in Special Protection (HQ or EV) Watersheds; 2.75 for Permanent Channels. For Rational Method, enter "N/A" and attach E&S Worksheets 9 and 10. For TR-55 enter "N/A" and attach appropriate Worksheets.
2. Adjust "n" value for changes in channel liner and flow depth. For vegetated channels, provide data for manufactured linings without vegetation and with vegetation in separate columns.
3. Slopes may not be averaged.
4. Minimum Freeboard is 0.5 ft. or ¼ Total Channel Depth, whichever is greater
5. Permissible velocity lining design method is not acceptable for channels with a bed slope of 10% or greater. Shear stress lining design method is required for channels with a bed slope of 10% or greater. Shear stress lining design method may be used for any channel bed slope.

CHANNEL OR CHANNEL SECTION		REL-DC-023	REL-DC-024	REL-DC-024	REL-DC-025	REL-DC-025
TEMPORARY OR PERMANENT?	(T OR P)	T	T	T	T	T
DESIGN STORM	(2, 5, OR 10 YR)	2 YR	2 YR	2 YR	2 YR	2 YR
ACRES	(AC)	1.550	3.041	3.041	1.374	1.374
MULTIPLIER	(1.6, 2.25, or 2.75)[1]	N/A	N/A	N/A	N/A	N/A
Q_r (REQUIRED CAPACITY)	(CFS)	1.46	2.44	2.44	0.97	0.97
Q (CALCULATED AT FLOW DEPTH d)	(CFS)	1.56	2.55	2.48	1.05	1.05
PROTECTIVE LINING[2]		Vegetated	SC150BN	Vegetated	SC150BN	Vegetated
n (MANNING'S COEFFICIENT)[2]		0.05	0.050	0.054	0.050	0.050
V_a (ALLOWABLE VELOCITY)	(FPS)	15.0	8.0	15.0	8.0	15.0
V (CALCULATED AT FLOW DEPTH d)	(FPS)	2.6	2.4	2.3	2.3	2.3
τ_a (MAX ALLOWABLE SHEAR STRESS)	(LB/FT^2)	8.0	2.1	8.0	2.1	8.0
τ_d (CALC'D SHEAR STRESS AT FLOW DEPTH d)	(LB/FT^2)	1.0	0.9	0.9	0.8	0.8
CHANNEL BOTTOM WIDTH	(FT)	2	2	2	2	2
CHANNEL SIDE SLOPES	(H:V)	2	2	2	2	2
D (TOTAL DEPTH)	(FT)	0.75	1.0	1.0	0.75	0.75
CHANNEL TOP WIDTH @ D	(FT)	5.0	6.0	6.0	5.0	5.0
d (CALCULATED FLOW DEPTH)	(FT)	0.24	0.38	0.39	0.19	0.19
CHANNEL TOP WIDTH @ FLOW DEPTH d	(FT)	2.96	3.52	3.56	2.76	2.76
BOTTOM WIDTH: FLOW DEPTH RATIO	(12:1 MAX)	8.33	5.26	5.13	10.53	10.53
d_{50} STONE SIZE	(IN)	-	-	-	-	-
A (CROSS-SECTIONAL AREA)	(SQ. FT.)	0.595	1.049	1.084	0.452	0.452
R (HYDRAULIC RADIUS)	(FT)	0.194	0.284	0.290	0.159	0.159
S (BED SLOPE)[3]	(FT/FT)	0.069	0.036	0.036	0.071	0.071
S_c (CRITICAL SLOPE)	(FT/FT)	0.065	0.058	0.067	0.069	0.069
$.7S_c$	(FT/FT)	0.046	0.041	0.047	0.049	0.049
$1.3S_c$	(FT/FT)	0.085	0.076	0.088	0.090	0.090
STABLE FLOW?	(Y/N)	N	Y	Y	N	N
FREEBOARD BASED ON UNSTABLE FLOW	(FT)	0.05	-	-	0.03	0.03
FREEBOARD BASED ON STABLE FLOW	(FT)	-	0.1	0.1	-	-
MINIMUM REQUIRED FREEBOARD[4]	(FT)	0.5	0.5	0.5	0.5	0.5
DESIGN METHOD FOR PROTECTIVE LINING [5] PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)		V	V	V	V	V

1. Use 1.6 for Temporary Channels; 2.25 for Temporary Channels in Special Protection (HQ or EV) Watersheds; 2.75 for Permanent Channels. For Rational Method, enter "N/A" and attach E&S Worksheets 9 and 10. For TR-55 enter "N/A" and attach appropriate Worksheets.
2. Adjust "n" value for changes in channel liner and flow depth. For vegetated channels, provide data for manufactured linings without vegetation and with vegetation in separate columns.
3. Slopes may not be averaged.
4. Minimum Freeboard is 0.5 ft. or ¼ Total Channel Depth, whichever is greater
5. Permissible velocity lining design method is not acceptable for channels with a bed slope of 10% or greater. Shear stress lining design method is required for channels with a bed slope of 10% or greater. Shear stress lining design method may be used for any channel bed slope.

CHANNEL OR CHANNEL SECTION		REL-DC-026	REL-DC-026	REL-DC-027	REL-DC-027	
TEMPORARY OR PERMANENT?	(T OR P)	T	T	T	T	
DESIGN STORM	(2, 5, OR 10 YR)	2 YR	2 YR	2 YR	2 YR	
ACRES	(AC)	1.599	1.599	5.344	5.344	
MULTIPLIER	(1.6, 2.25, or 2.75)[1]	N/A	N/A	N/A	N/A	
Q_r (REQUIRED CAPACITY)	(CFS)	1.17	1.17	1.48	1.48	
Q (CALCULATED AT FLOW DEPTH d)	(CFS)	1.25	1.25	1.54	1.50	
PROTECTIVE LINING[2]		SC150BN	Vegetated	SC150BN	Vegetated	
n (MANNING'S COEFFICIENT)[2]		0.050	0.050	0.050	0.071	
V_a (ALLOWABLE VELOCITY)	(FPS)	8.0	15.0	8.0	15.0	
V (CALCULATED AT FLOW DEPTH d)	(FPS)	2.6	2.6	1.6	1.2	
τ_a (MAX ALLOWABLE SHEAR STRESS)	(LB/FT^2)	2.1	8.0	2.1	8.0	
τ_d (CALC'D SHEAR STRESS AT FLOW DEPTH d)	(LB/FT^2)	1.0	1.0	0.4	0.4	
CHANNEL BOTTOM WIDTH	(FT)	2	2	2	2	
CHANNEL SIDE SLOPES	(H:V)	2	2	2	2	
D (TOTAL DEPTH)	(FT)	0.75	0.75	1.0	1.0	
CHANNEL TOP WIDTH @ D	(FT)	5.0	5.0	6.0	6.0	
d (CALCULATED FLOW DEPTH)	(FT)	0.20	0.20	0.36	0.43	
CHANNEL TOP WIDTH @ FLOW DEPTH d	(FT)	2.8	2.8	3.44	3.72	
BOTTOM WIDTH: FLOW DEPTH RATIO	(12:1 MAX)	10.0	10.0	5.56	4.65	
d_{50} STONE SIZE	(IN)	-	-	-	-	
A (CROSS-SECTIONAL AREA)	(SQ. FT.)	0.480	0.480	0.979	1.230	
R (HYDRAULIC RADIUS)	(FT)	2.894	2.894	0.271	0.313	
S (BED SLOPE)[3]	(FT/FT)	0.084	0.084	0.016	0.016	
S_c (CRITICAL SLOPE)	(FT/FT)	0.068	0.068	0.059	0.114	
$.7S_c$	(FT/FT)	0.048	0.048	0.041	0.080	
$1.3S_c$	(FT/FT)	0.089	0.089	0.077	0.148	
STABLE FLOW?	(Y/N)	N	N	Y	Y	
FREEBOARD BASED ON UNSTABLE FLOW	(FT)	0.04	0.04	-	-	
FREEBOARD BASED ON STABLE FLOW	(FT)	-	-	0.1	0.1	
MINIMUM REQUIRED FREEBOARD[4]	(FT)	0.5	0.5	0.5	0.5	
DESIGN METHOD FOR PROTECTIVE LINING [5] PERMISSIBLE VELOCITY (V) OR SHEAR STRESS (S)		V	V	V	V	

1. Use 1.6 for Temporary Channels; 2.25 for Temporary Channels in Special Protection (HQ or EV) Watersheds; 2.75 for Permanent Channels. For Rational Method, enter "N/A" and attach E&S Worksheets 9 and 10. For TR-55 enter "N/A" and attach appropriate Worksheets.
2. Adjust "n" value for changes in channel liner and flow depth. For vegetated channels, provide data for manufactured linings without vegetation and with vegetation in separate columns.
3. Slopes may not be averaged.
4. Minimum Freeboard is 0.5 ft. or ¼ Total Channel Depth, whichever is greater
5. Permissible velocity lining design method is not acceptable for channels with a bed slope of 10% or greater. Shear stress lining design method is required for channels with a bed slope of 10% or greater. Shear stress lining design method may be used for any channel bed slope.

STANDARD E&S WORKSHEET # 9
Time of Concentration

PROJECT NAME: Williams REAE – Regional Energy Lateral
LOCATION: Luzerne County, PA
PREPARED BY: CD DATE: 03/22/2021
CHECKED BY: KCC DATE: 03/22/2021

OVERLAND FLOW:

$$T_{c\ (sheet\ flow)} = \left[\frac{2(L)(n)}{3(S)^{0.5}}\right]^{0.4673}$$

PATH NUMBER	LENGTH L (FT)	"n" VALUE	AVERAGE SLOPE (S) (ft/ft)	TIME (min)
REL-DC - 001	100	0.4	0.07	13
REL-DC - 002	100	0.4	0.04	16.2
REL-DC - 003	100	0.4	0.07	13
REL-DC - 004	100	0.4	0.035	17.1
REL-DC - 005	100	0.4	0.06	14.1
REL-DC - 006	100	0.4	0.05	15.1
REL-DC - 007	100	0.4	0.06	14.2
REL-DC - 008	100	0.4	0.04	16.7
REL-DC - 009	100	0.4	0.045	16
REL-DC - 010	100	0.4	0.1	11.7
REL-DC - 011	100	0.4	0.11	11.2
REL-DC - 012	100	0.4	0.03	19
REL-DC - 013	100	0.4	0.05	15.5
REL-DC - 014	100	0.4	0.05	15.5
REL-DC - 015	100	0.4	0.07	13.6
REL-DC - 016	100	0.4	0.19	9.3
REL-DC - 017	100	0.24	0.11	8
REL-DC - 018	100	0.4	0.025	21.6
REL-DC - 019	100	0.4	0.06	15.1
REL-DC - 020	100	0.4	0.08	13.5
REL-DC - 021	100	0.4	0.05	16.2
REL-DC - 022	100	0.15	0.03	9
REL-DC - 023	100	0.4	0.06	15
REL-DC - 024	100	0.06	0.04	3.9
REL-DC - 025	100	0.4	0.05	16.1
REL-DC - 026	100	0.4	0.0575	15.2
REL-DC - 027	100	0.4	0.13	11

n	Type of Cover
0.02	smooth pavement
0.1	bare parched soil
0.3	poor grass cover
0.4	average grass cover
0.8	dense grass cover

(L = 150' maximum)

SHALLOW CONCENTRATED FLOW:

PATH NUMBER	LENGTH (FT)	TYPE OF COVER	AVERAGE SLOPE(S) (ft/ft)	V (ft/sec)	TIME (min)
REL-DC - 001	179	Woodland	0.0447	5	2.8
REL-DC - 002	151	Woodland	0.0695	5	1.9
REL-DC - 003	189	Woodland	0.1005	5	2
REL-DC - 004	452	Woodland	0.0796	5	5.3
REL-DC - 005	1091	Woodland	0.0806	5	12.8
REL-DC - 006	1119	Woodland	0.0751	5	13.6
REL-DC - 007	219	Woodland	0.1550	5	1.9

REL-DC - 008	382	Woodland	0.136	5	3.5
REL-DC - 009	743	Woodland	0.076	5	9
REL-DC - 010	571	Woodland	0.0648	5	7.5
REL-DC - 011	301	Woodland	0.0897	5	3.4
REL-DC - 012	1032	Woodland	0.081	5	12.1
REL-DC - 013	909	Woodland	0.0858	5	10.3
REL-DC - 014	910	Woodland	0.0857	5	10.4
REL-DC - 015	999	Woodland	0.079	5	11.8
REL-DC - 016	1421	Woodland	0.142	5	12.6
REL-DC - 017	389	Pasture	0.237	7	1.9
	340	Woodland	0.235	5	2.3
REL-DC - 018	311	Woodland	0.0952	5	3.4
REL-DC - 019	594	Woodland	0.130	5	5.5
	614	Pasture	0.085	7	5.0
REL-DC - 020	1251	Woodland	0.128	5	11.7
REL-DC - 021	905	Woodland	0.104	5	9.4
REL-DC - 022	1016	Pasture	0.137	7	6.5
REL-DC - 023	982	Woodland	0.132	5	9
REL-DC - 024	1061	Pasture	0.0245	7	16.1
	1132	Woodland	0.125	5	10.7
REL-DC - 025	273	Woodland	0.069	5	3.5
REL-DC - 026	274	Woodland	0.0958	5	3
REL-DC - 027	437	Woodland	0.168	5	3.6

CHANNEL FLOW:

PATH NUMBER	LENGTH (ft)	AREA (sq. ft.)	AVG. SLOPE (S) (ft/ft)	WET'D PERIM (ft)	HYDR. RADIUS (ft)	MANNING'S "n"	V (ft/sec)	CHANNEL TIME (min)	Tc (min)
REL-DC - 001	93	0.7	0.01	3.2	0.21	0.05	1.1	4.5	20.3
REL-DC - 002	213	0.5	0.02	2.8	0.16	0.05	1.2	2.7	20.8
REL-DC - 003	208	0.6	0.038	3.1	0.19	0.05	2	1.8	16.8
REL-DC - 004	458	1.5	0.021	4.3	0.36	0.047	2.3	3.4	25.8
REL-DC - 005	495	2.3	0.012	5.1	0.46	0.044	2.2	3.8	30.7
REL-DC - 006	198	1.5	0.02	4.2	0.35	0.05	2.08	1.6	30.3
REL-DC - 007	175	0.4	0.043	2.8	0.14	0.05	1.69	1.7	17.8
REL-DC - 008	259	1.7	0.015	4.4	0.38	0.047	1.9	2.2	22.4
REL-DC - 009	237	1.1	0.03	3.8	0.3	0.05	2.3	1.8	26.8
REL-DC - 010	338	2	0.053	4.8	0.42	0.048	4	1.4	20.6
REL-DC - 011	181	1.2	0.017	3.9	0.31	0.05	1.74	1.7	16.3
REL-DC - 012	156	1.3	0.026	4	0.32	0.05	2.23	1.1	32.2
REL-DC - 013	113	0.8	0.022	3.3	0.23	0.05	1.7	1.1	26.9
REL-DC - 014	144	0.8	0.021	3.3	0.23	0.05	1.6	1.4	27.3
REL-DC - 015	204	2.8	0.02	5.6	0.51	0.047	2.9	1.2	26.6
REL-DC - 016	197	1.8	0.0406	4.5	0.39	0.048	3.22	1	22.9
REL-DC - 017	455	1	0.053	3.7	0.28	0.05	2.9	2.7	14.9
REL-DC - 018	382	0.7	0.037	3.2	0.21	0.05	1.99	3.1	28.1
REL-DC - 019	190	1.3	0.021	4	0.32	0.05	2	1.6	27.2
REL-DC - 020	261	2.9	0.008	5.6	0.52	0.042	2	2.5	27.7
REL-DC - 021	202	1.8	0.01	4.6	0.4	0.045	1.79	1.9	27.5
REL-DC - 022	591	2.3	0.044	5.1	0.46	0.037	5.01	2	17.5
REL-DC - 023	116	0.6	0.069	3.1	0.46	0.05	3.71	0.7	24.7
REL-DC - 024	223	1	0.036	3.7	0.28	0.05	2.41	1.6	32.3

REL-DC - 025	240	0.5	0.071	2.8	0.16	0.05	2.3	1.6	21.2
REL-DC - 026	227	0.5	0.084	2.9	0.17	0.05	2.6	1.4	19.6
REL-DC - 027	630	1	0.016	3.6	0.27	0.05	1.6	6.6	21.2

CHANNEL DIMENSIONS:

PATH NUMBER	BOTTOM WIDTH (ft)	LEFT SIDE SLOPE (H:V)	RIGHT SIDE SLOPE (H:V)	TOTAL DEPTH (ft)	TOP WIDTH (ft)
REL-DC - 001	2	2	2	1	6
REL-DC - 002	2	2	2	0.75	5
REL-DC - 003	2	2	2	0.75	5
REL-DC - 004	2	2	2	1	6
REL-DC - 005	2	2	2	1.5	8
REL-DC - 006	2	2	2	1	6
REL-DC - 007	2	2	2	0.75	5
REL-DC - 008	2	2	2	1.25	7
REL-DC - 009	2	2	2	1	6
REL-DC - 010	2	2	2	1.25	7
REL-DC - 011	2	2	2	1	6
REL-DC - 012	2	2	2	1	6
REL-DC - 013	2	2	2	1	6
REL-DC - 014	2	2	2	1	6
REL-DC - 015	2	2	2	1.25	7
REL-DC - 016	2	2	2	1.25	7
REL-DC - 021	2	2	2	1	6
REL-DC - 018	2	2	2	1	6
REL-DC - 019	2	2	2	1	6
REL-DC - 020	2	2	2	1.5	8
REL-DC - 021	2	2	2	1.25	7
REL-DC - 022	2	2	2	1.25	7
REL-DC - 023	2	2	2	0.75	5
REL-DC - 024	2	2	2	1	6
REL-DC - 025	2	2	2	0.75	5
REL-DC - 026	2	2	2	0.75	5
REL-DC - 027	2	2	2	1.25	7

ATTACHMENT 3.4

LEVEL SPREADER DESIGN WORKSHEET

Williams REAE - REL

LEVEL SPREADER DESIGN FOR CLEAN WATER CROSSINGS

Clean Water Crossing I.D.	NUMBER OF SLOPE PIPES	SLOPE PIPE DIAMETER (IN)	FLOW, Q (CFS)	STATIC HEAD (FT)	MAJOR LOSSES (DUE TO FRICTION) AND MINOR LOSSES	EFFECTIVE HEAD (FT)	LEVEL SPREADER PIPE DIAMETER (IN)	PERFORATION DIAMETER (IN)	NUMBER OF PERFORATIONS PER LINEAR FOOT OF PIPE	ORIFICE AREA (FT^2)	ORIFICE COEFFICIENT (C_d)	Q_O (PERFORATION FLOW RATE, CFS)	Q_L, DISCHARGE PER LINEAR FOOT (CFS/FT)	REQUIRED LENGTH (FT)	ACTUAL LENGTH (FT)	OVERALL LEVEL SPREADER CAPACITY (CFS)
REL-CWC-1	1	12	1.19	4	0.055	3.948	12	0.375	24	7.7E-04	0.60	0.0073	0.176	**6.8**	**10**	1.8
REL-CWC-2	1	12	1.04	10	0.040	9.956	12	0.375	24	7.7E-04	0.60	0.0116	0.280	**3.7**	**5**	1.4
REL-CWC-3	1	18	3.22	3	0.057	2.934	18	0.375	24	7.7E-04	0.60	0.0063	0.152	**21.2**	**25**	3.8
REL-CWC-4	1	18	4.62	7	0.106	6.901	18	0.375	24	7.7E-04	0.60	0.0097	0.233	**19.9**	**20**	4.7
REL-CWC-5	1	12	2.91	4	0.323	4.149	12	0.375	24	7.7E-04	0.60	0.0075	0.180	**16.1**	**20**	3.6
REL-CWC-6	1	12	0.64	7	0.016	6.985	12	0.375	24	7.7E-04	0.60	0.0098	0.234	**2.7**	**5**	1.2
REL-CWC-7	1	12	2.99	4	0.340	3.660	12	0.375	24	7.7E-04	0.60	0.0071	0.169	**17.6**	**20**	3.4
REL-CWC-8	1	12	2.39	5	0.212	4.307	12	0.375	24	7.7E-04	0.60	0.0077	0.184	**13.0**	**15**	2.8
REL-CWC-9	**CROSSING WILL BE USING OUTLET BASIN**															
REL-CWC-10	1	12	1.96	9	0.138	8.563	12	0.375	24	7.7E-04	0.60	0.0108	0.259	**7.6**	**10**	2.6
REL-CWC-11	1	12	2.71	16	0.251	15.755	12	0.375	24	7.7E-04	0.60	0.0147	0.352	**7.7**	**10**	3.5
REL-CWC-12	1	12	2.45	7	0.222	6.764	12	0.375	24	7.7E-04	0.60	0.0096	0.230	**10.6**	**15**	3.5
REL-CWC-13	**CROSSING WILL BE USING OUTLET BASIN**															
REL-CWC-14	1	12	5.53	15	1.062	13.956	12	0.375	24	7.7E-04	0.60	0.0138	0.331	**16.7**	**20**	6.6
REL-CWC-15	1	12	2.63	20	0.237	19.714	12	0.375	24	7.7E-04	0.60	0.0164	0.393	**6.7**	**10**	3.9
REL-CWC-16	1	12	1.14	16	0.047	15.899	12	0.375	24	7.7E-04	0.60	0.0147	0.353	**3.2**	**5**	1.8
REL-CWC-17	1	12	2.34	7	0.204	6.799	12	0.375	24	7.7E-04	0.60	0.0096	0.231	**10.1**	**15**	3.5
REL-CWC-18	1	12	5.4	19	0.958	18.037	12	0.375	24	7.7E-04	0.60	0.0157	0.376	**14.4**	**15**	5.6
REL-CWC-19	**CROSSING WILL BE USING OUTLET BASIN**															
REL-CWC-20	**CROSSING WILL BE USING OUTLET BASIN**															
REL-CWC-21	1	12	1.44	18	0.073	17.894	12	0.375	24	7.7E-04	0.60	0.0156	0.375	**3.8**	**5**	1.9
REL-CWC-22	1	12	2.36	16	0.194	15.808	12	0.375	24	7.7E-04	0.60	0.0147	0.352	**6.7**	**10**	3.5
REL-CWC-23	1	12	0.91	17	0.031	17.010	12	0.375	24	7.7E-04	0.60	0.0152	0.365	**2.5**	**5**	1.8
REL-CWC-24	1	12	1.12	6	0.049	5.915	12	0.375	24	7.7E-04	0.60	0.0090	0.215	**5.2**	**10**	2.2
REL-CWC-25	1	12	3.86	9	0.546	8.452	12	0.375	24	7.7E-04	0.60	0.0107	0.258	**15.0**	**15**	3.9

ATTACHMENT 4
OFFSITE DISCHARGE REPORT

TABLE OF CONTENTS

Attachment 4

ATTACHMENT 4.1

OFFSITE DISCHARGE REPORT – MLV-515RA20

Transcontinental Gas Pipe Line Company, LLC

Offsite Discharge Report

Regional Energy Access Expansion Project

Regional Energy Lateral

MLV-515RA20

April 2021

1.0 Project Description

Transcontinental Gas Pipe Line Company, LLC (Transco), a subsidiary of The Williams Companies, Inc., is proposing the Regional Energy Lateral (Project). The mainline valve, MLV-515RA20, is proposed as part of the overall Project. MLV-515RA20 is located along the REL in Bear Creek Township, Luzerne County at Milepost 7.54. It is proposed as a means to isolate gas flows along sections of a pipeline. Pig launchers/receivers and communication equipment may be located at the MLV facility. The facility will include a 125 foot long gravel access road, 55 ft x 90 ft gravel pad, various diversion and collection channels, and a dry extended detention basin PCSM BMP. This facility will require Erosion and Sediment (E&S) Control and Post Construction Stormwater Management (PCSM) Best Management Practices (BMP's) to manage stormwater runoff during and after construction.

Transco has developed an Offsite Discharge Report for the discharges associated with the proposed BMP's. An Offsite Discharge Report is performed to ensure that no offsite erosion will occur downstream of the proposed activities. The analysis conducted for this project followed the sequence outlined in PaDEP's factsheet for offsite discharges (Document #3930-FS-DEP4124).

2.0 Conveyance Best Management Practices

Erosion and Sediment Control and Post Construction Stormwater Management BMP's are proposed to manage stormwater runoff during and after construction. A subsurface infiltration bed lays beneath the gravel pad where water accumulates and flows to a rip-rap outlet via a diversion ditch. A collection ditch then directs water towards a dry extended detention pond on the west side of the access road, which will be installed to convey the net increase in volume between the pre- and post-development 2-year storm events and mitigate the increase (pre-post development) in peak runoff for the 2-, 10-, 50-, and 100-year storm events. An overflow spillway, which allows water to flow to an offsite area, is proposed as the discharge structure at this location.

2.1 Dry Extended Detention Pond

The dry extended detention pond discharges water through the overflow spillway and it flows into the adjacent forested area located west of the Limits of Disturbance. The stormwater is discharged as sheet flow and travels along a vegetative flow path until it reaches a Bald Mountain Road culvert and then a delineated stream, S83-T2. The flow path is depicted on Exhibit 1.0. Soil types and the erodibility factors within the flow path are shown on Table 1.

Table 1 – Soils Mapped within Flow Path	
Soil Mapping Unit	**Soil Erodibility Factor, K_f**
VrB	**K_f = 0.28**

The soil erodibility factor is shown in Table 1. A low K value indicates the soil will not easily erode whereas a high K value means the soil will easily erode. VrB soils have a moderate susceptibility to erosion (0.28). Photos were taken along the flow path of the downstream area to show the vegetative cover.

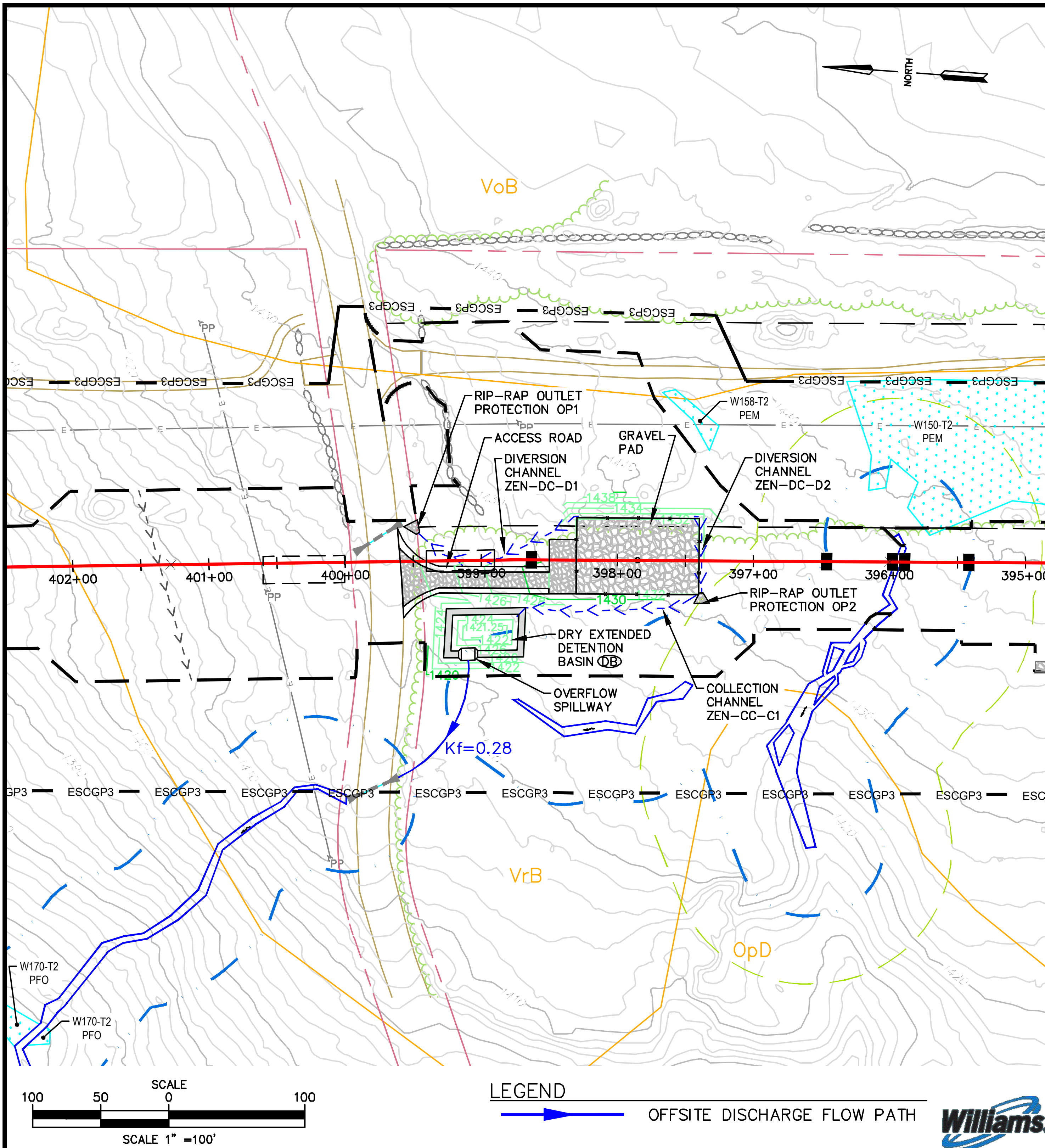
Photo 1: Existing Area at Proposed Overflow Spillway

Photo 2: Area Downgradient of the Proposed Overflow Spillway

Photo 1 shows the existing condition where the overflow spillway is proposed. The area will be graded to facilitate the installation of the overflow spillway and revegetated. Photo 2 shows the areas downgradient of the proposed overflow spillway, which is over 90% vegetated. In the E&S and PCSM Narrative, site calculations are provided that show the Pre- and Post-Construction runoff flow rates and volume. These calculations show a reduction in the post-construction discharge rates and volumes. Calculations indicated that the discharge velocity at the proposed overflow spillway is 0.0 feet per second for the for the 25 year, 24-hour storm event.

3.0 Conclusion

The Offsite Discharge Report completed for the proposed dry extended detention pond and series of BMP's upslope indicates that the flow path downgradient of the overflow spillway is not anticipated to erode during storm events due to the existing vegetative conditions, low discharge velocities, and soil erodibility values.



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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
REGIONAL ENERGY ACCESS EXPANSION PROJECT
MLV-515RA20

EROSION AND SEDIMENTATION CONTROL PLAN

FLOW PATH

BEAR CREEK TWP LUZERNE COUNTY PENNSYLVANIA

DATE: 03/08/21
DRAWN BY: RHM
CHECKED: KCC
WHM DRAWING NO: FLOW PATH

EXHIBIT 1.0

ATTACHMENT 4.2

OFFSITE DISCHARGE REPORT –
MLV-515RA30

Transcontinental Gas Pipe Line Company, LLC

Offsite Discharge Report

Regional Energy Access Expansion Project

Regional Energy Lateral

MLV-515RA30

April 2021

1.0 Project Description

Transcontinental Gas Pipe Line Company, LLC (Transco), a subsidiary of The Williams Companies, Inc., is proposing the Regional Energy Lateral (Project). The mainline valve, MLV515-RA30, is proposed as part of the overall Project. MLV-515RA30 is located along the REL in Wyoming Borough, Luzerne County at Milepost 14.84. It is proposed as a means to isolate gas flows along sections of a pipeline. This new facility will require Erosion and Sediment (E&S) Control and Post Construction Stormwater Management (PCSM) Best Management Practices (BMP's) to manage stormwater runoff during and after construction.

Transco has developed an Offsite Discharge Report for the discharges associated with the proposed BMP's. An Offsite Discharge Report is performed to ensure that no offsite erosion will occur downstream of the proposed activities. The analysis conducted for this project followed the sequence outlined in PaDEP's factsheet for offsite discharges (Document #3930-FS-DEP4124).

2.0 Conveyance Best Management Practices

Erosion and Sediment Control and Post Construction Stormwater Management BMP's are proposed to manage stormwater runoff during and after construction. A subsurface infiltration bed lays beneath the gravel pad where water accumulates and is released into a diversion channel by an overflow spillway on the east side of the pad. Water enters a vegetative swale, leading to a 6" culvert that daylights to a rip-rap apron southeast of the pad where it discharges into wetland W11-T3 PFO, leaving the site on the southwest side. These BMP's will be installed to convey the net increase in volume between the pre and post development 2-year storm events and mitigate the increase (pre-post development) in peak runoff for the 2-, 10-, 50-, and 100-year storm events. A rip-rap apron, which allows water to flow to an offsite area, is proposed as the discharge structure at this location.

2.1 Vegetative Swale

The vegetative swale discharges water through a rip-rap apron and it flows into the adjacent wetland and agricultural areas located southwest of the Limits of Disturbance. The stormwater is discharged as sheet flow and travels along a vegetative flow path until it reaches an unnamed blue line stream, upstream of the Susquehanna River. The flow path is depicted on Exhibit 1.0. Soil types and the erodibility factors within the flow path are shown on Table 1.

Table 1 – Soils Mapped within Flow Path	
Soil Mapping Unit	**Soil Erodibility Factor, K_f**
Ho	**K_f = 0.28**
Ps	**K_f = 0.43**

The soil erodibility factors are shown in Table 1. A low K value indicates the soil will not easily erode whereas a high K value means the soil will easily erode. Ho and Ps soils have a moderate susceptibility to erosion (0.28, 0.43). Photos were taken along the flow path of the downstream area to show the vegetative cover.

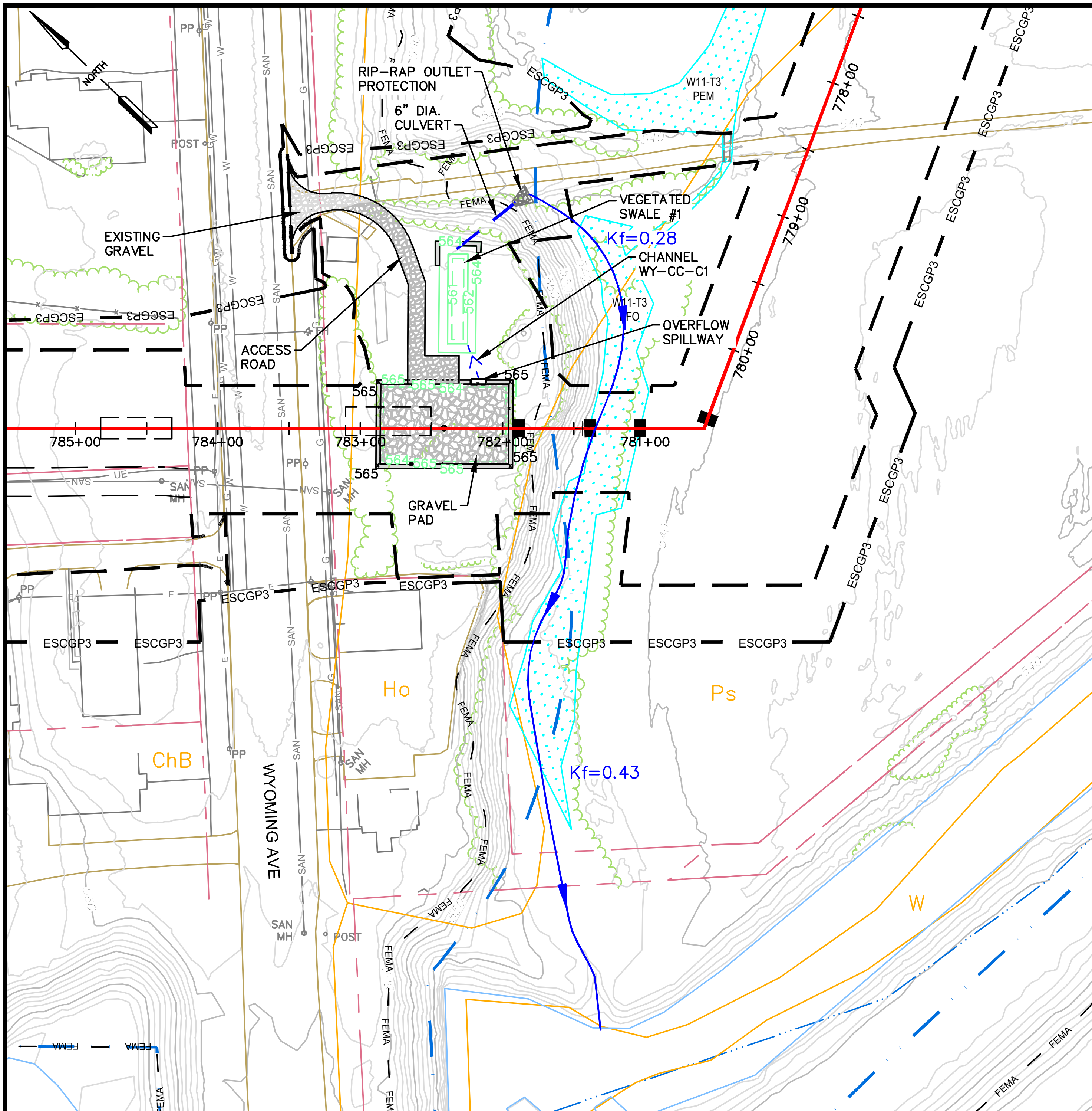
Photo 1: Existing Area at Proposed Rip-Rap Apron

Photo 2: Area Downgradient of the Proposed Rip-Rap Apron

Photo 1 shows the existing condition where the rip-rap apron is proposed. The area will be graded to facilitate the installation of the rip-rap apron and revegetated. Photo 2 shows the areas downgradient of the proposed rip-rap apron, which is over 90% vegetated. In the E&S and PCSM Narrative, site calculations are provided that show the Pre- and Post-Construction runoff flow rates and volume. These calculations show a reduction in the post-construction discharge rates and volumes. Calculations indicated that the discharge velocity at the proposed rip-rap apron is 0.0 feet per second for the for the 25 year, 24-hour storm event.

3.0 Conclusion

The Offsite Discharge Report completed for the proposed vegetative swale and series of BMPs indicates that the flow path downgradient of the rip-rap apron is not anticipated to erode during storm events due to the existing vegetative conditions, low discharge velocities, and soil erodibility values.



SCALE

100 50 0 100

SCALE 1" =100'

LEGEND

OFFSITE DISCHARGE FLOW PATH

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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
REGIONAL ENERGY ACCESS EXPANSION PROJECT
MLV-515RA30

EROSION AND SEDIMENTATION CONTROL PLAN

FLOW PATH

WYOMING BOROUGH LUZERNE COUNTY PENNSYLVANIA

DATE:	03/08/21
DRAWN BY:	RHM
CHECKED:	KCC
WHM DRAWING NO:	FLOW PATH
	EXHIBIT 1.0

ATTACHMENT 4.3

OFFSITE DISCHARGE REPORT – CARVERTON TIE-IN

Transcontinental Gas Pipe Line Company, LLC

Offsite Discharge Report

Regional Energy Access Expansion Project

Regional Energy Lateral

Carverton Tie-in

April 2021

1.0 Project Description

Transcontinental Gas Pipe Line Company, LLC (Transco), a subsidiary of The Williams Companies, Inc., is proposing the Regional Energy Lateral (Project). The Carverton Tie-in is proposed as part of the overall Project. The Carverton Tie-in is a receipt Tie-in proposed in West Wyoming Borough, Luzerne County at Milepost 16.8. Proposed is the installation of new tie-in piping into the proposed REL, valves, and aboveground tie-in piping for an annubar meter. The facility will include a 55 ft x 90 ft gravel pad, and an infiltration berm PCSM BMP. The new facility will require Erosion and Sediment (E&S) Control and Post Construction Stormwater Management (PCSM) Best Management Practices (BMP's) to manage stormwater runoff during and after construction.

Transco has developed an Offsite Discharge Report for the discharges associated with the proposed BMP's. An Offsite Discharge Report is performed to ensure that no offsite erosion will occur downstream of the proposed activities. The analysis conducted for this project followed the sequence outlined in PaDEP's factsheet for offsite discharges (Document #3930-FS-DEP4124).

2.0 Conveyance Best Management Practices

Erosion and Sediment Control and Post Construction Stormwater Management BMP's are proposed to manage stormwater runoff during and after construction. An infiltration berm will be installed to convey the net increase in volume between the pre- and post-development 2-year storm events and mitigate the increase (pre-post development) in peak runoff for the 2-, 10-, 50-, and 100-year storm events. The infiltration berm, which allows water to flow to an offsite area, is proposed as the discharge structure at this location.

2.1 Infiltration Berm

The infiltration berm discharges water, and it flows into the adjacent forested area located east of the Limits of Disturbance. The stormwater is being discharged as sheet flow and travels along a vegetative flow path until it reaches an unnamed blue line stream. The flow path is depicted on Exhibit 1.0. Soil types and the erodibility factors within the flow path are shown on Table 1.

Table 1 – Soils Mapped within Flow Path	
Soil Mapping Unit	**Soil Erodibility Factor, K_f**
ArD	**K_f = N/a**
OXF	**K_f = 0.10**
McD	**K_f = 0.20**

The soil erodibility factors are shown in Table 1. A low K value indicates the soil will not easily erode whereas a high K value means the soil will easily erode. Soil erodibility data is not provided for ArD soils. OXF and McD soils have a low susceptibility to erosion (0.10, 0.20). Photos were taken along the flow path of the downstream area to show the vegetative cover.

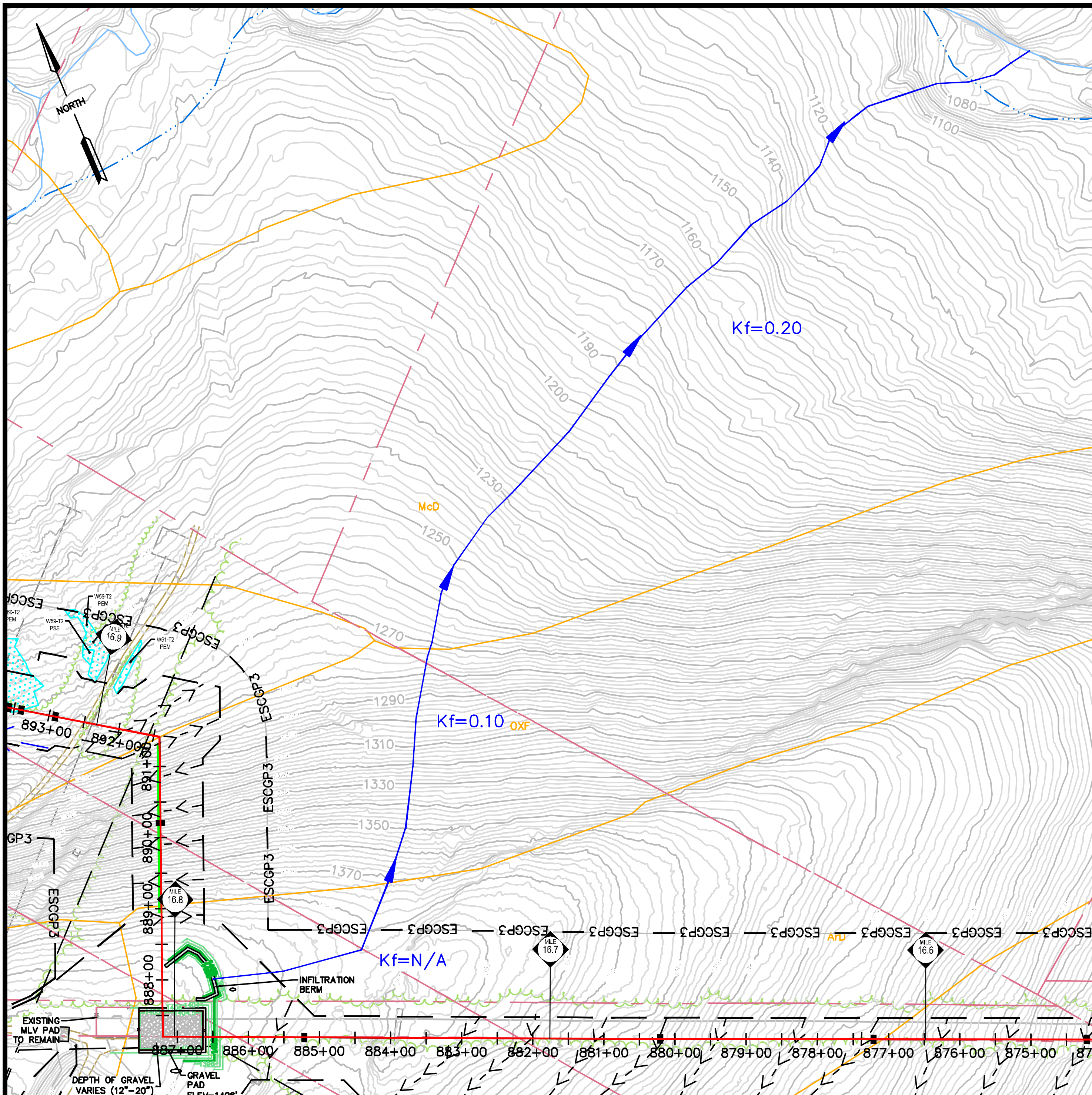
Photo 1: Existing Area at Proposed Infiltration Berm

Photo 2: Area Downgradient of the Proposed Infiltration Berm

Photo 1 shows the existing condition where the infiltration berm is proposed. The area will be graded to facilitate the installation of the infiltration berm and revegetated. Photo 2 shows the areas downgradient of the proposed infiltration berm, which is over 90% vegetated. In the E&S and PCSM Narrative, site calculations are provided that show the Pre- and Post-Construction runoff flow rates and volume. These calculations show a reduction in the post-construction discharge rates and volumes. Calculations indicated that the discharge velocity at the proposed infiltration berm is 0.0 feet per second for the for the 25 year, 24-hour storm event.

3.0 Conclusion

The Offsite Discharge Report completed for the proposed infiltration berm indicates that the flow path downgradient of its discharge point is not anticipated to erode during storm events due to the existing vegetative conditions, low discharge velocities, and soil erodibility values.



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SCALE 1" =200'

LEGEND

OFFSITE DISCHARGE FLOW PATH

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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
REGIONAL ENERGY ACCESS EXPANSION PROJECT
CARVERTON TIE-IN

EROSION AND SEDIMENTATION CONTROL PLAN

FLOW PATH

WEST WYOMING BOROUGH LUZERNE COUNTY PENNSYLVANIA

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CHECKED: KCC

WHM DRAWING NO: FLOW PATH

EXHIBIT 1.0

ATTACHMENT 4.4

OFFSITE DISCHARGE REPORT – LOWER DEMUNDS REL TIE-IN AND HILDEBRANDT TIE-IN/MLV-515RA40

Transcontinental Gas Pipe Line Company, LLC

Offsite Discharge Report

Regional Energy Access Expansion Project

Regional Energy Lateral

Lower Demunds REL Tie-in and Hildebrandt Tie-in/MLV-515RA40

April 2021

1.0 Project Description

Transcontinental Gas Pipe Line Company, LLC (Transco), a subsidiary of The Williams Companies, Inc., is proposing the Regional Energy Lateral (Project). The Lower Demunds REL Tie-in and Hildebrandt Tie-in/MLV-515RA40 are proposed as part of the overall Project. These new facilities will require Erosion and Sediment (E&S) Control and Post Construction Stormwater Management (PCSM) Best Management Practices (BMP's) to manage stormwater runoff during and after construction.

The Lower Demunds REL Tie-in is located in Dallas Township, Luzerne County near the terminus of the Regional Energy Lateral at Milepost 22.1. Proposed is the installation of approximately 400 feet of new 20-inch-diameter tie-in piping from Transco's existing Leidy Line A tie-in site to the new proposed REL tie-in site, valves, and new aboveground tie-in piping for an annubar meter. The facility will include a 74.5 ft x 84 ft gravel pad. With limited run-on to the pad area, stormwater management will be accomplished by infiltration within the pad area itself.

The Hildebrandt Tie-in/MLV-515RA40 is a receipt Tie-in located in Dallas Township, Luzerne County, at the terminus of the Regional Energy Lateral at Milepost 22.34. Proposed is the installation of new aboveground tie-in piping, valves, and aboveground piping for an annubar meter, and associated pig trap. The facility will include an 80 ft x 140 ft gravel pad. With run-on to the pad area diverted by an upgradient channel, stormwater management will be accomplished by infiltration within the pad area itself.

Transco has developed an Offsite Discharge Report for the discharges associated with the proposed BMP's. An Offsite Discharge Report is performed to ensure that no offsite erosion will occur downstream of the proposed activities. The analysis conducted for this project followed the sequence outlined in PaDEP's factsheet for offsite discharges (Document #3930-FS-DEP4124).

2.0 Conveyance Best Management Practices

Erosion and Sediment Control and Post Construction Stormwater Management BMP's are proposed to manage stormwater runoff during and after construction. At both Lower Demunds REL Tie-in and Hildebrant Ties-in sites, a subsurface infiltration bed lays beneath each gravel pad where water accumulates and flows away from the pads. At the Lower Demunds Tie-in, the pad will be bermed around the exterior to retain stormwater for infiltration. An overflow spillway will be used to discharge excess flow to a level spreader on the east side of the pad. At the

Hildebrant Tie-in, the pad will be bermed around the exterior to retain stormwater for infiltration. An overflow spillway on the east side of the pad will be used to discharge excess flow to the diversion channel. The water will then be directed northwest to a level spreader. These subsurface infiltration beds will be installed to convey the net increase in volumes between the pre- and post-development 2-year storm events and mitigate the increase (pre-post development) in peak runoff for the 2-, 10-, 50-, and 100-year storm events. Level spreaders, which allow water to flow to an offsite area, are proposed as the discharge structures at these locations. The runoff rates have been reduced by 40% of the pre-construction flow rates in accordance with the Dallas Township ordinance.

2.1 Subsurface Infiltration Bed – Lower Demunds REL Tie-in

The subsurface infiltration bed releases water to an overflow spillway which discharges the excess flow to a level spreader on the east side of the pad and flows into a wetland complex southeast of the site and Limits of Disturbance. The stormwater is being discharged as sheet flow and travels along a vegetative flow path until it reaches a water collection pond. The flow path is depicted in Exhibit 1.0A. Soil types and the erodibility factors within the flow path are shown in Table 1.

Table 1 – Soils Mapped within Flow Path	
Soil Mapping Unit	**Soil Erodibility Factor, K_f**
WiB	**K_f = 0.20**
WiC	**K_f = 0.20**

The soil erodibility factors are shown in Table 1. A low K value indicates the soil will not easily erode whereas a high K value means the soil will easily erode. WiB and WiC soils have a low susceptibility to erosion (0.20). Photos were taken along the flow path of the downstream area to show the vegetative cover.

Photo 1: Existing Area at Proposed Level Spreader

Photo 2: Area Downgradient of the Proposed Level Spreader

Photo 1 shows the existing condition where the level spreader is proposed. The area will be graded to facilitate the installation of the level spreader and revegetated. Photo 2 shows the areas downgradient of the proposed level spreader, which is over 90% vegetated. In the E&S and PCSM Narrative, site calculations are provided that show the Pre- and Post-Construction runoff flow rates and volume. These calculations show a reduction in the post-construction discharge rates and volumes. Calculations indicated that the discharge velocity at the proposed level spreader is 0.0 feet per second for the for the 25 year, 24-hour storm event.

2.2 Subsurface Infiltration Bed – Hildebrandt Tie-in/MLV-515RA40

The subsurface infiltration bed releases water through the overflow spillway and it flows into a level spreader via a diversion channel on the east side of the pad where it is discharged and flows into the adjacent wetland complex and forested area west of the Limits of Disturbance. The stormwater is being discharged as sheet flow and travels along a vegetative flow path until it reaches an unnamed blueline stream. The flow path is depicted in Exhibit 1.0B. Soil types and the erodibility factors within the flow path are shown in Table 2.

Table 2 – Soils Mapped within Flow Path	
Soil Mapping Unit	**Soil Erodibility Factor, K_f**
WiB	**K_f = 0.20**
MoB	**K_f = 0.24**
CiA	**K_f = 0.32**

The soil erodibility factors are shown in Table 2. A low K value indicates the soil will not easily erode whereas a high K value means the soil will easily erode. The soils in the flow path are considered moderately erodible (0.20, 0.24, 0.32). Photos were taken along the flow path of the downstream area to show the vegetative cover.

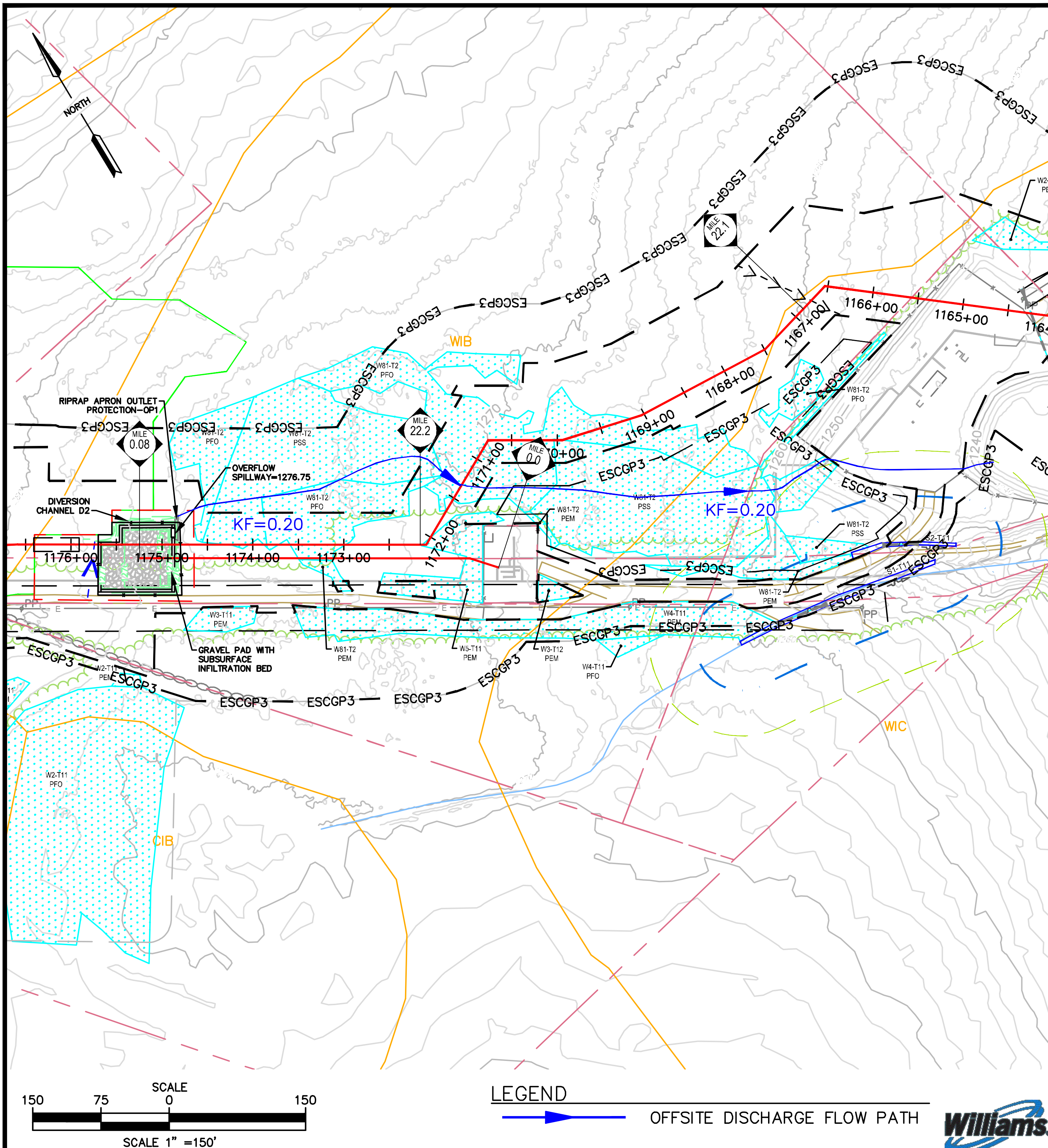
Photo 3: Existing Area at Proposed Level Spreader

Photo 4: Area Downgradient of the Proposed Level Spreader

Photo 3 shows the existing condition where the level spreader is proposed. The area will be graded to facilitate the installation of the level spreader and revegetated. Photo 4 shows the areas downgradient of the proposed level spreader, which is over 90% vegetated. In the E&S and PCSM Narrative, site calculations are provided that show the Pre- and Post-Construction runoff flow rates and volume. These calculations show a reduction in the post-construction discharge rates and volumes. Calculations indicated that the discharge velocity at the proposed level spreader is 0.0 feet per second for the for the 25 year, 24-hour storm event.

3.0 Conclusion

The Offsite Discharge Report completed for each of the proposed subsurface infiltration beds under the gravel pads indicate that each flow path downgradient of the level spreaders are not anticipated to erode during storm events due to the existing vegetative conditions, low discharge velocities, and soil erodibility values.



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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
REGIONAL ENERGY ACCESS EXPANSION PROJECT
LOWER-DEMUNDS REL TIE-IN

EROSION AND SEDIMENTATION CONTROL PLAN

FLOW PATH

DALLAS TWP LUZERNE COUNTY PENNSYLVANIA

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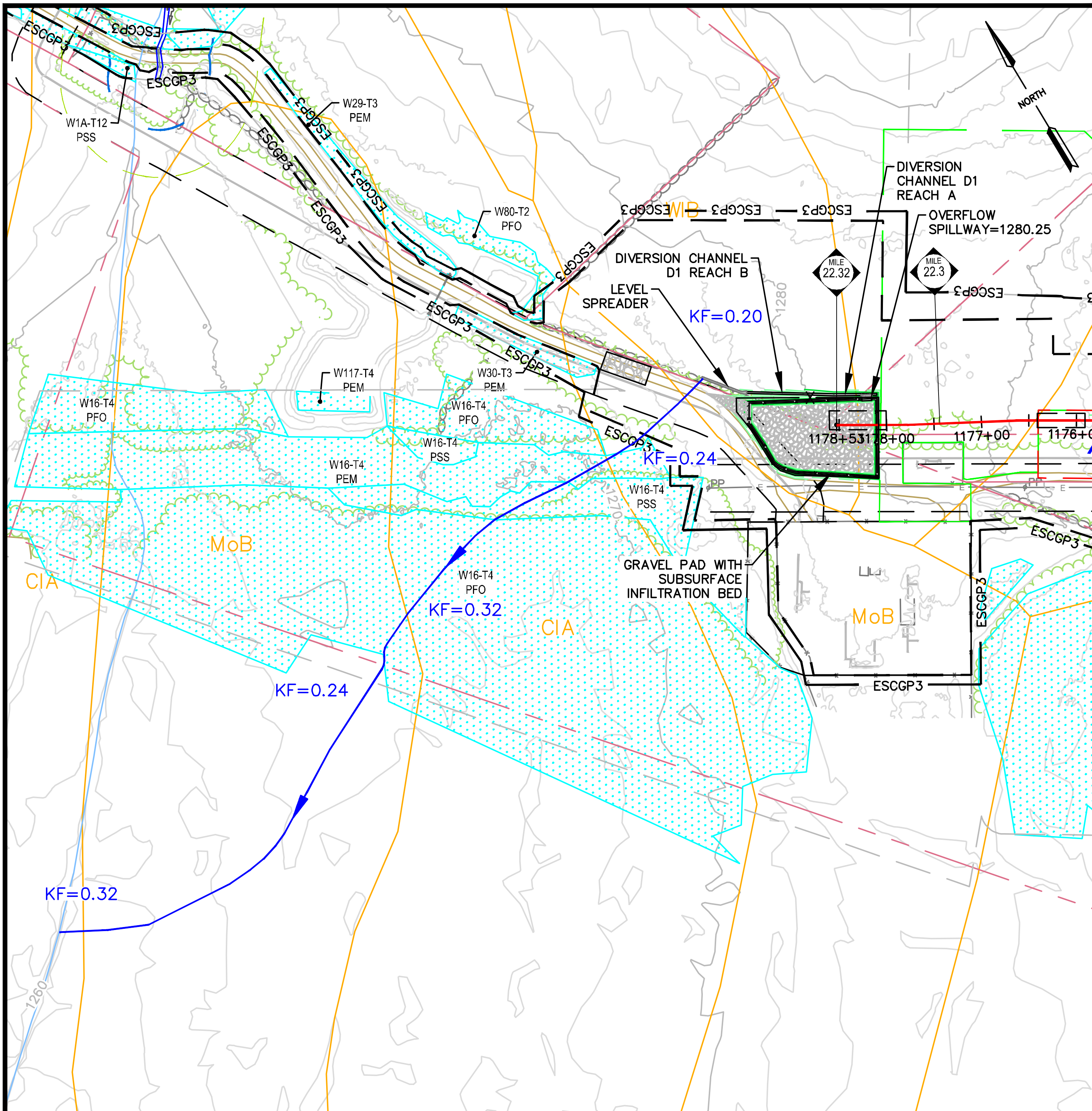

SCALE

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SCALE 1" =150'

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OFFSITE DISCHARGE FLOW PATH

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TRANSCONTINENTAL GAS PIPE LINE COMPANY, LLC
REGIONAL ENERGY ACCESS EXPANSION PROJECT
HILDEBRANT TIE-IN/ MLV-515RA40

EROSION AND SEDIMENTATION CONTROL PLAN

FLOW PATH

DALLAS TWP LUZERNE COUNTY PENNSYLVANIA

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SECTION 2.1.2

DRAWINGS