APPENDIX D
UPDATED SOIL TABLES WITH PRIME AGRICULTURAL SOILS IDENTIFIED

TABLE 2-4
PROPOSED ACTION
PHASE 1 RIVERSIDE/FLANDERS TO JAMESPORT/LAUREL MAIN EXTENSION
SOIL CHARACTERISTICS AND CONSTRAINTS OF
SOIL MAPPING UNITS WITHIN 100 FEET OF ROUTE CENTERLINE

Soil Unit Symbol	Soil Unit Name	AOI (%)	Constraints for Pipelines[(1)]	Erosion Potential	Soil Drainage or Permeability	Capability Class I or II Prime Agricultural Soils (Y/N)
Bd	Berryland mucky sand	0.6%	Severe, high water table	Slight	Very Poorly Drained	No
CpA	Carver and Plymouth sands, 0 to 3 percent slopes	6.6%	Severe, Stability	Slight	Droughty	No
CpC	Carver and Plymouth sands, 3 to 15 percent slopes	2.0%	Severe, Stability	Slight to Moderate	Droughty	No
CpE	Carver and Plymouth sands, 15 to 35 percent slopes	0.5%	Severe, Stability	Moderate to Severe	Droughty	No
CuB	Cut and fill land, gently sloping	2.5%	Severe, Stability	Depends -No Information Available	Depends - No Information Available	No
De	Deerfield loamy fine sand, 0 to 3 percent slopes	1.8%	Severe, Stability	Slight	High Water Table, Moderately Well Drained	No
Fd	Fill land, dredged material	1.8%	Severe, Stability	---	---	No
HaA	Haven loam, 0 to 2 percent slopes	50.0%	Moderate, Stability	Slight	Well Drained Rapid Permeability	Yes
HaB	Haven loam, 2 to 6 percent slopes	1.2%	Moderate, Stability	Slight	Well Drained	Yes
He	Haven loam, thick surface layer	0.8%	Moderate, Stability	Slight	Well Drained	Yes
PlA	Plymouth loamy coarse sand, 0 to 3 percent slopes	5.8%	Moderate, Stability	Slight	Excessively Drained	No
PlB	Plymouth loamy coarse sand, 3 to 8 percent slopes	2.6%	Moderate, Stability	Slight	Droughty	No

Soil Unit Symbol	Soil Unit Name	AOI (%)	Constraints for Pipelines(1)	Erosion Potential	Soil Drainage or Permeability	Capability Class I or II Prime Agricultural Soils (Y/N)
PlC	Plymouth loamy coarse sand, 3 to 8 percent slopes	1.1%	Moderate, Stability	Moderate to Severe	Excessively Drained	No
PmB3	Plymouth gravelly loamy sand, 8 to 15 percent slopes, eroded	0.0%	Moderate, Stability	Slight to Moderate	Extreme Droughtiness	No
PmC3	Plymouth gravelly loamy sand, 8 to 15 percent slopes, eroded	0.9%	Moderate, Stability	Moderate to Severe	Excessively Drained/ Rapid Permeability, Droughty	No
RdA	Riverhead sandy loam, 0 to 3 percent slopes	12.8%	Moderate, Stability	Slight	Well to Excessively Drained	Yes
RdB	Riverhead sandy loam, 3 to 8 percent slopes	4.4%	Moderate, Stability	Moderate to Slight	Well Drained	Yes
RdC	Riverhead sandy loam, 8 to 15 percent slopes	0.5%	Moderate, Stability	Moderate to Severe	Moderate-Rapid Permeability	No
Tm	Tidal marsh	1.7%	Severe, High Water	---	Very poorly Drained	No
W	Water	2.3%	---	---	---	No
Wd	Walpole sandy loam, coastal lowland, 0 to 3% slopes	<0.0%	Severe, Seasonal High Water at 0.5-1.5 feet	Slight	Somewhat Poorly- Poorly Drained	No
TOTAL	**---**	**100.0%**	**---**	**---**	**---**	**---**

Source: United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS) (2025) and New York State Ortho Imagery (2023)

*AOI = “Area of Interest” which is a total of 200 feet in width or 100 feet on each side of the street centerline.

(1) Ratings are based on trenches having a depth of six feet or more. SCWA anticipates depths of 4.75 feet (57 inches) unless a deeper trench is needed due to the presence of an obstacle such as another utility.

TABLE 2-5
PROPOSED ACTION
PHASE 1 RIVERSIDE/FLANDERS TO JAMESPORT/LAUREL
BOOSTER STATION PROPERTY
SOIL CHARACTERISTICS AND CONSTRAINTS OF SOILS ONSITE

Soil Map Symbol	Map Unit Name	Percent of AOI (%)	Constraints for Pipelines[2]	Erosion Potential	Soil Drainage or Permeability	Capability Class I or II Prime Agricultural Soils (Y/N)
HaA[1]	Haven loam, 0 to 2 percent slopes	38.6%	Moderate, Stability	Slight	Well Drained Rapid Permeability	Yes
PmC3	Plymouth gravelly loamy sand, 8 to 15 percent slopes, eroded	25.5%	Moderate, Stability	Moderate to Severe	Excessively Drained/ Rapid Permeability, Droughty	No
RdA	Riverhead sandy loam, 0 to 3 percent slopes	35.8%	Moderate, Stability	Slight	Well to Excessively Drained	Yes
TOTAL		**100%**	**---**	**---**	**---**	**---**

Sources: USDA, NRCS (2025) and New York State Ortho Imagery (2023)

(1) HaA Soils are the only soils to be affected by booster station and booster station accessories to be construction.

(2) Ratings are based on trenches having a depth of six feet or more. SCWA anticipates depths of 4.75 feet (57 inches) unless a deeper trench is needed due to the presence of obstacles such as another utility.

TABLE 2-6
PROPOSED ACTION AND PREFERRED ALTENTATVE
PHASE 2 EAST MARION TO ORIENT MAIN EXTENSION
SOIL CHARACTERISTICS AND CONSTRAINTS OF SOILS
WITHIN 100 FEET OF ROUTE CENTERLINE

Soil Symbol	Soil Unit Name	% of Phase 2 Route	Constraints for Pipelines[1]	Erosion Potential	Soil Drainage or Permeability	Capability Class I or II Prime Agricultural Soils (Y/N)
Bs	Beaches, sand	0.8%	Severe, High Water	---	---	No
De	Deerfield loamy fine sand, 0 to 3 percent slopes	2.0%	Severe, Stability	Slight	High Water Table, Moderately Well Drained	No
Fd	Fill land, dredged material	3.0%	---	---	---	No

Soil Symbol	Soil Unit Name	% of Phase 2 Route	Constraints for Pipelines[1]	Erosion Potential	Soil Drainage or Permeability	Capability Class I or II Prime Agricultural Soils (Y/N)
HaA	Haven loam, 0 to 2 percent slopes	47.8%	Slight	Slight	Well Drained, Rapid Permeability	Yes
HaB	Haven loam, 2 to 6 percent slopes	1.1%	Slight	Slight	Well Drained	Yes
HaC	Haven loam, 6 to 12 percent slopes[2]	0.0	Moderate Stability	Moderate to High	Moderately to Severely Drained	No
He	Haven loam, thick surface area	0.7%	Moderate, Stability	Slight	Well Drained	Yes
MkB	Montauk loam, 3 to 8 percent slopes	6.9%	Slight	Moderate to Slight	Well Drained to Moderately Well Drained	Yes
MkC	Montauk loam, 8 to 15 percent slopes	0.1%	Slight	Moderate to Severe	Well Drained	No
PlA	Plymouth loamy coarse sand, 0 to 3 percent slopes	3.3%	Moderate, Stability	Slight	Excessively Drained	No
RdA	Riverhead sandy loam, 0 to 3 percent slopes[1]	0.0	Moderate, Stability	Slight	Well to Excessively Drained	Yes
RhB	Riverhead and Haven soils, graded, 0 to 8 percent slopes	22.2%	Moderate Stability	Moderate	Well Drained	No
Tm	Tidal marsh	7.9%	Severe, High Water	---	Very poorly Drained	No
W	Water	2.8%	---	---	---	No
Wd	Walpole sandy loam, coastal lowland, 0 to 3 percent slopes	1.2%	Severe, Seasonal High Water at 0.5-1.5 feet	Slight	Somewhat Poorly- Poorly Drained	No
TOTAL	**---**	**100%**	**---**	**---**	**---**	**---**

Source: United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS)

(1) Ratings are based on trenches having a depth of six feet or more. SCWA anticipates depths of 4.75 feet (57 inches) unless a deeper trench is needed due to the presence of an obstacles such as another utility.

(2) Present within the soil study area at less than 0.1 percent of the study area.

TABLE 5-1
PHASE I PREFERRED ALTERNATIVE
RIVERSIDE/FLANDERS TO LAUREL VIA MAIN ROAD (SR 25)
SOIL MAPPING UNITS WITHIN 100 FEET OF ROUTE CENTERLINE

Soil Unit Symbol	Soil Unit Name	Percent of AOI	Capability Class I or II Prime Agricultural Soils (Y/N)
Bd	Berryland mucky sand	0.7%	No
CpA	Carver and Plymouth soils, 0-3% slopes	7.6%	No
CpC	Carver and Plymouth soils, 3-15% slopes	3.8%	No
CuB	Cut and fill land, gently sloping	2.9%	No
De	Deerfield loamy fine sand, 0 to 3 percent slopes	2.1%	No
Fd	Fill land, dredged material	2.1%	No
HaA	Haven loam, 0 to 2 percent slopes	38.7%	Yes
HaB	Haven loam, 2 to 6 percent slopes	1.6%	Yes
He	Haven loam, thick surface layer	0.9%	Yes
PlA	Plymouth loamy coarse sand, 0 to 3 percent slopes	6.2%	No
PlB	Plymouth loamy coarse sand, 3 to 8% slopes	4.4%	No
PlC	Plymouth loamy coarse sand, 8 to 15% slopes	2.4%	No
PmC3	Plymouth gravelly loamy sand, 8 to 15% slopes, eroded	0.1%	No
RdA	Riverhead sandy loam, 0 to 3% slopes	7.0%	Yes
RdB	Riverhead sandy loam, 3 to 8% slopes	7.0%	Yes
RdC	Riverhead sandy loam, 8 to 15% slopes	1.6%	No
RhB	Riverhead and Haven soils, graded, 0 to 8 percent slopes	4.4%	No
Su	Sudbury sandy loam[(1)]	0.8%	Yes

Soil Unit Symbol	Soil Unit Name	Percent of AOI	Capability Class I or II Prime Agricultural Soils (Y/N)
SwA	Swansea muck, 0 to 1% slopes, coastal lowland[(1)]	0.8%	No
Tm	Tidal marsh	2.0%	No
W	Water	2.8%	No
Wd	Walpole sandy loam, coastal lowland, 0 to 3 percent slopes	0.0%	No
TOTAL		**100.0%**	**---**

Source: United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS)

(1) Not found along the Phase 1 or Phase 2 Proposed Action routes.

TABLE 5-2

PREFERRED ALTERNATIVE BOOSTER STATION SITE

SOIL MAPPING UNITS WITHIN MAIN STREET PROPOSED BOOSTER STATION

Soil Unit Symbol	Soil Unit Name	Percent of AOI	Capability Class I or II Prime Agricultural Soils (Y/N)
PlB	Plymouth loamy coarse sand, 3-8% slopes	78.1%	No
He	Haven loam, thick surface layer	21.9%	Yes
TOTAL	**---**	**100.0%**	**---**

Source: United States Department of Agriculture (USDA) Natural Resources Conservation Service (NRCS)