

**ATLANTIC COAST PIPELINE, LLC  
ATLANTIC COAST PIPELINE**

**Construction, Operations, and Maintenance Plans**

**ATTACHMENT J**

**Non Native Invasive Plant Species with Herbicide Treatment**

**ATTACHMENT J**

Non-Native Invasive Plant Species along the Atlantic Coast Pipeline within the Monongahela National Forest

Facility, State, County	Milepost	Invasive Plant Species	Prevalence (percent)	Regional Forester's Sensitive Species (RFSS) Plants <sup>a</sup> and Aquatic Features <sup>b</sup>	Proposed Herbicide	Rate of Application	Time of Application	Primary Treatment Method <sup>c</sup>	Secondary Treatment Method
<b>AP-1</b>									
Pocahontas	71.7	<i>Berberis thunbergii</i> , <i>Tussilago farfara</i>	0-10, 25-50	<i>Trifolium stoloniferum</i> , PEM wetland	none	n/a	n/a	Hand pulling	Spot herbicide application greater than 60 feet from RFSS
Pocahontas	71.9	<i>Alliaria petiolata</i>	25-50	Waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Pocahontas	72.0	<i>Alliaria petiolata</i>	0-10	Waterbodies	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Pocahontas	73.3	<i>Alliaria petiolata</i>	25-50		Triclopyr Ester	2.4-4.8 quarts of product in water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling
Pocahontas	76.2	<i>Berberis thunbergii</i>	0-10		Triclopyr Ester	6 quarts of product in 100 gallons of an oil-water emulsion	Late Spring and early Summer	Spot herbicide application	Basal spray application
Pocahontas	81.2	<i>Elaeagnus umbellata</i> , <i>Microstegium vimineum</i> , <i>Securigera varia</i> , <i>Alliaria petiolata</i>	25-50, 25-50, 75-100, 25-50	Waterbodies	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Cut stump and apply herbicide, spot herbicide application	Basal spray application, hand pulling/mowing
Pocahontas	81.3	<i>Elaeagnus umbellata</i> , <i>Microstegium vimineum</i>	0-10, 25-50		Triclopyr Ester, Sethoxydim	6 quarts of product in 100 gallons of an oil-water emulsion, 1.5% solution in water	Late Spring and early Summer, Consult label for optimal height (when grass is small)	Spot herbicide application	Cut surface, basal spray application, hand pulling/mowing
Pocahontas	81.4	<i>Microstegium vimineum</i>	25-50		Sethoxydim	1.5% solution in water	Consult label for optimal height (when grass is small)	Spot herbicide application	Hand pulling/mowing
Pocahontas	81.5	<i>Berberis thunbergii</i> , <i>Rosa multiflora</i>	0-10	Waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Basal spray application
Pocahontas	81.7	<i>Elaeagnus umbellata</i>	0-10		Triclopyr Ester	6 quarts of product in 100 gallons of an oil-water emulsion	Late Spring and early Summer	Spot herbicide application	Cut surface, basal spray application
Pocahontas	81.8	<i>Securigera varia</i>	25-50		2,4-D Amine (3.7 pounds of active ingredient per gallon)	1% solution in water	In Late Fall and early Spring when native grasses and wildflowers are dormant	Spot herbicide application	Mowing, grubbing
Pocahontas	81.9	<i>Microstegium vimineum</i>	25-50	Waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling/mowing
Pocahontas	82.6	<i>Alliaria petiolata</i>	75-100	<i>Ribes lacustre</i> , PEM Wetland	none	n/a	n/a	Hand pulling	Spot herbicide application greater than 60 feet from RFSS
Pocahontas	82.7	<i>Securigera varia</i> , <i>Microstegium vimineum</i>	0-10, 50-75	PEM Wetland	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Mowing, grubbing
Pocahontas	83.3	<i>Alliaria petiolata</i>	75-100	<i>Gymnocarpium appalachianum</i>	none	n/a	n/a	Hand pulling	Spot herbicide application greater than 60 feet from RFSS
Pocahontas	83.5	<i>Alliaria petiolata</i>	75-100		Triclopyr Ester	2.4-4.8 quarts of product in water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling

<sup>a</sup> The RFSS species have been groundtruthed.  
<sup>b</sup> Aquatic features were analyzed within a 10-foot buffer of the invasive plant species.  
<sup>c</sup> All treatment methods follow standard procedures as outlined in the MNF Land and Resource Management Plan (2011).

**ATTACHMENT J (cont'd)**

Non-Native Invasive Plant Species along the Atlantic Coast Pipeline within the George Washington National Forest

Facility, County	Approximate Milepost	Invasive Plant Species	Prevalence(percent)	Occurrence and Analysis Rank (OAR) Species <sup>a</sup> and Aquatic Features <sup>b</sup>	Proposed Herbicide	Rate of Application	Time of Application	Primary Treatment Method <sup>c</sup>	Secondary Treatment Method
<b>AP-1</b>									
Highland	84.0	<i>Rosa multiflora, Alliaria petiolata, Tussilago farfara</i>	0-10, 10-25, 25-50	<i>Panax quinquefolius</i>	none	n/a	n/a	Hand pulling	Spot herbicide application greater than 60 feet from OAR species
Highland	84.4	<i>Alliaria petiolata</i>	0-10		Triclopyr Ester	2.4-4.8 quarts of product in water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling
Highland	84.8	<i>Allaria petiolata</i>	0-10		Triclopyr Ester	2.4-4.8 quarts of product in water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling
Highland	84.9	<i>Rosa multiflora, Allaria petiolata</i>	0-10, 0-10		Triclopyr Ester	2.4-4.8 quarts of product in water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling
Highland	85.0	<i>Alliaria petiolata, Elaeagnus umbellata</i>	0-10, 10-25	Waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Highland	85.1	<i>Allaria petiolata, Rosa multiflora, Elaeagnus umbellata</i>	10-25, 0-10, 0-10	Waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Highland	85.2	<i>Alliaria petiolata, Microstegium vimineum, Berberis thunbergii, Rosa multiflora</i>	0-10, 25-50, 0-10, 0-10	<i>Isotria medeoloides</i>	none	n/a	n/a	Hand pulling	Spot herbicide application greater than 60 feet from OAR species
Highland	85.3	<i>Alliaria petiolata, Stellaria media</i>	0-10, 0-10	<i>Isotria medeoloides, Panax quinquefolius</i>	none	n/a	n/a	Hand pulling	Spot herbicide application greater than 60 feet from OAR species
Highland	85.4	<i>Alliaria petiolata</i>	0-10	PFO wetland, Waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Highland	85.8	<i>Alliaria petiolata</i>	0-10		Triclopyr Ester	2.4-4.8 quarts of product in water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling
Highland	86.0	<i>Alliaria petiolata, Elaeagnus umbellata</i>	0-10, 0-10		Triclopyr Ester	2.4-4.8 quarts of product in water, 6 quarts of product in 100 gallons of an oil-water emulsion	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant, Late Spring and early Summer	Spot herbicide application	Hand pulling, cut surface, basal spray application
Highland	86.3	<i>Berberis thunbergii, Alliaria petiolata, Elaeagnus umbellata, Rosa multiflora</i>	0-10, 10-25, 0-10, 0-10		Triclopyr Ester	2.4-4.8 quarts of product in water, 6 quarts of product in 100 gallons of an oil-water emulsion	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant, Late Spring and early Summer	Spot herbicide application	Hand pulling, cut surface, basal spray application
Highland	86.5	<i>Alliaria petiolata</i>	0-10		Triclopyr Ester	2.4-4.8 quarts of product in water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling
Bath	93.7	<i>Alliaria petiolata, Microstegium vimineum, Tussilago farfara, Securigera varia, Rosa multiflora, Celastrus orbiculatus, Elaeagnus umbellata, Lespedeza cuneata</i>	10-25, 25-50, 25-50, 0-10, 10-25, 0-10	Waterbodies	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling

**ATTACHMENT J (cont'd)**

Non-Native Invasive Plant Species along the Atlantic Coast Pipeline within the George Washington National Forest

Facility, County	Approximate Milepost	Invasive Plant Species	Prevalence(percent)	Occurrence and Analysis Rank (OAR) Species <sup>a</sup> and Aquatic Features <sup>b</sup>	Proposed Herbicide	Rate of Application	Time of Application	Primary Treatment Method <sup>c</sup>	Secondary Treatment Method
Bath	96.3	<i>Securigera varia, Alliaria petiolata</i>	10-25, 0-10		2,4-D Amine (3.7 pounds of active ingredient per gallon), Triclopyr Ester	1% solution in water, 2.4-4.8 quarts of product in water	In Late Fall and early Spring when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling, mowing, grubbing
Bath	96.4	<i>Rosa multiflora</i>	0-10	Open waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Bath	98.1	<i>Glechoma hederacea, Microstegium vimineum, Alliaria petiolata</i>	0-10, 0-10, 0-10		Triclopyr Ester, Pendamethalin	2.4-4.8 quarts of product in water for both	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant, Early Spring	Spot herbicide application	Mechanical/hand pulling
Bath	99.5	<i>Rosa multiflora</i>	0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Bath	99.6	<i>Lespedeza cuneata, Securigera varia, Microstegium vimineum</i>	0-10, 0-10, 0-10		2,4-D Amine (3.7 pounds of active ingredient per gallon), Triclopyr Ester	1% solution in water, 2.4-4.8 quarts of product in water	In Late Fall and early Spring when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling, mowing, grubbing
Bath	99.7	<i>Lespedeza cuneata, Rosa multiflora</i>	0-10, 0-10		Triclopyr Ester	2.4-4.8 quarts of product in water	In Late Fall and early Spring when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling, mowing, grubbing
Bath	99.8	<i>Microstegium vimineum, Lespedeza cuneata, Securigera varia</i>	0-10, 0-10, 0-10		2,4-D Amine (3.7 pounds of active ingredient per gallon), Triclopyr Ester	1% solution in water, 2.4-4.8 quarts of product in water	In Late Fall and early Spring when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling, mowing, grubbing
Augusta	116.4	<i>Lonicera morrowii, Allaria petiolata</i>	0-10, 0-10	Waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	116.6	<i>Ailanthus altissima, Berberis thunbergii</i>	0-10, 0-10		Triclopyr Ester, Glyphosate Amine Salt	2.4-4.8 quarts of product in water for both	In Late Fall and early Spring when native grasses and wildflowers are dormant	Spot herbicide application	Mechanical/hand pulling
Augusta	116.7	<i>Lonicera morrowii, Tussilago fanfara, Elaeagnus umbellata, Stellaria media</i>	0-10, 0-10, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	116.8	<i>Ailanthus altissima</i>	0-10		Triclopyr Ester	2.4-4.8 quarts of product in water	In Late Fall and early Spring when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling, mowing, grubbing
Augusta	116.9	<i>Lonicera morrowii, Lonicera tatarica</i>	0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	117.0	<i>Rumex crispus ssp. crisp, Ailanthus altissima, Commelina communis, Lysimachia nummularia, Microstegium vimineum, Persicaria longiseta, Rosa multiflora, Rubus phoenicolasius, Securigera varia</i>	0-10, 0-10, 0-10, 0-10, 10-25, 0-10, 0-10, 0-10, 0-10	Waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling

**ATTACHMENT J (cont'd)**

Non-Native Invasive Plant Species along the Atlantic Coast Pipeline within the George Washington National Forest

Facility, County	Approximate Milepost	Invasive Plant Species	Prevalence(percent)	Occurrence and Analysis Rank (OAR) Species <sup>a</sup> and Aquatic Features <sup>b</sup>	Proposed Herbicide	Rate of Application	Time of Application	Primary Treatment Method <sup>c</sup>	Secondary Treatment Method
Augusta	117.1	<i>Ailanthus altissima</i> , <i>Elaeagnus umbellata</i> , <i>Lonicera maackii</i> , <i>Commelina communis</i> , <i>Lysimachia nummularia</i> , <i>Microstegium vimineum</i> , <i>Persicaria longisetata</i> , <i>Rosa multiflora</i> , <i>Rubus phoenicolasius</i> , <i>Rumex crispus ssp. crisp</i> , <i>Securigera varia</i> , <i>Lonicera morrowii</i> , <i>Lespedeza cuneata</i> , <i>Lonicera tatarica</i> , <i>Alliaria petiolata</i> , <i>Berberis thunbergii</i> , <i>Celastrus orbiculatus</i>	0-10, 0-10, 0-10, 0-10, 0-10, 10-25, 0-10, 0-10, 0-10, 0-10, 0-10, 10-25, 10-25, 0-10, 0-10, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	117.2	<i>Lonicera morrowii</i> , <i>Ailanthus altissima</i> , <i>Lysimachia nummularia</i> , <i>Microstegium vimineum</i> , <i>Persicaria longisetata</i> , <i>Rosa multiflora</i> , <i>Rubus phoenicolasius</i> , <i>Rumex crispus ssp. crisp</i> , <i>Securigera varia</i> , <i>Alliaria petiolata</i> , <i>Berberis thunbergii</i> , <i>Celastrus orbiculatus</i> , <i>Commelina communis</i> , <i>Elaeagnus umbellata</i> , <i>Lespedeza cuneata</i> , <i>Lonicera tatarica</i>	0-10, 0-10, 10-25, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10, 10-25		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	117.3	<i>Microstegium vimineum</i> , <i>Lonicera morrowii</i> , <i>Rosa multiflora</i>	0-10, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	117.6	<i>Lonicera morrowii</i>	0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	117.8	<i>Microstegium vimineum</i>	50-75		Pendamehalin	2.4-4.8 quarts of product in water	Early Spring	Spot herbicide application	Hand pulling/mowing
Augusta	117.9	<i>Ailanthus altissima</i> , <i>Commelina communis</i> , <i>Lysimachia nummularia</i> , <i>Microstegium vimineum</i> , <i>Persicaria longisetata</i> , <i>Rosa multiflora</i> , <i>Rubus phoenicolasius</i> , <i>Rumex crispus ssp. crisp</i> , <i>Securigera varia</i>	0-10, 0-10, 0-10, 10-25, 0-10, 0-10, 0-10, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	118.0	<i>Rosa multiflora</i>	0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	118.2	<i>Stellaria media</i> , <i>Elaeagnus umbellata</i>	0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	118.3	<i>Microstegium vimineum</i>	0-10		Pendamehalin	2.4-4.8 quarts of product in water	Early Spring	Spot herbicide application	Hand pulling/mowing
Augusta	118.4	<i>Ailanthus altissima</i> , <i>Commelina communis</i> , <i>Lysimachia nummularia</i> , <i>Microstegium vimineum</i> , <i>Persicaria longisetata</i> , <i>Rosa multiflora</i> , <i>Rubus phoenicolasius</i> , <i>Rumex crispus ssp. crisp</i> , <i>Securigera varia</i>	0-10, 0-10, 0-10, 10-25, 0-10, 0-10, 0-10, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	118.7	<i>Ailanthus altissima</i> , <i>Commelina communis</i> , <i>Lysimachia nummularia</i> , <i>Microstegium vimineum</i> , <i>Persicaria longisetata</i> , <i>Rosa multiflora</i> , <i>Rubus phoenicolasius</i> , <i>Rumex crispus ssp. crisp</i> , <i>Securigera varia</i> , <i>Lespedeza cuneata</i> , <i>Lolium arundinaceum</i>	0-10, 0-10, 0-10, 10-25, 0-10, 0-10, 0-10, 0-10, 0-10, 10-25, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	119.1	<i>Rosa multiflora</i> , <i>Rubus phoenicolasius</i> , <i>Rumex crispus ssp. crisp</i> , <i>Securigera varia</i>	0-10, 0-10, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	119.4	<i>Lespedeza cuneata</i> , <i>Lolium arundinaceum</i> , <i>Microstegium vimineum</i> , <i>Rumex crispus ssp. crisp</i> , <i>Securigera varia</i>	10-25, 0-10, 10-25, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	119.7	<i>Rumex crispus ssp. crisp</i> , <i>Securigera varia</i> , <i>Lespedeza cuneata</i> , <i>Lolium arundinaceum</i> , <i>Microstegium vimineum</i>	0-10, 0-10, 10-25, 0-10, 10-25		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling

**ATTACHMENT J (cont'd)**

Non-Native Invasive Plant Species along the Atlantic Coast Pipeline within the George Washington National Forest

Facility, County	Approximate Milepost	Invasive Plant Species	Prevalence(percent)	Occurrence and Analysis Rank (OAR) Species <sup>a</sup> and Aquatic Features <sup>b</sup>	Proposed Herbicide	Rate of Application	Time of Application	Primary Treatment Method <sup>c</sup>	Secondary Treatment Method
Augusta	120.2	<i>Lysimachia nummularia, Microstegium vimineum, Persicaria longisetata, Rosa multiflora, Rubus phoenicolasius, Rumex crispus ssp. crisp, Securigera varia, Ailanthus altissima, Commelina communis, Glechoma hederacea, Lonicera tatarica</i>	0-10, 10-25, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10	Waterbodies	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	120.3	<i>Rosa multiflora, Elaeagnus umbellata, Rubus phoenicolasius</i>	0-10, 0-10, 0-10		Triclopyr Ester	2.4-4.8 quarts of product in water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling
Augusta	120.4	<i>Ailanthus altissima, Commelina communis, Lysimachia nummularia, Rumex crispus ssp. crisp, Microstegium vimineum, Persicaria longisetata, Rosa multiflora, Rubus phoenicolasius, Securigera varia</i>	0-10, 0-10, 0-10, 0-10, 10-25, 0-10, 0-10, 0-10, 0-10	PSS wetland, Waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	120.6	<i>Lonicera tatarica, Lysimachia nummularia, Microstegium vimineum, Persicaria longisetata, Commelina communis, Elaeagnus umbellata, Lespedeza cuneata, Rosa multiflora, Ailanthus altissima, Alliaria petiolata, Berberis thunbergii, Celastrus orbiculatus</i>	0-10, 0-10, 10-25, 0-10, 0-10, 0-10, 10-25, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	121.1	<i>Rosa multiflora, Ailanthus altissima, Tussilago farfara, Berberis japonica</i>	0-10, 10-25, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	121.2	<i>Lespedeza cuneata, Lolium arundinaceum, Microstegium vimineum, Rumex crispus ssp. crisp, Securigera varia</i>	10-25, 0-10, 10-25, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	121.3	<i>Rosa multiflora</i>	0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	121.4	<i>Ailanthus altissima, Commelina communis, Lysimachia nummularia, Microstegium vimineum, Persicaria longisetata, Rosa multiflora, Rubus phoenicolasius, Rumex crispus ssp. crisp, Securigera varia</i>	0-10, 0-10, 0-10, 10-25, 0-10, 0-10, 0-10, 0-10, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	121.7	<i>Lespedeza cuneata, Lolium arundinaceum, Microstegium vimineum, Rumex crispus ssp. crisp, Securigera varia</i>	10-25, 0-10, 10-25, 0-10, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	121.8	<i>Securigera varia, Commelina communis, Lysimachia nummularia, Microstegium vimineum, Persicaria longisetata, Rosa multiflora, Rubus phoenicolasius, Rumex crispus ssp. crisp, Lespedeza cuneata, Lolium arundinaceum</i>	0-10, 0-10, 0-10, 10-25, 0-10, 0-10, 0-10, 0-10, 10-25, 0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	122.3	<i>Rumex crispus ssp. crisp, Securigera varia, Lespedeza cuneata, Lolium arundinaceum, Microstegium vimineum</i>	0-10, 0-10, 10-25, 0-10, 10-25		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	122.4	<i>Rosa multiflora</i>	0-10		Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	154.4	<i>Microstegium vimineum</i>	10-25	Waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling
Augusta	154.8	<i>Microstegium vimineum</i>	25-50		Pendimethalin	2.4-4.8 quarts of product in water	Early Spring	Spot herbicide application	Hand pulling/mowing
Augusta	155.1	<i>Microstegium vimineum</i>	25-50	Waterbody	Glyphosate Amine Salt	2 gallons of product in 100 gallons of water	Late Spring and early Summer	Spot herbicide application	Hand pulling

**ATTACHMENT J (cont'd)**

Non-Native Invasive Plant Species along the Atlantic Coast Pipeline within the George Washington National Forest

Facility, County	Approximate Milepost	Invasive Plant Species	Prevalence(percent)	Occurrence and Analysis Rank (OAR) Species <sup>a</sup> and Aquatic Features <sup>b</sup>	Proposed Herbicide	Rate of Application	Time of Application	Primary Treatment Method <sup>c</sup>	Secondary Treatment Method
Augusta	158.1	<i>Alliaria petiolata</i>	0-10		Triclopyr Ester	2.4-4.8 quarts of product in water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling
Augusta	158.2	<i>Alliaria petiolata</i>	0-10		Triclopyr Ester	2.4-4.8 quarts of product in water	Late Fall and early Spring to rosettes when native grasses and wildflowers are dormant	Spot herbicide application	Hand pulling

<sup>a</sup> The OAR species have been groundtruthed.  
<sup>b</sup> Aquatic features were analyzed within a 10-foot buffer of the invasive plant species.  
<sup>c</sup> All treatment methods follow standard procedures as outlined in the GWNF Land and Resource Management Plan (2014).