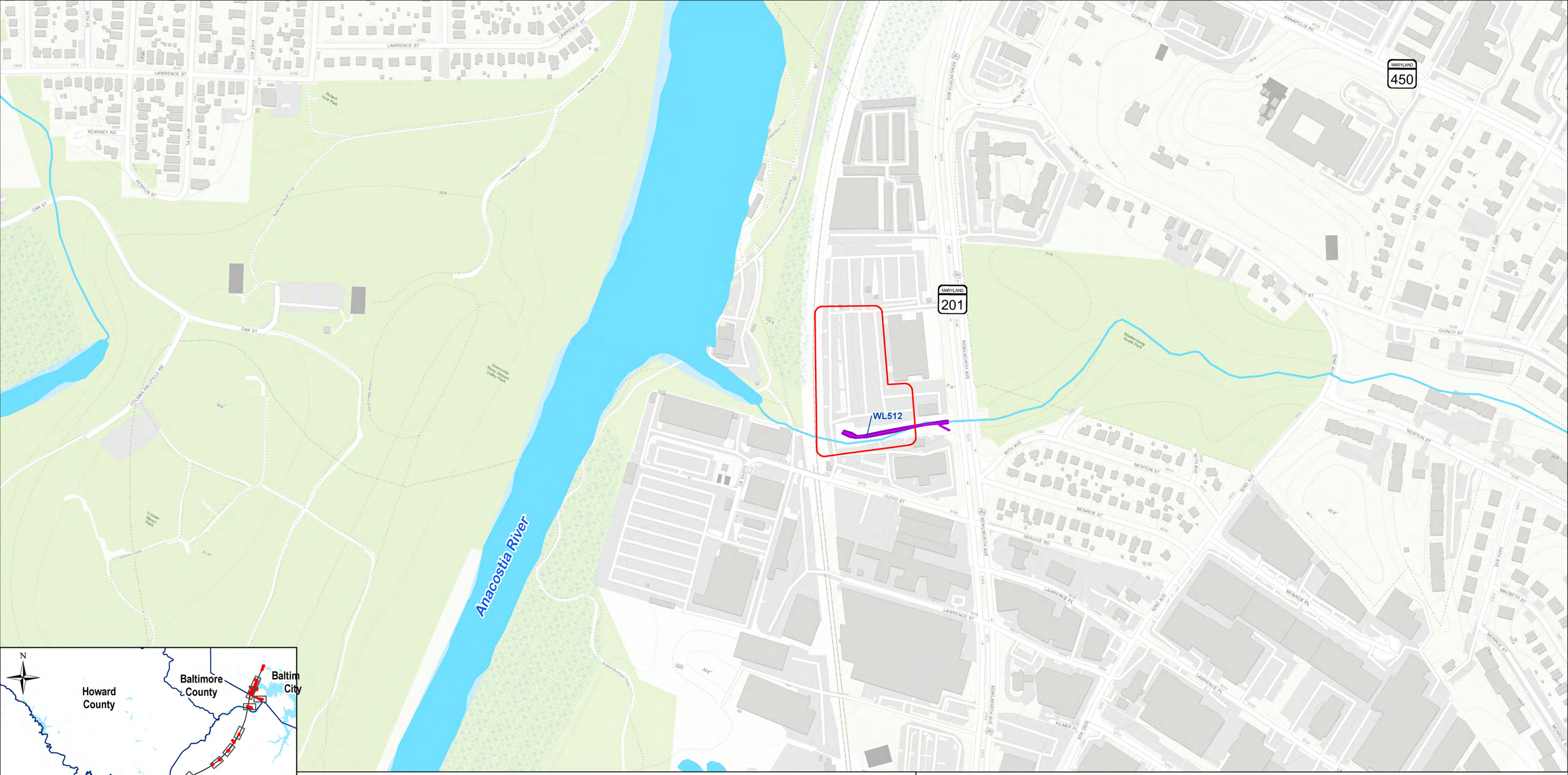
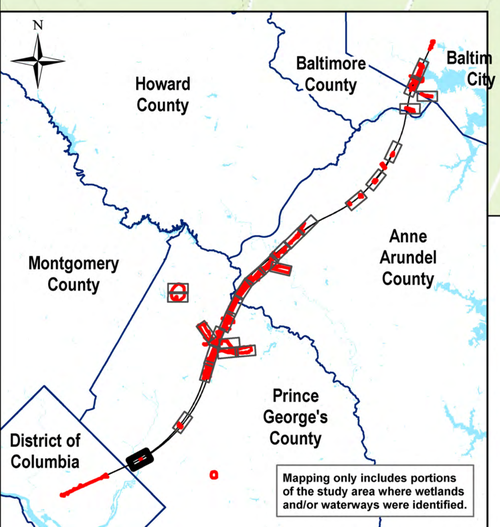
ATTACHMENT E – WETLANDS AND WATERWAYS

E.1 – Wetland Location Maps





GENERAL
- Study Area
- Patuxent Research Refuge
- Wetlands of Special State Concern (MDNR, 2017)
- Published Waters

WATERWAYS (WL)
- Field Delineation
- Desktop Delineation or Extension

WETLANDS (WP)
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- Field Delineation - PSS
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WETLAND SAMPLE PLOTS
- Wetland Plot
- Upland Plot

0 200 400 600 Feet

N

Service Layer Credits: MD iMAP, DNR, USFW
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User

PRELIMINARY DRAFT

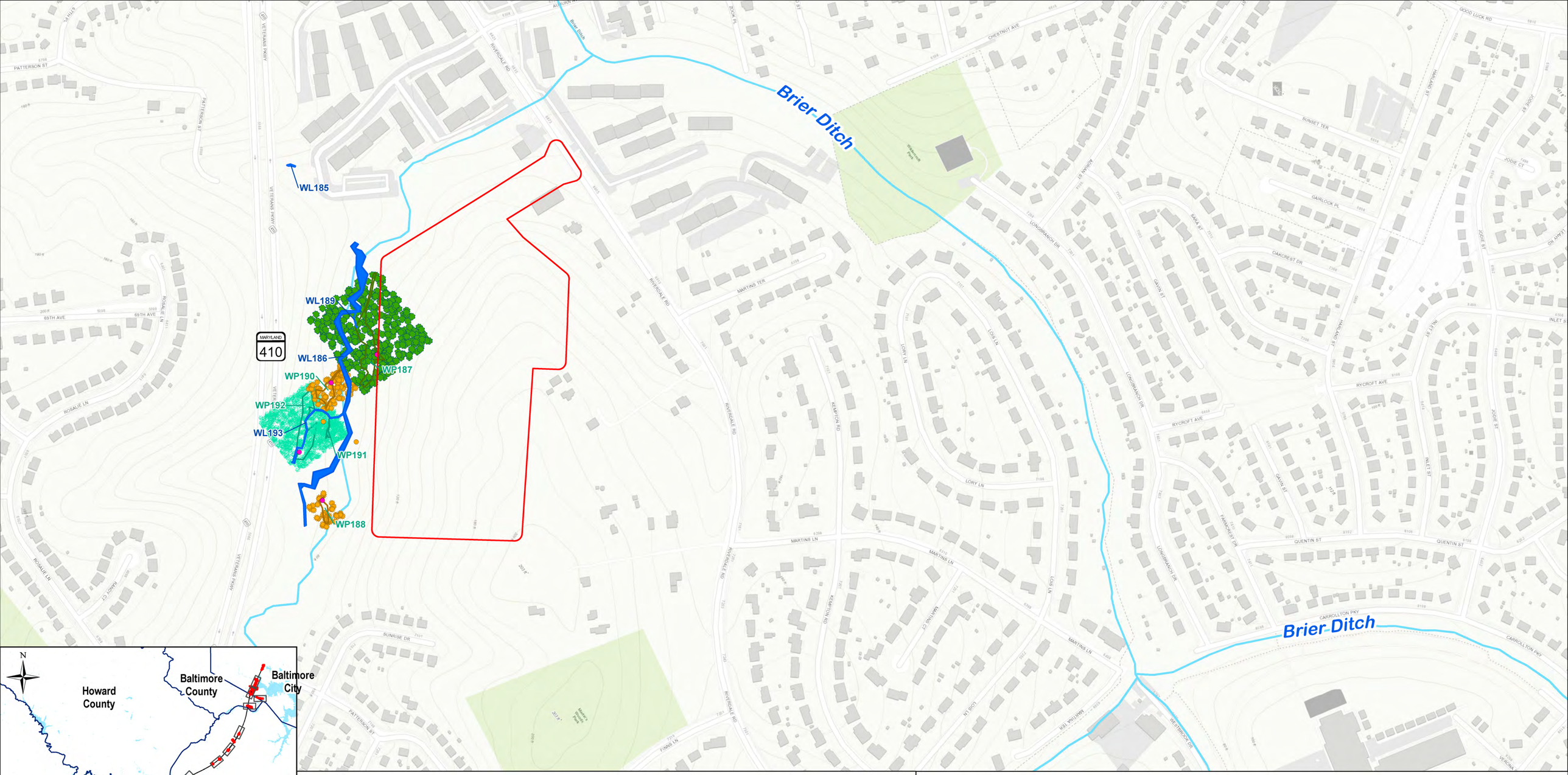
WETLAND LOCATION MAPS

BALTIMORE-WASHINGTON SCMAGLEV PROJECT

Build Alternatives - Template
31x19 - 1 inch = 200'
11x17 - 1 inch = 400'
October 2020

BALTIMORE-WASHINGTON SUPERCONDUCTING MAGLEV PROJECT

STRAUGHAN ENVIRONMENTAL



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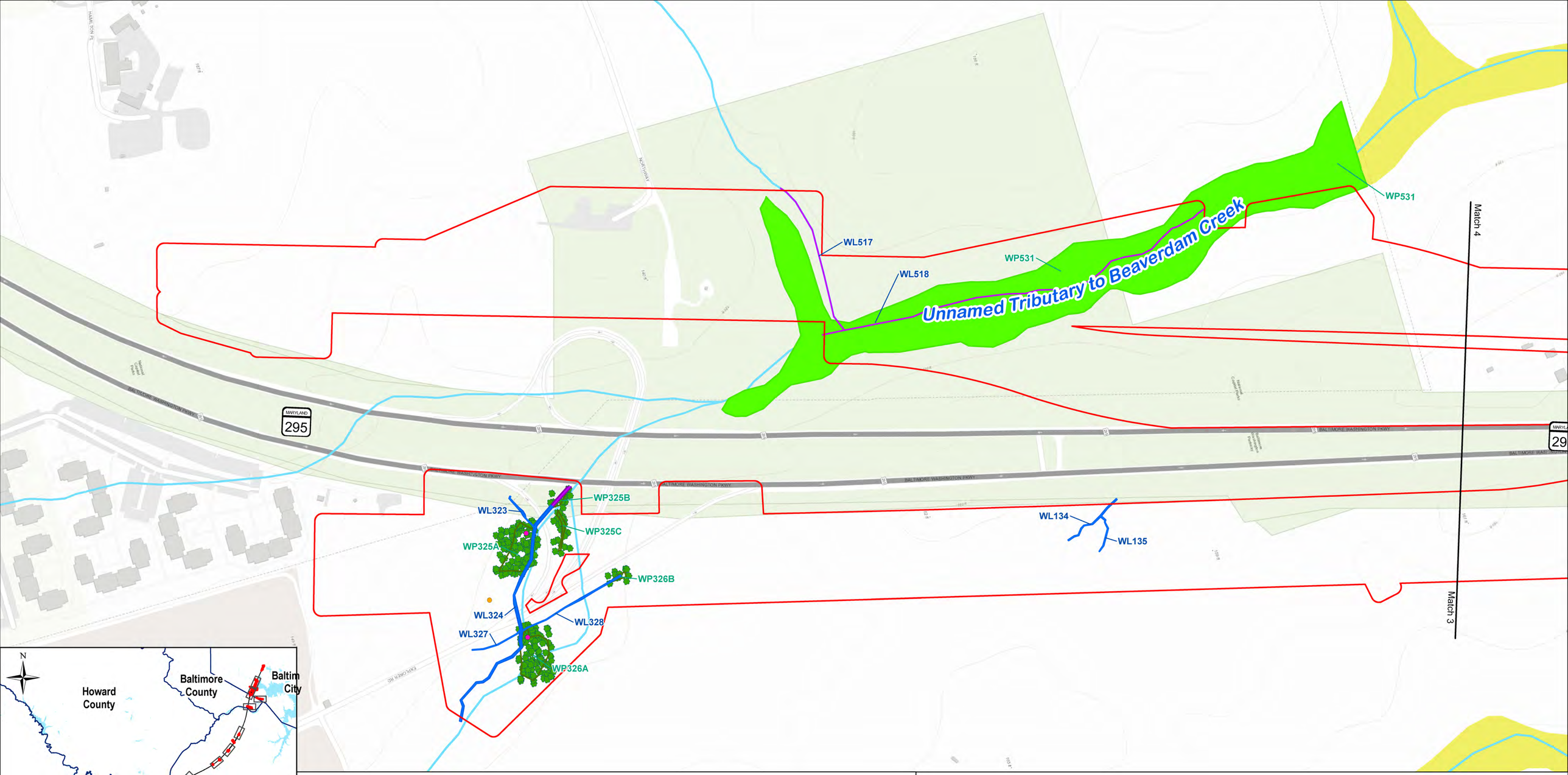

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October 2020

Sheet 3 of 27

BALTIMORE-WASHINGTON SUPERCONDUCTING MAGLEV PROJECT

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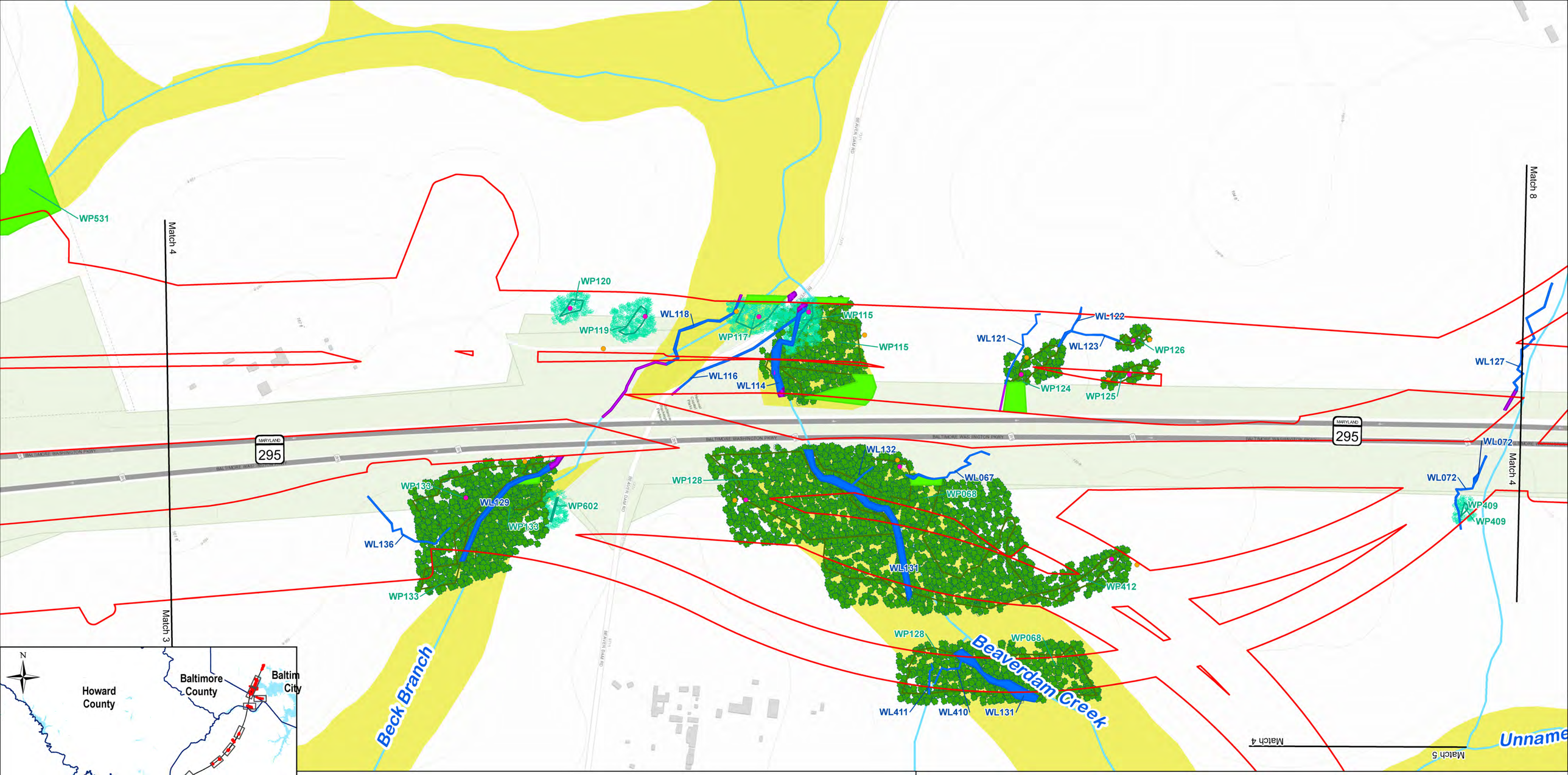

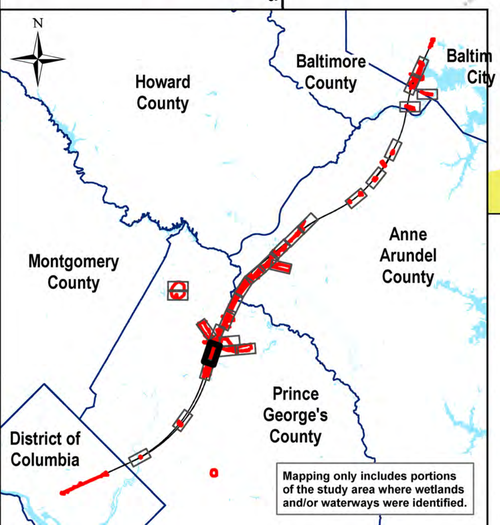

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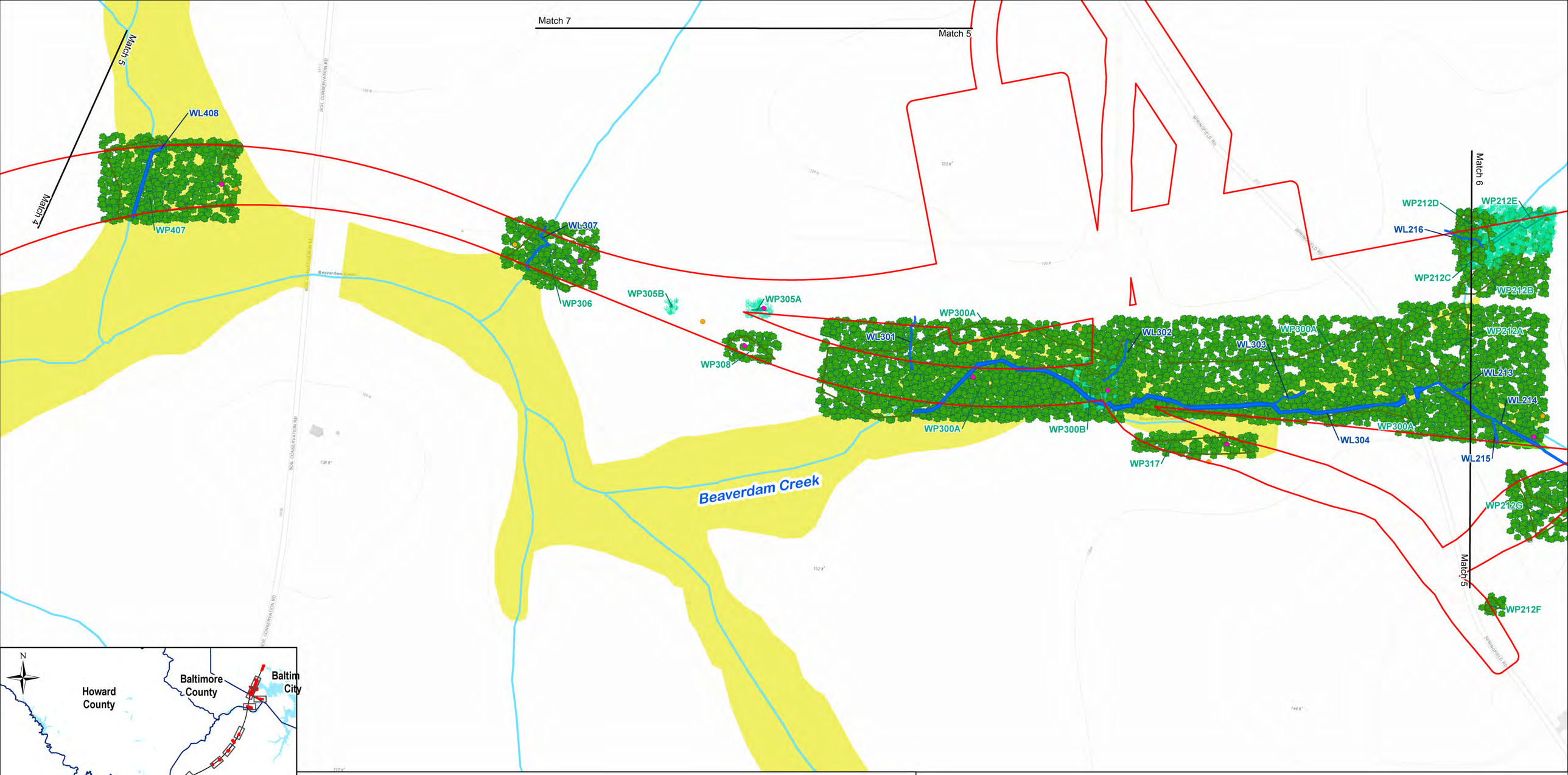

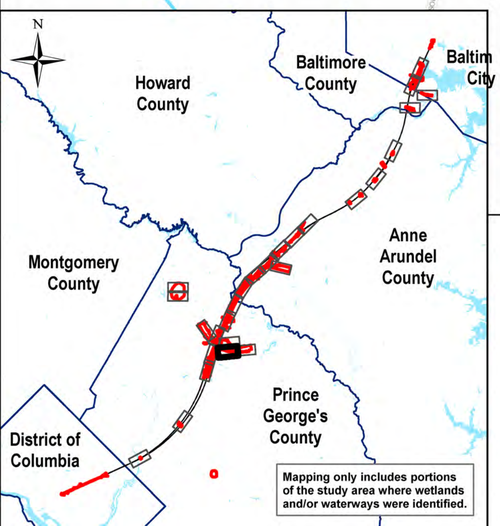

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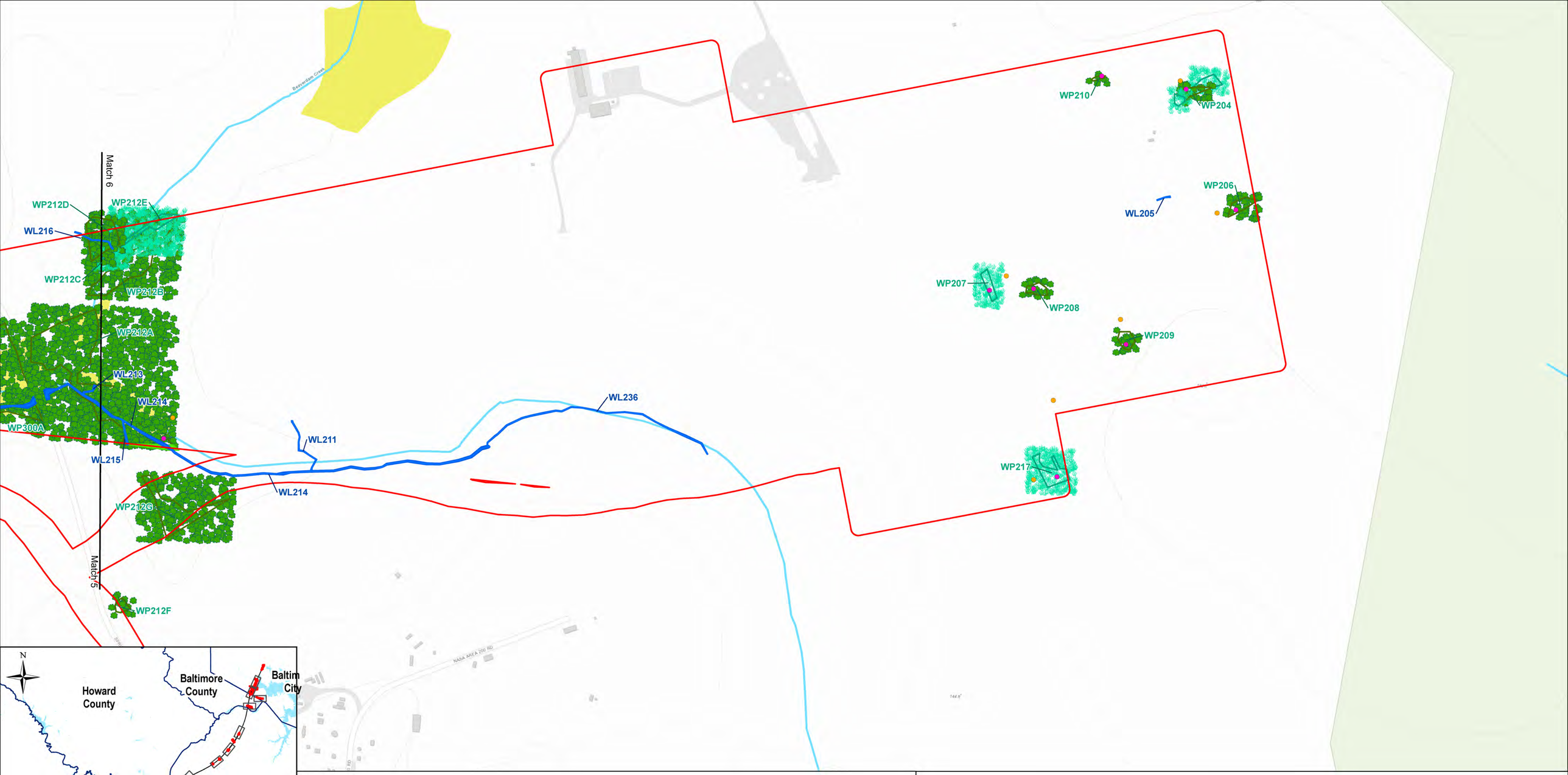

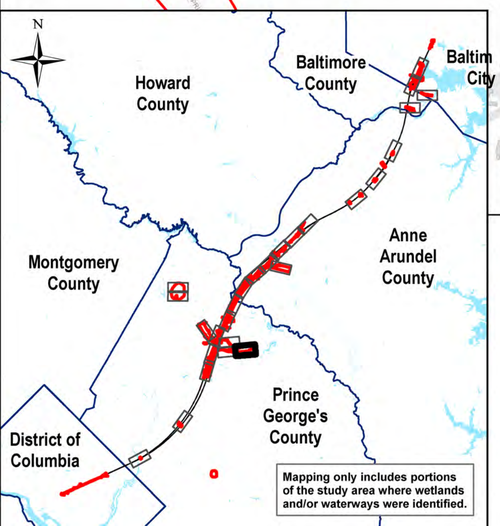

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October 2020

Sheet 6 of 27

BALTIMORE-WASHINGTON SUPERCONDUCTING MAGLEV PROJECT

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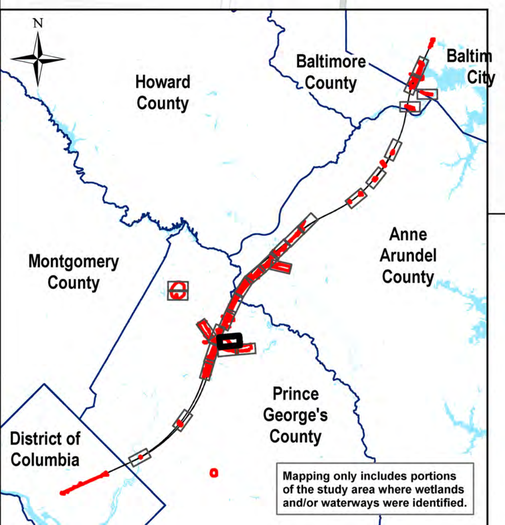
WP314
WP313A
WP313B
WP318
WP315
WP312
WP311B
WP311A
WP316
WP309
WL310
WL319
Match 7
Match 8
Match 7
Match 5
POWDER MILL RD
S PERIMETER RD
SANDY LN
PODC RD
SPRINGFIELD RD
SOIL CONSERVATION RD
13TH ST
F GATE RD
AGRICULTURAL RESEARCH RD



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October 2020

Sheet 7 of 27

BALTIMORE-WASHINGTON SUPERCONDUCTING MAGLEV PROJECT

STRAUGHAN ENVIRONMENTAL

Match 9

Match 8

Match 8

Match 10

Match 4

Match 8

Match 7

Match 8

WP220

WP218

WP219

WP079

WP322

WL321

WL078

WL078

WP079

WP075

WL077

WL076

WL127

WP130

WL072

WL073

WP074

WL077B

WL401

WP402

WL400

WP403

WL404

WL507

WL320

WL319

WL405

WP406

WL080B

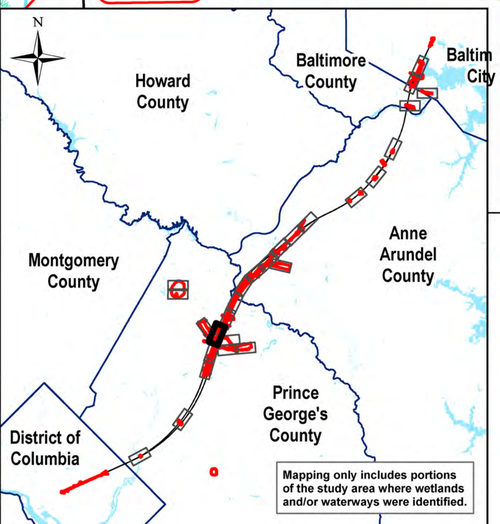
WP500

WL508

WL081

WL080

WL080



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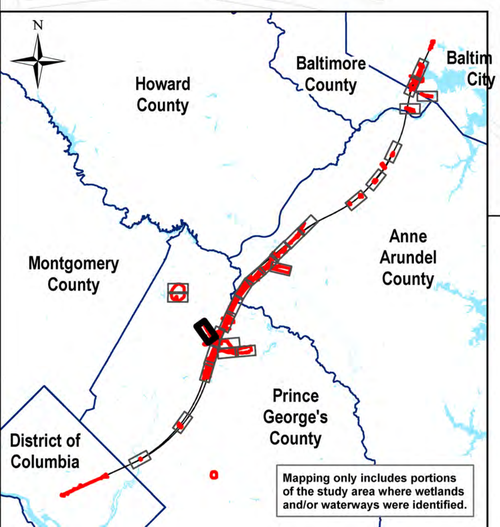

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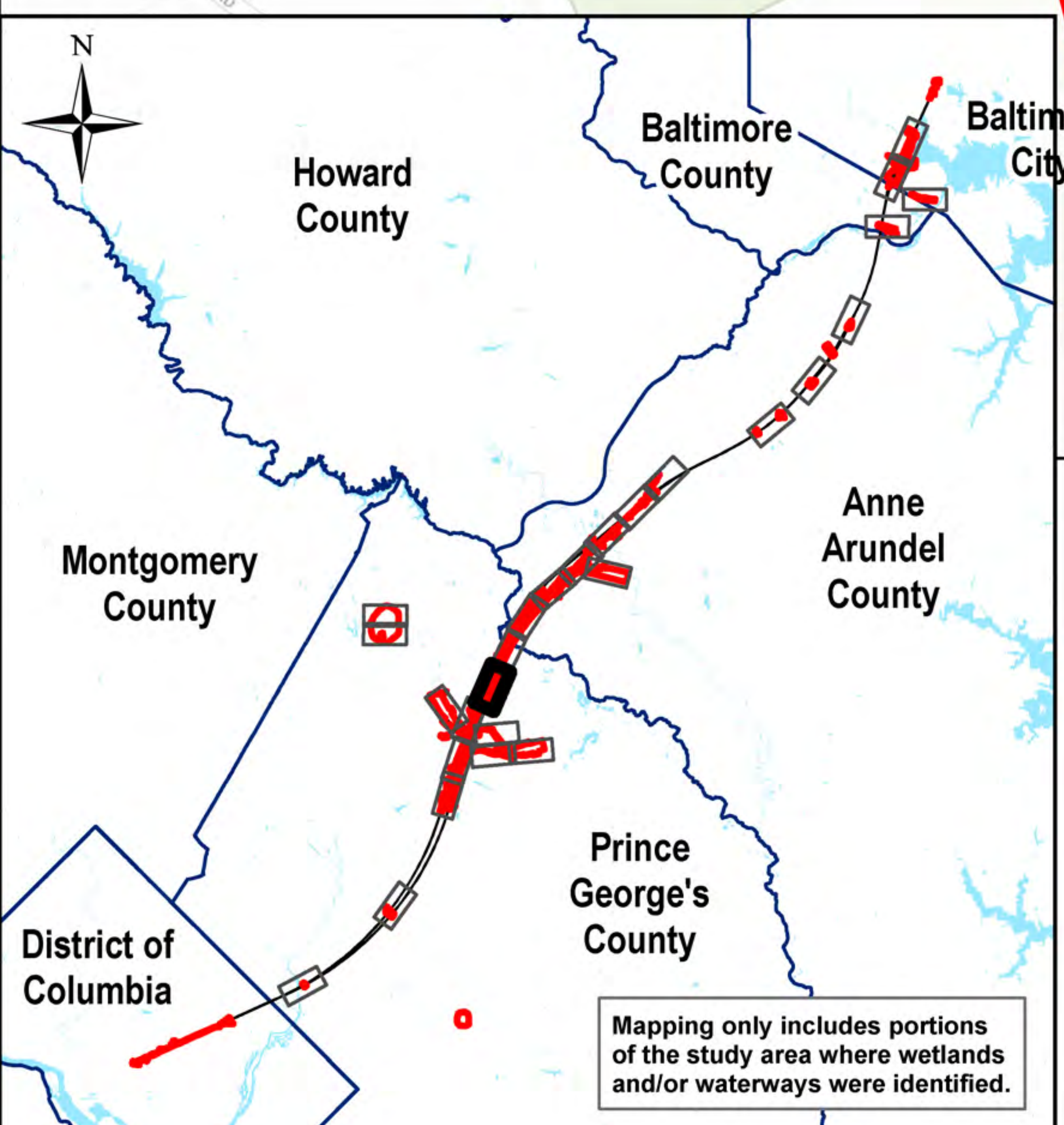

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Sheet 10 of 27

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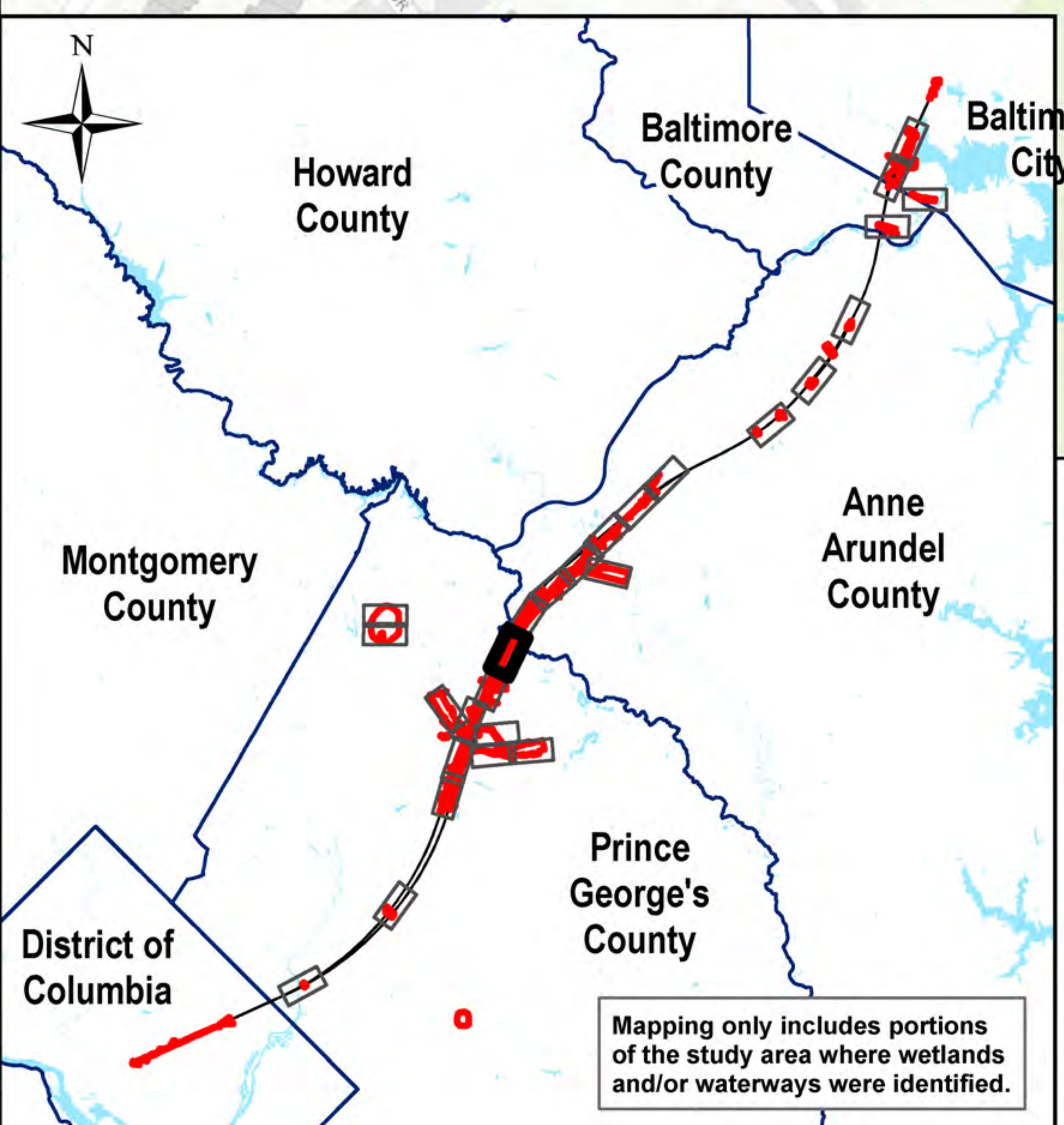

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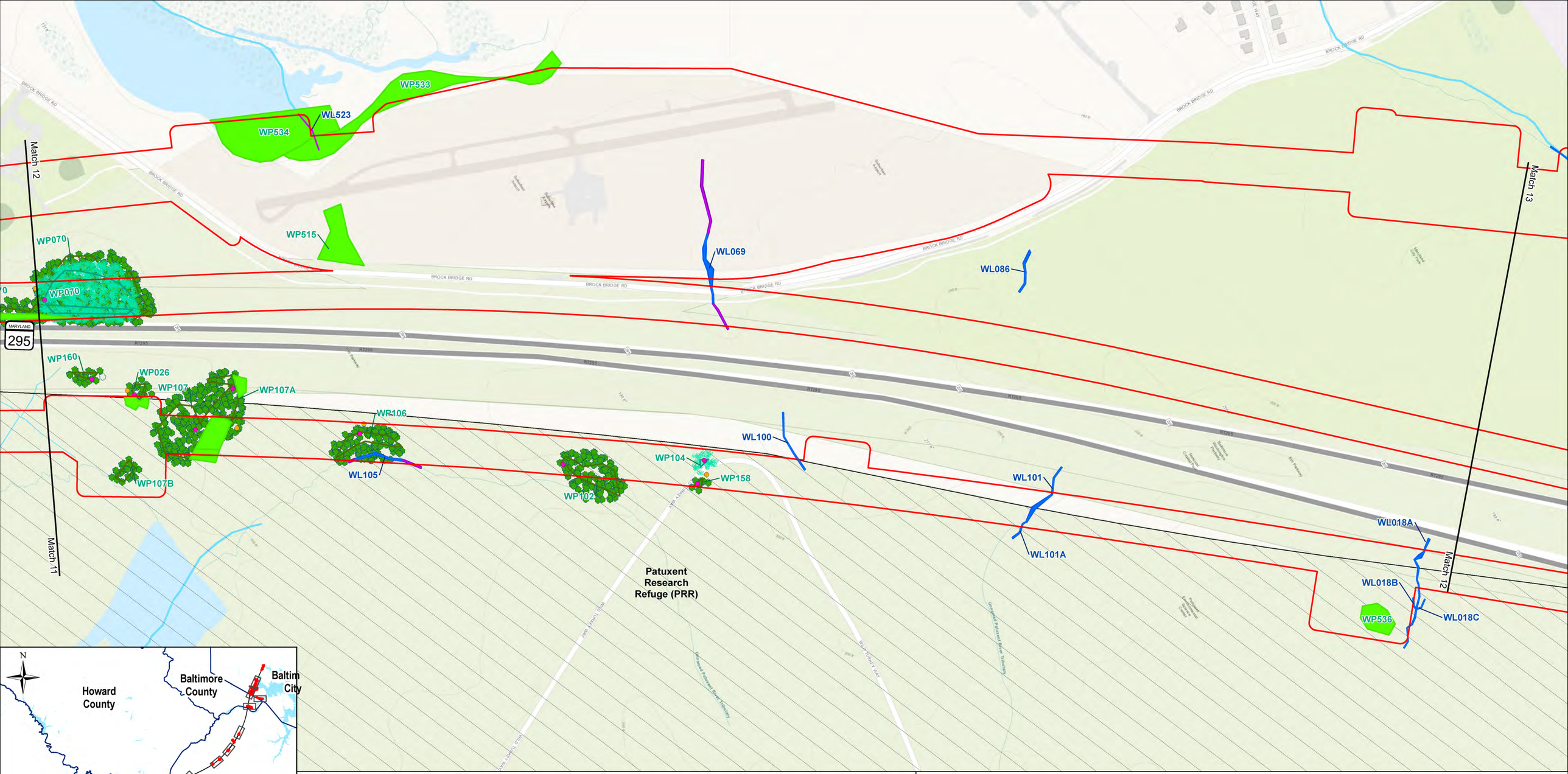

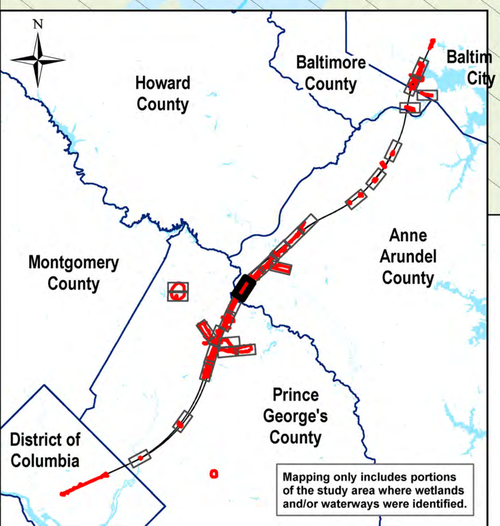

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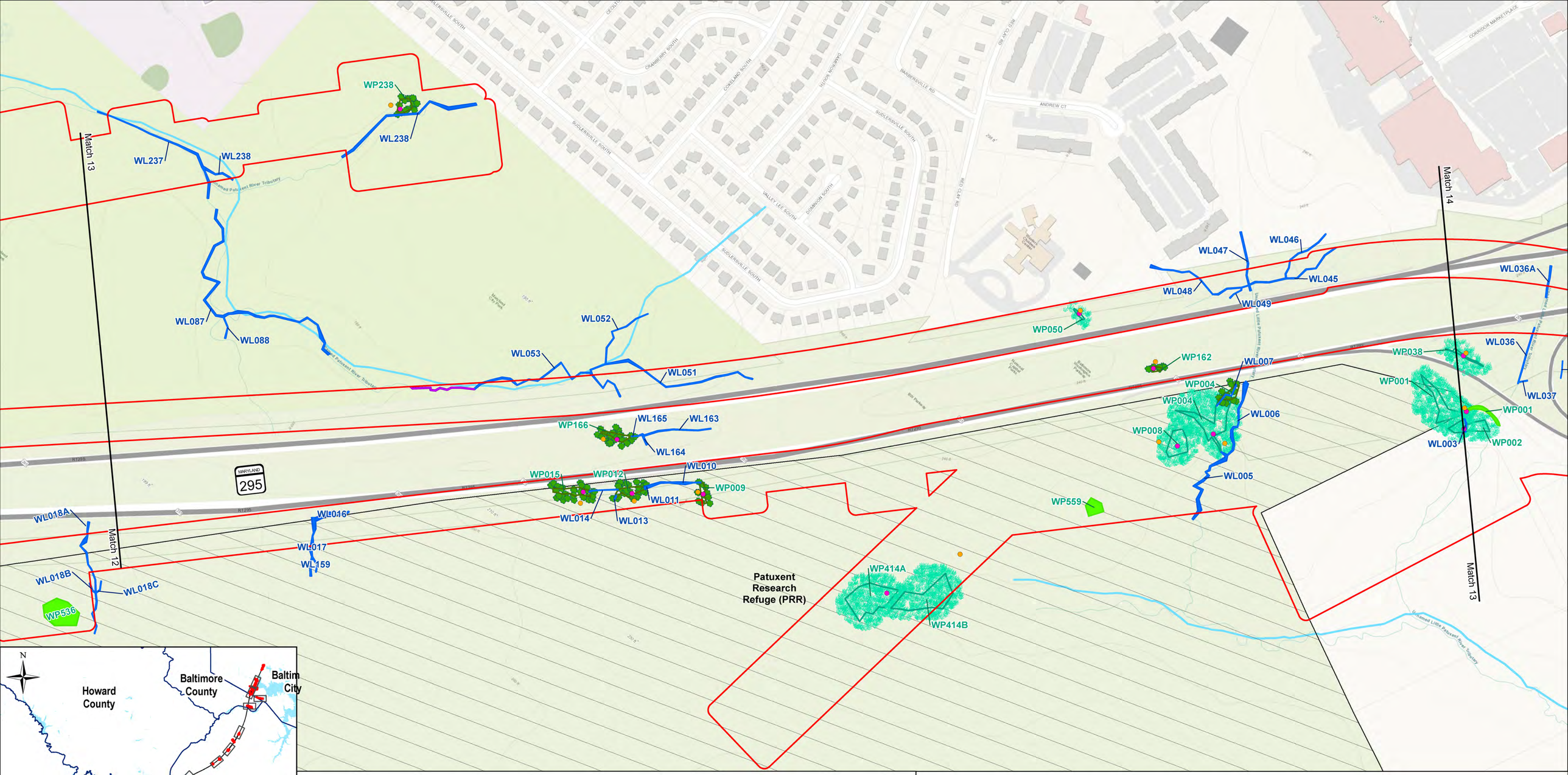

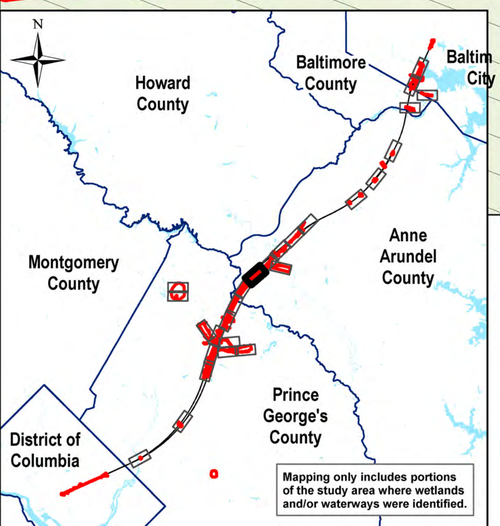

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STRAUGHAN ENVIRONMENTAL

Match 16

Match 14

Match 13

Match 15

Match 14

WL036A

WP038

WL036

WL039

WP001

WL037

Patuxent Research Refuge (PRR)

WP001

WL003

WP002

WP043

WL044

WL040

WL041

WL042

WP532

WP030

WL029

WL155

WP031

WL032

WP156

WL042

WL172

WP173

WP171

WP171

WL042

WP184

WL181

WP182

WP183

MARYLAND 295

INTERSTATE 95

R1295

Unnamed Little Patuxent River Tributary

RUSSETT GRN E

CANNAGE WALK CT

CANNAGE WALK LN

BRUSHYRIDGE RD

RIVER RD

OLD POWDER MILL RD

CENTER AVE

FOREST HAVEN AVE

N

Howard County

Baltimore County

Baltim City

Montgomery County

Anne Arundel County

Prince George's County

District of Columbia

Mapping only includes portions of the study area where wetlands and/or waterways were identified.

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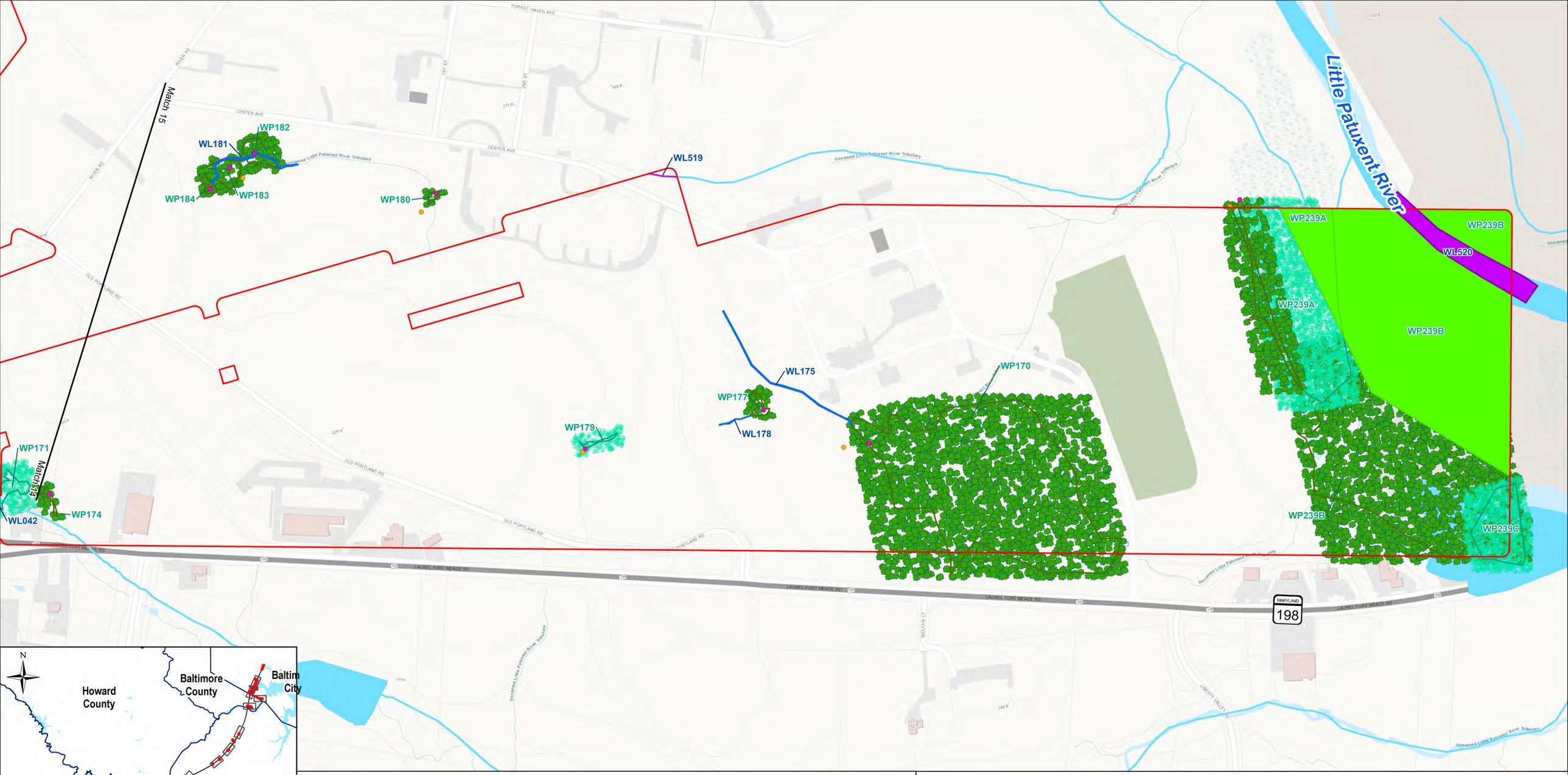

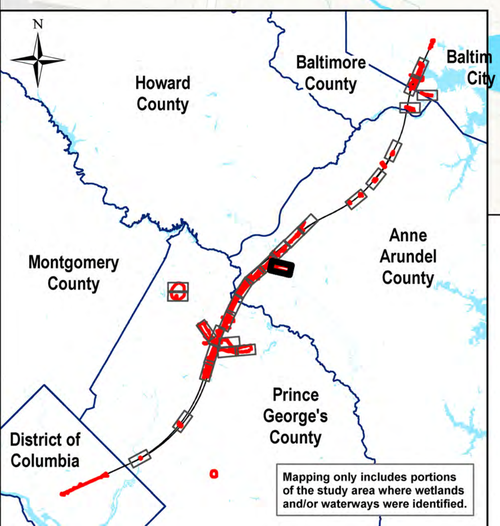

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- Wetlands of Special State Concern (MDNR, 2017)
- Published Waters

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- Desktop Delineation or Extension

WETLANDS (WP)
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WETLAND SAMPLE PLOTS
- Wetland Plot
- Upland Plot

0 200 400 600 Feet

N

Service Layer Credits: MD iMAP, DNR, USFW
Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, GeoBase, IGN, Kadaster NL, Ordnance Survey, Esri Japan, METI, Esri China (Hong Kong), (c) OpenStreetMap contributors, and the GIS User

PRELIMINARY DRAFT

WETLAND LOCATION MAPS

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October 2020

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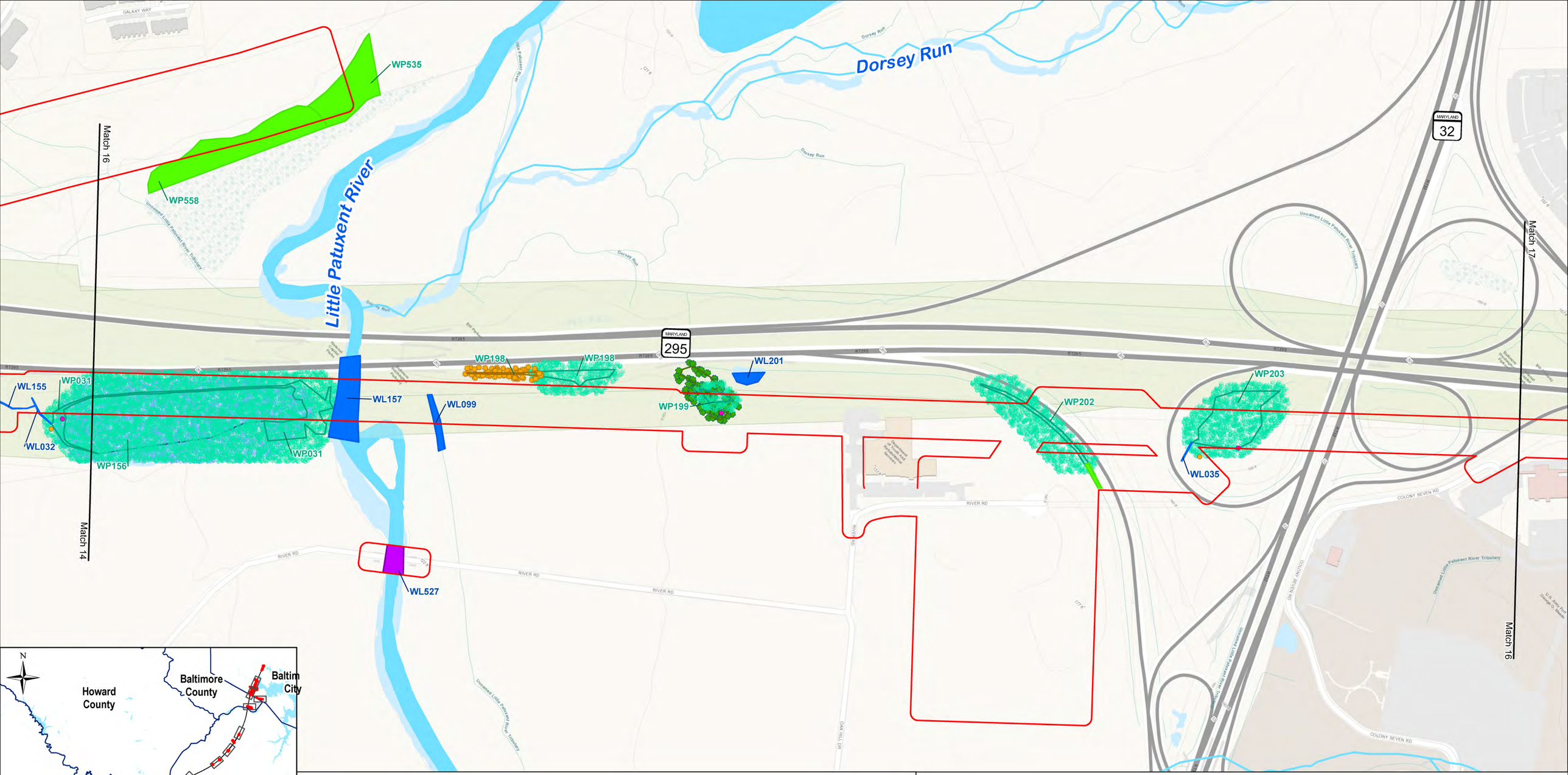
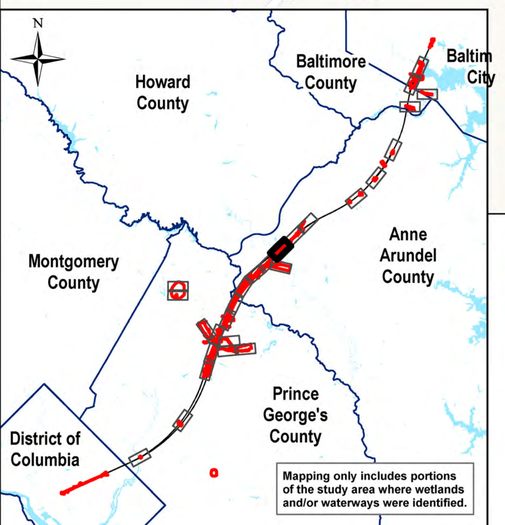
STRAUGHAN ENVIRONMENTAL





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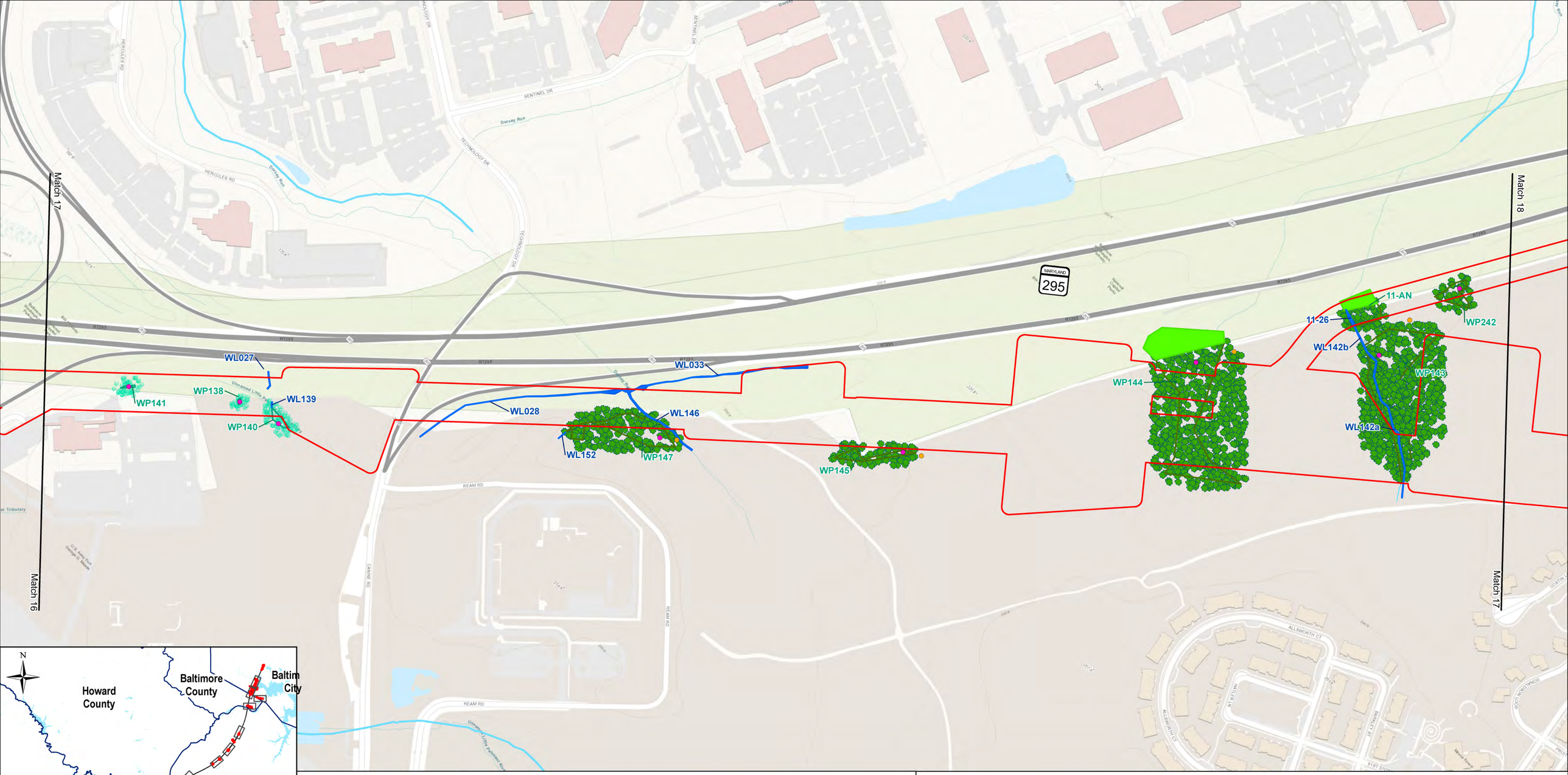

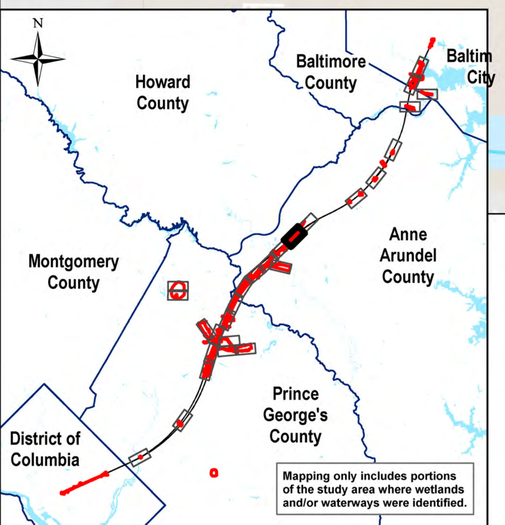

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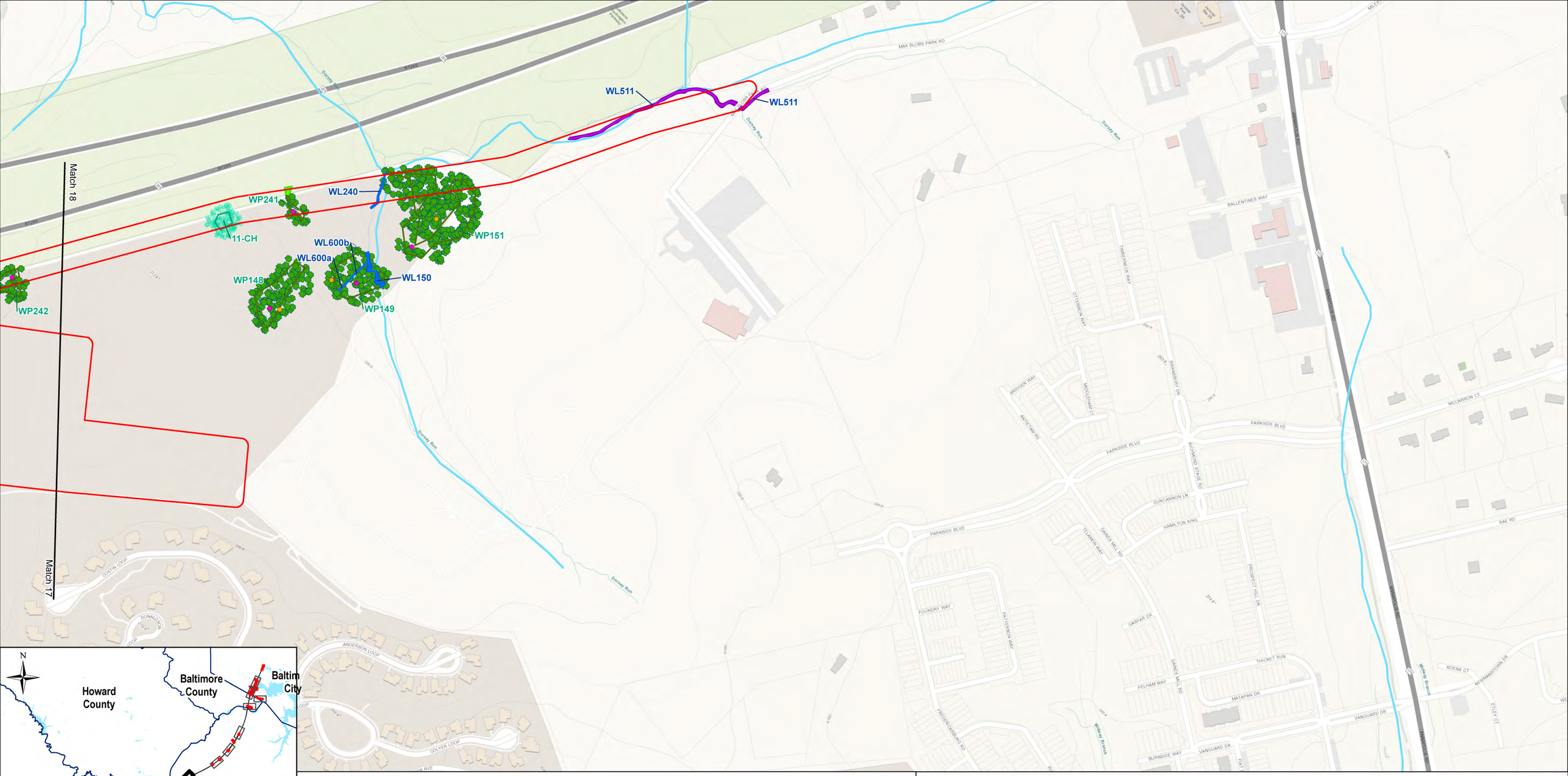

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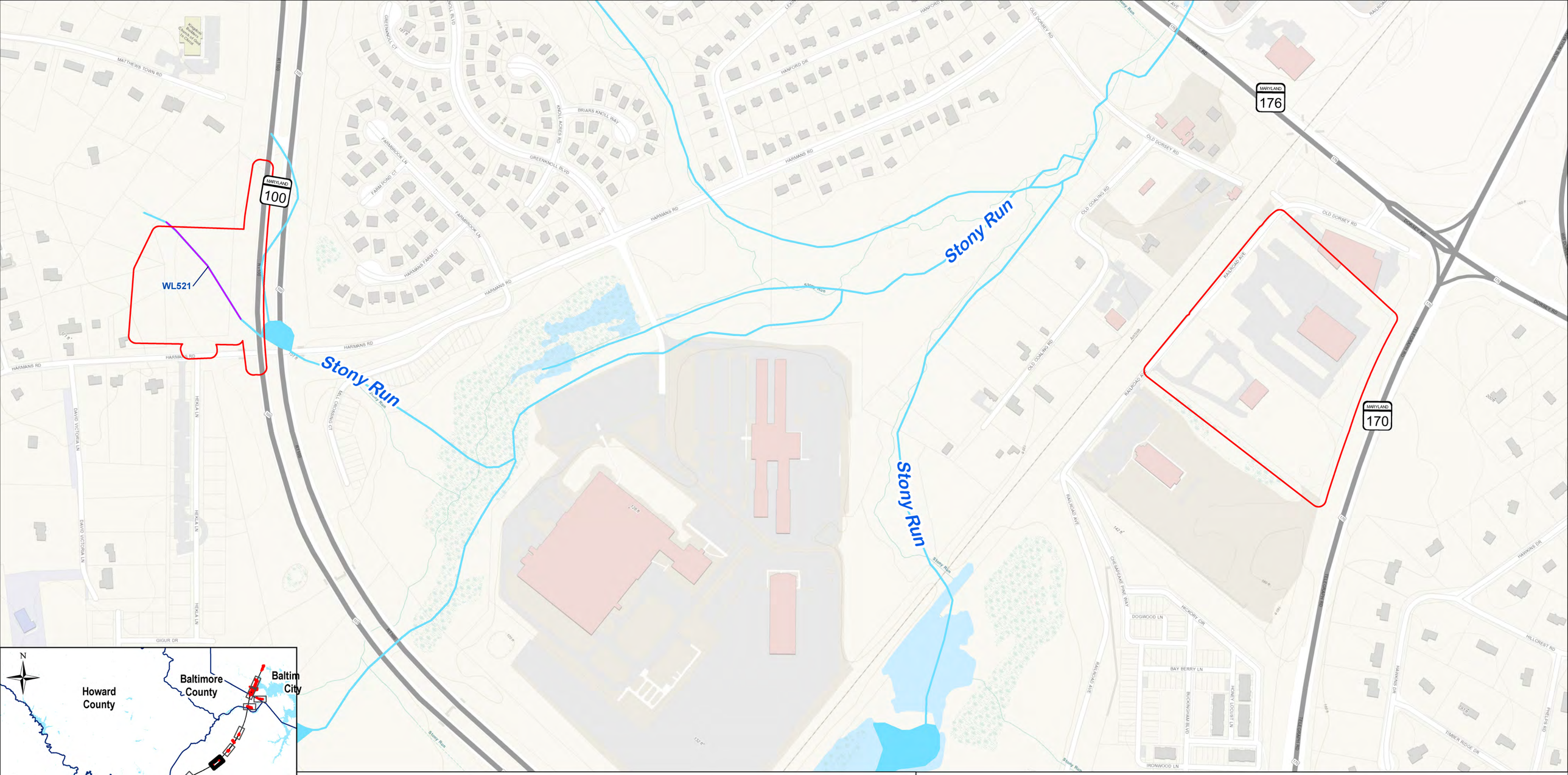

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Sheet 19 of 27

BALTIMORE-WASHINGTON SUPERCONDUCTING MAGLEV PROJECT

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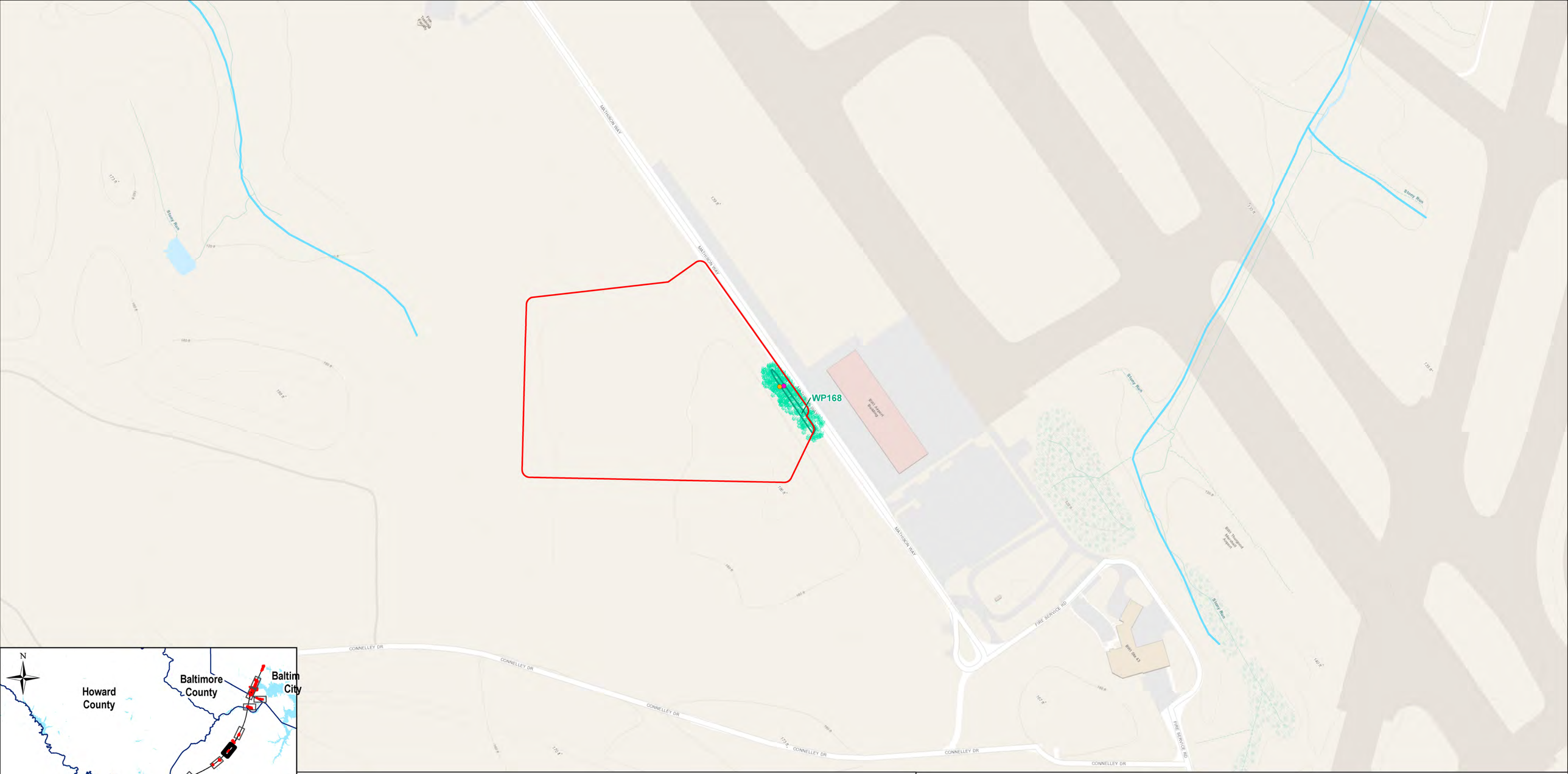

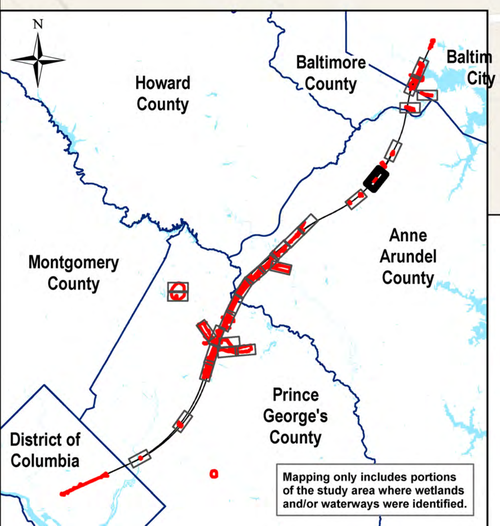

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Mapping only includes portions of the study area where wetlands and/or waterways were identified.

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October 2020

BALTIMORE-WASHINGTON SUPERCONDUCTING MAGLEV PROJECT

Sheet 21 of 27

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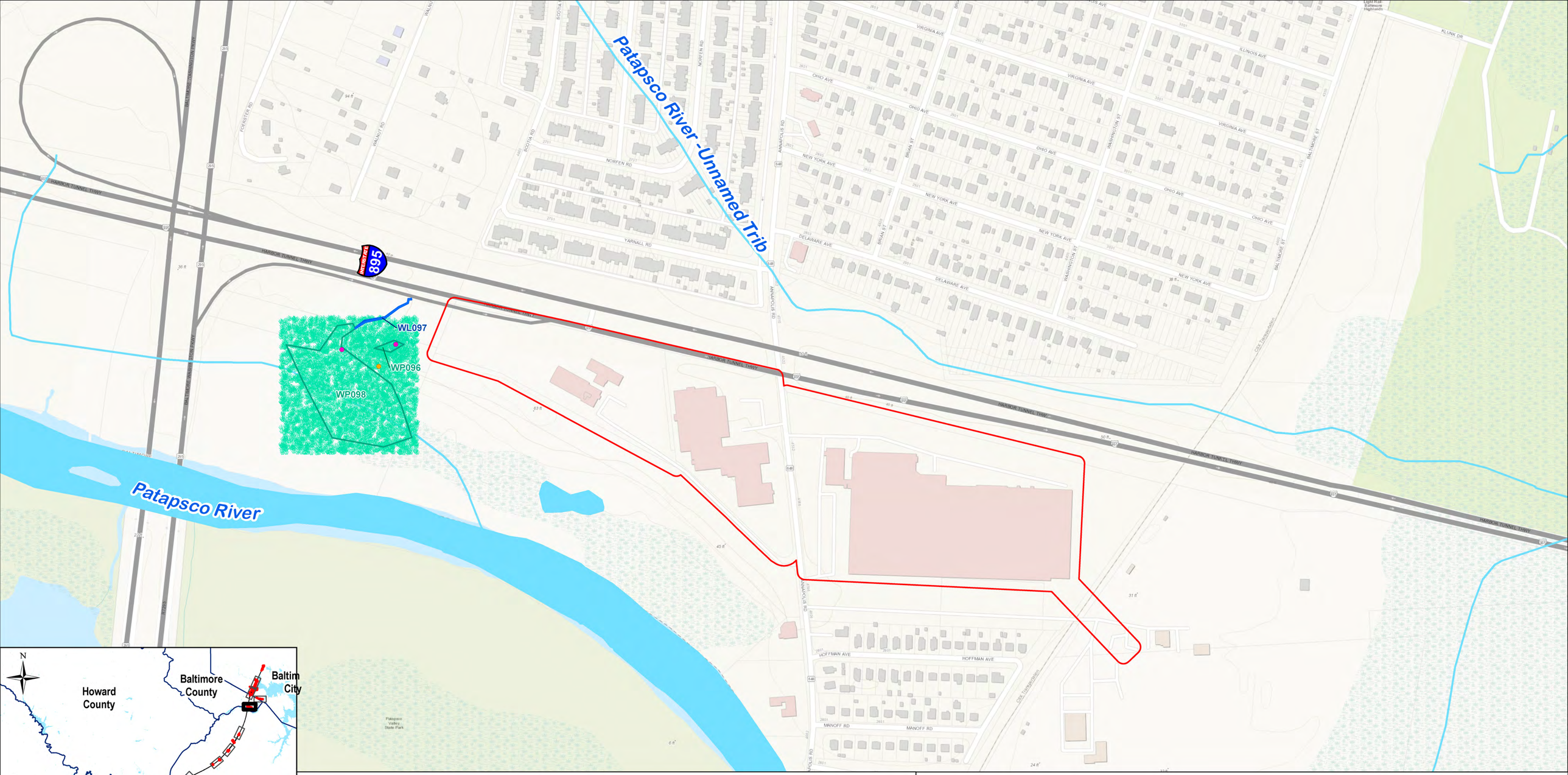

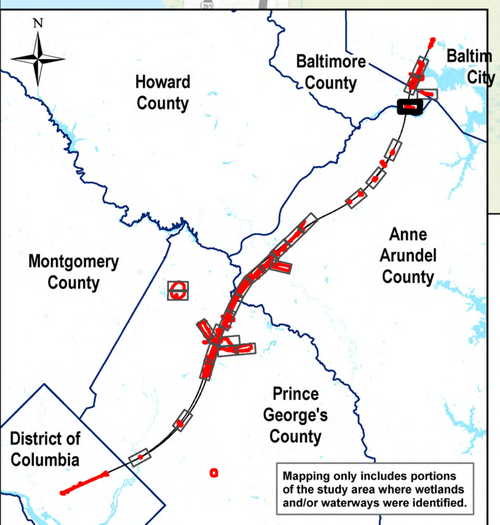

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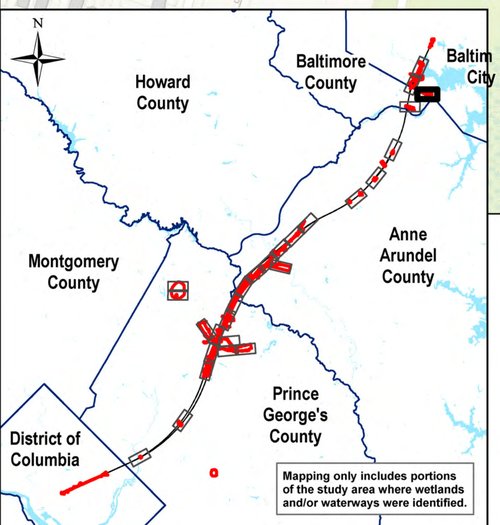

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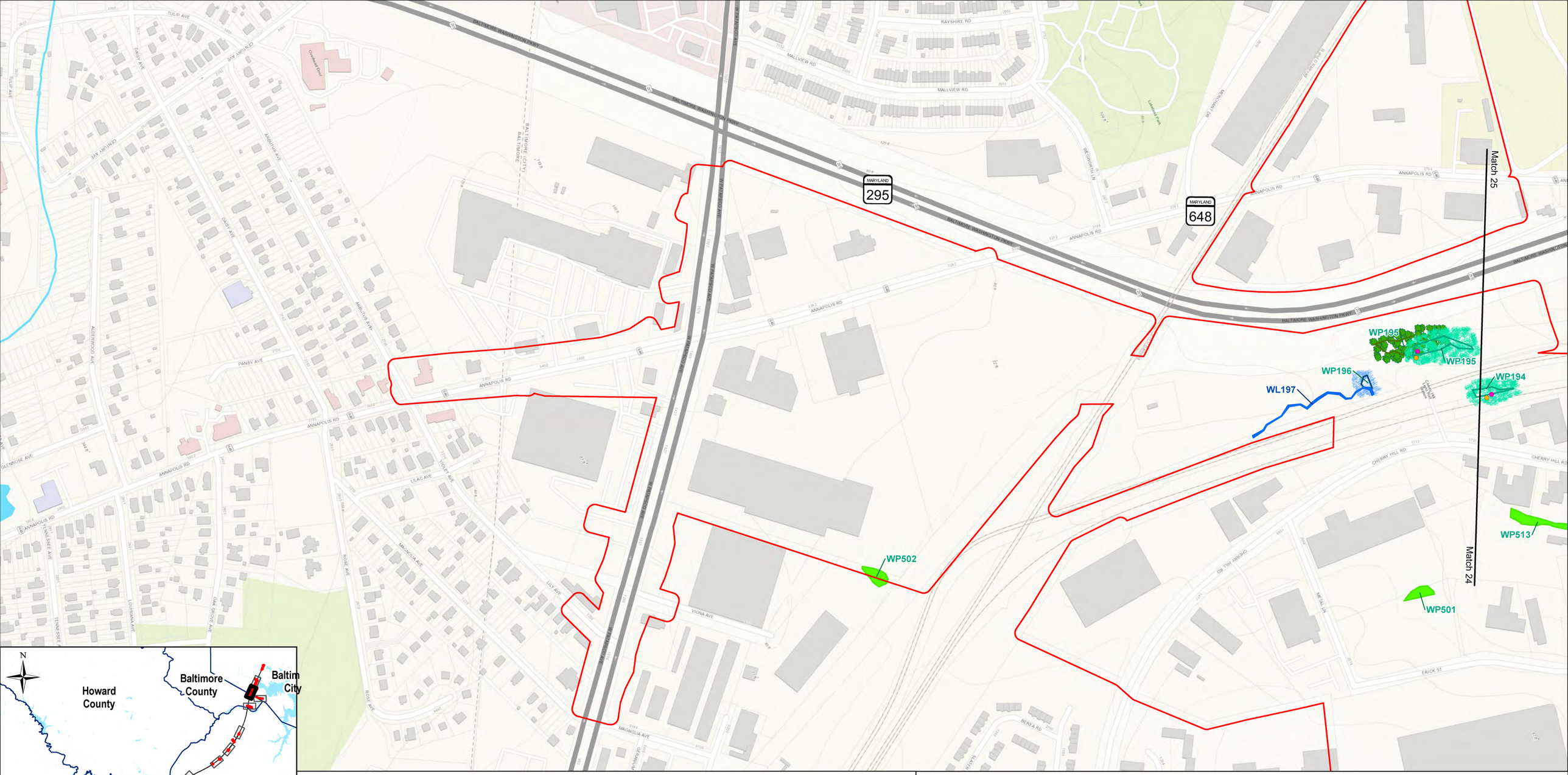

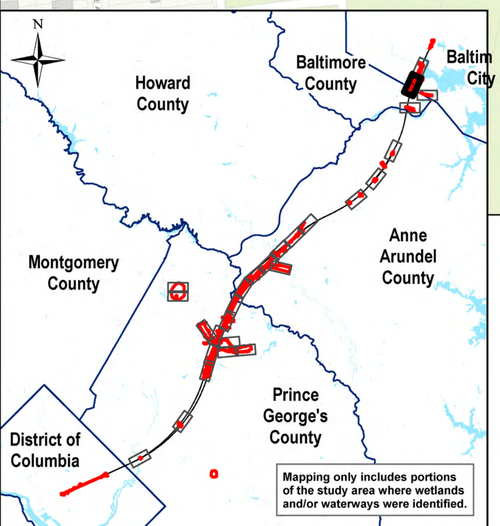

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PRELIMINARY DRAFT

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Gwynns Falls

Patapsco River

WL522

WP195

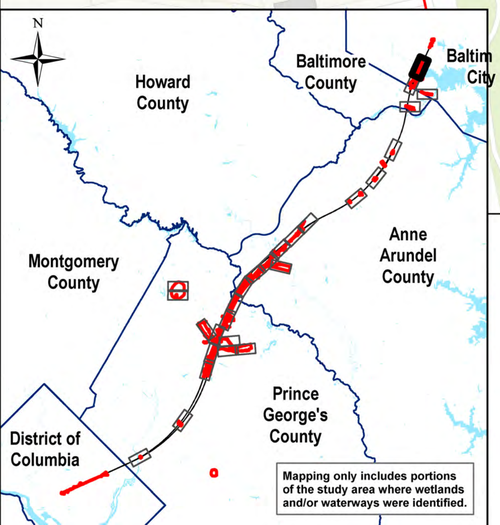
WP194

WP513

WP501

Match 25

Match 24



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Match 27

Match 26

WP541

WP542

WP543

WP544

WP545

WP546

WP547

WP548

WP549

WP550

WP551

WP552

WP553

WP554

WP555

WP556

WP557

WP560

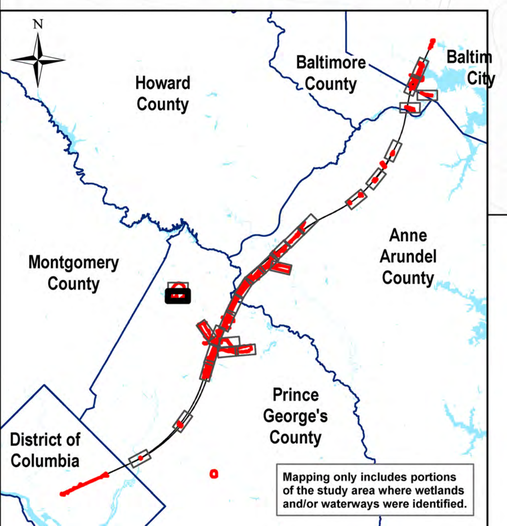
WP561

WL562

WL563

WL564

WL565



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WP537

WP538

WP539

WP540

WL564

WP541

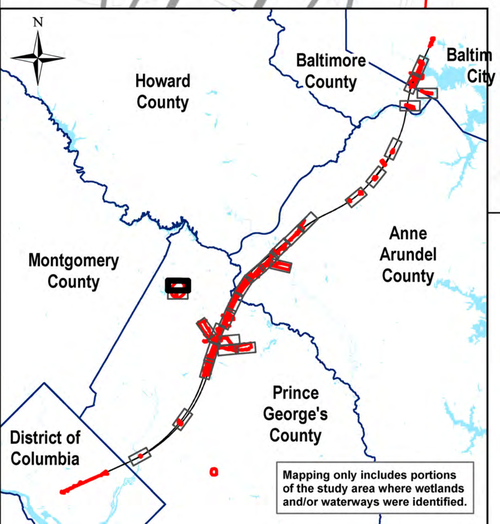
WL562

WL563

WL565

Match 27

Match 26



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STRAUGHAN ENVIRONMENTAL

E.2 – Wetland Summary Tables

Table E-1: Field-Delineated Waterway Summary

Table E-2: Field-Delineated Wetland Summary

Table E.1. Field-Delineated Waterway Summary

Map Sheet No.	Waterway ID[i]	Use Class[ii]	Cowardin Classification[iii]	Flow Type	Nexus to TNW	Common Substrate	Stream Characteristics	Average Bank Width (ft.)	Average Bank Height (ft.)
	WASHINGTON METROPOLITAN WATERSHED								
2	**WL193**	I	R2SB	Perennial	Flows to Unnamed Tributary (UT) to Brier Ditch, confluent to Northeast Branch (NEB) Anacostia River, a Traditional Navigable Water (TNW)	Cobble, Gravel, Sand, Silt, Rip Rap	Waterway flows from culvert northwest into WL186.	4	4
2	**WL186**	I	R5UBH	Perennial	Flows to Brier Ditch, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows east out of study area. Waterway has undercut banks and severe bank erosion.	10	5
2	**WL185**	I	R4SB	Intermittent	Flows to UT to Brier Ditch, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Rip Rap	Waterway flows northeast. Stream is culverted on southwest end and rip rap occurs throughout the length of the stream.	8	2
2	**WL189**	I	R4SB	Intermittent	Flows to UT to Brier Ditch, confluent to NEB Anacostia River (TNW)	Silt	Waterway flows west into WL186.	3	2
3	**WL324**	I	R5UBH	Perennial	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows west into a culvert under the Baltimore-Washington Parkway (BW Pkwy).	8	3
3	**WL327**	I	N/A	Ephemeral	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows north to WL324.	1	1
3	**WL323**	I	N/A	Ephemeral	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Silt, Muck	Waterway flows out of a culvert under BW Pkwy and flows northeast into WL324.	5	6
3	**WL328**	I	R4SB	Intermittent	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows south through WP326 and into WL324.	1	1
3	**WL134**	I	R4SB	Intermittent	Likely flows to UT of Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Silt	Waterway flows northwest out of study area.	5	1

Table E.1. Field-Delineated Waterway Summary									
Map Sheet No.	**Waterway ID[i]**	**Use Class[ii]**	**Cowardin Classification[iii]**	**Flow Type**	**Nexus to TNW**	**Common Substrate**	**Stream Characteristics**	**Average Bank Width (ft.)**	**Average Bank Height (ft.)**
3	**WL135**	I	R4SB	Intermittent	Likely flows to UT of Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Silt	Waterway flows west into WL134.	3.5	1.5
4	**WL136**	I	R4SB	Intermittent	Flows to Beck Branch via WP133, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand	Waterway flows northeast into WP133.	2	1.5
4	**WL129**	I	R5UBH	Perennial	Beck Branch is confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Silt	Waterway is Beck Branch and a continuation of WL118. Waterway flows northwest out of study area into a culvert under the BW Pkwy.	12	4
4	**WL118**	I	R5UBH	Perennial	Beck Branch is confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway is Beck Branch and a continuation of WL129. Waterway flows west out of study area.	9	4
4	**WL116**	I	R4SB	Intermittent	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Gravel, Silt, Muck	Waterway is roadside drainage, and flows west to WL114.	5	6
4	**WL114**	I	R5UBH	Perennial	Beaverdam Creek is confluent to NEB Anacostia River (TNW)	Sand, Silt, Muck	Waterway is Beaverdam Creek and a continuation of WL131. Waterway is abutted by WP115.	10	4.5
4	**WL131**	I	R5UBH	Perennial	Beaverdam Creek is confluent to NEB Anacostia River (TNW)	Sand	Waterway is Beaverdam Creek and a continuation of WL114. Waterway flows west out of the study area and is abutted by WL068.	11	3.5
4	**WL411**	I	N/A	Ephemeral	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows west through WP128 until going underground. Waterway likely receives flow from WL410 and contributes sheet flow to adjacent WL131 (Beaverdam Creek) via WP128.	3	1.5
4	**WL410**	I	N/A	Ephemeral	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt, Roots	Waterway flows north into WL131 (Beaverdam Creek). Waterway also contributes sheet flow to adjacent wetland WP128.	2	0.5
4	**WL132**	I	R4SB	Intermittent	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Silt	Waterway flows south into WL131.	1.5	2

Table E.1. Field-Delineated Waterway Summary									
Map Sheet No.	**Waterway ID[i]**	**Use Class[ii]**	**Cowardin Classification[iii]**	**Flow Type**	**Nexus to TNW**	**Common Substrate**	**Stream Characteristics**	**Average Bank Width (ft.)**	**Average Bank Height (ft.)**
4	**WL067**	I	R4SB	Intermittent	Coveys flow to Beaverdam Creek via WP068 and WL132, confluent to NEB Anacostia River (TNW)	Gravel, Sand, Silt	Waterway flows south from culvert under BW Pkwy into WP068.	6.5	1
4	**WL121**	I	R4SB	Intermittent	Likely flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Silt	Waterway flows east out of study area. Stream is culverted under the power lines.	4	8
4	**WL122**	I	R4SB	Intermittent	Likely flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows southeast into WP124. Stream is culverted under the power lines.	6	2.5
4	**WL123**	I	R4SB	Intermittent	Likely flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows southwest into WL122.	6	2
6	**WL211**	I	N/A	Ephemeral	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows south into WL214 (UT to Beaverdam Creek).	4	1
5, 6	**WL216**	I	N/A	Ephemeral	Flows to WP212E, which flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows southeast into the WP212 series of wetlands, which drain into WL304 (Beaverdam Creek).	2	1
6	**WL205**	I	N/A	Ephemeral	Nexus to TNW unknown	Cobble, Gravel	Waterway flows east from headcut to a riser structure in an unmaintained agriculture field.	5	4
5, 6	**WL215**	I	R4SB	Intermittent	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows north into WL214 (UT to Beaverdam Creek).	4	1.5
5, 6	**WL214**	I	R5UBH	Perennial	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway is UT to Beaverdam Creek. . Waterway flows west from a culvert to WL304 (Beaverdam Creek).	5	4
6	**WL236**	I	R4SB	Intermittent	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows southwest into WL214 (UT to Beaverdam Creek).	5	4

Table E.1. Field-Delineated Waterway Summary									
Map Sheet No.	**Waterway ID[i]**	**Use Class[ii]**	**Cowardin Classification[iii]**	**Flow Type**	**Nexus to TNW**	**Common Substrate**	**Stream Characteristics**	**Average Bank Width (ft.)**	**Average Bank Height (ft.)**
5, 6	**WL304**	I	R5UBH	Perennial	Beaverdam Creek is confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway is Beaverdam Creek. Waterway flows west out of a culvert under Springfield Road and exits the study area, eventually flowing into Indian Creek.	5	2.5
5	**WL303**	I	R4SB	Intermittent	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Flows southwest from a drained ponded area within WP300 and into WL304 (Beaverdam Creek).	5	1.5
5, 6	**WL213**	I	R4SB	Intermittent	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows southwest from a culvert and into WL214 (UT to Beaverdam Creek).	3	1.5
5	**WL302**	I	R4SB	Intermittent	Flows into a large wetland that abuts Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows south out of a PVC pipe from an agricultural field and into WP300.	3	1.5
5	**WL301**	I	R4SB	Intermittent	Flows into a large wetland that abuts Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows south out of a terracotta pipe from an agricultural field and into WP300.	3	1.5
5	**WL408**	I	R5UBH	Perennial	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows south into WL131 (Beaverdam Creek) and is problematically incised.	20	3.5
5	**WL307**	I	R5UBH	Perennial	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway drains WP306 and flows south out of the study area.	6	2
4, 8	**WL072**	I	R4SBC	Intermittent	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Gravel, Sand, Silt	Waterway is UT to Beaverdam Creek and a continuation of WL127. Waterway flows out of the study area to a culvert under BW Pkwy.	6	4.5
4, 8	**WL127**	I	R4SBC	Intermittent	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand	Waterway is UT to Beaverdam Creek and a continuation of WL072. Waterway lows east out of study area to a culvert under BW Pkwy.	4	2
8	**WL073**	I	R4SBC	Intermittent	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Gravel, Concrete, Sand	Waterway is UT to Beaverdam Creek. Flows out of the study area.	8	4

Table E.1. Field-Delineated Waterway Summary									
Map Sheet No.	**Waterway ID[i]**	**Use Class[ii]**	**Cowardin Classification[iii]**	**Flow Type**	**Nexus to TNW**	**Common Substrate**	**Stream Characteristics**	**Average Bank Width (ft.)**	**Average Bank Height (ft.)**
7	**WL310**	I	R4SB	Intermittent	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows southwest from a culvert under Springfield Road and through WP309 before exiting the study area, where it drains into an UT to Beaverdam Creek.	3	0.5
7, 8	**WL319**	I	R5UBH	Perennial	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway is UT to Beaverdam Creek. Waterway flows south out of the study area to Beaverdam Creek.	20	5
7, 8	**WL320**	I	R4SB	Intermittent	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows northeast into WL319 (UT to Beaverdam Creek) and has severe bank erosion causing the stream to be problematically incised.	10	15
8	**WL400**	I	N/A	Ephemeral	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Silt	Waterway flows east from culvert under BW Pkwy and into WL077. Waterway has severe bank erosion.	5	5
8	**WL076**	I	N/A	Ephemeral	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows from WP075 into WP077.	6	1
8	**WL321**	I	N/A	Ephemeral	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows southeast out of a culvert and into WL078.	3	2
9	**WL228**	I	R4SB	Intermittent	Likely flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows southwest out of the study area.	3	3
8	**WL078**	I	R4SB	Intermittent	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Silt, Muck	Waterway flows northeast into WL077 and is abutted by WP079. Orange flocculant in water.	3	1
8	**WL404**	I	N/A	Ephemeral	Ultimately flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows south into WP403 which abuts WL401.	3	1
8	**WL401**	I	R4SB	Intermittent	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Silt	Waterway flows south from WP402 into WL077B.	6.5	1

Table E.1. Field-Delineated Waterway Summary

Map Sheet No.	Waterway ID[i]	Use Class[ii]	Cowardin Classification[iii]	Flow Type	Nexus to TNW	Common Substrate	Stream Characteristics	Average Bank Width (ft.)	Average Bank Height (ft.)
7, 8	**WL077, WL077B**	I	R2UBH	Perennial	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway is UT to Beaverdam Creek. Waterway flows southwest out of the study area.	11	2.5
8	**WL405**	I	N/A	Ephemeral	Ultimately flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows north into WP406. Culverted at upstream end.	1.5	1
8, 10	**WL080, WL080B**	I	R5UBH	Perennial	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Gravel, Sand, Silt	Waterway is UT to Beaverdam Creek. Waterway flows out of study area to culvert under BW Pkwy. Waterway is incised.	11	6
9	**WL224**	I	R4SB	Intermittent	Flows into WP221, which drains to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows east from a culvert and dissipates as overland flow within WP221.	2	1
9	**WL222**	I	R4SB	Intermittent	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows southeast from a culvert into WL223.	1	6
9	**WL223**	I	R4SB	Intermittent	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows northeast out of study area to UT to Beaverdam Creek.	2	1
8	**WL081**	I	N/A	Ephemeral	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Gravel, Silt	Waterway flows to WL080.	3	2.5
9	**WL232**	I	R4SB	Intermittent	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Bedrock, Cobble, Gravel, Silt, Clay	Waterway flows northeast into WL233 (UT to Beaverdam Creek).	2	2
9	**WL235**	I	R4SB	Intermittent	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Sil	Waterway flows southeast from a culvert and into WL233 (UT to Beaverdam Creek).	1	1
9	**WL230**	I	R4SB	Ephemeral	Flows to WP231B, which drains to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows north into WP231B.	3	1

Table E.1. Field-Delineated Waterway Summary									
Map Sheet No.	**Waterway ID[i]**	**Use Class[ii]**	**Cowardin Classification[iii]**	**Flow Type**	**Nexus to TNW**	**Common Substrate**	**Stream Characteristics**	**Average Bank Width (ft.)**	**Average Bank Height (ft.)**
9	**WL233**	I	R5UBH	Perennial	Flows to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows east to Beaverdam Creek and receives flow from WL232.	15	7
10	**WL082**	I	R4SB	Intermittent	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Gravel, Sand, Silt	Waterway flows west, out of study area to culvert under BW Pkwy.	7	2
10	**WL083**	I	R4SB	Intermittent	Flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Gravel, Sand, Silt	Waterway flows to WL082.	6	3
10	**WL090**	I	R4SB	Intermittent	Likely flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows from WP084 into a culvert under BW Pkwy.	4	1
10	**WL091**	I	R4SB	Intermittent	Likely flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Cobble, Gravel, Sand, Silt	Waterway originates outside of study area from a flooded culvert at BW Pkwy. Waterway flows southwest to WL083 via overland flow. Waterway loses bed and bank due to severe erosion.	4	2
10	**WL089**	I	R4SB	Intermittent	Likely flows to UT to Beaverdam Creek, confluent to NEB Anacostia River (TNW)	Sand, Silt	Waterway flows from a culvert and drains to WP084.	2	1
	PATUXENT RIVER WATERSHED								
10	**WL057**	I	R4SB	Intermittent	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Gravel, Sand	Waterway flows northeast into WP056. Culverted.	6	6
10	**WL058**	I	R4SB	Intermittent	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Sand	Waterway flows southeast from WP056 and into a roadside drainage. Portion of the waterway is underground.	1.5	1
10, 11	**WL059**	I	N/A	Ephemeral	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Silt	Waterway flows south. Wide forested riparian zone. Waterway was dry at the time of delineation.	4	6

Table E.1. Field-Delineated Waterway Summary									
Map Sheet No.	**Waterway ID[i]**	**Use Class[ii]**	**Cowardin Classification[iii]**	**Flow Type**	**Nexus to TNW**	**Common Substrate**	**Stream Characteristics**	**Average Bank Width (ft.)**	**Average Bank Height (ft.)**
10,11	**WL060**	I	N/A	Ephemeral	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Gravel, Sand, Silt	Waterway flows north into WL061. Culverted.	4	3
11	**WL061**	I	R2SB	Perennial	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Sand	Waterway flows north. Culverted.	6	4
11	**WL062**	I	R4SB	Intermittent	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows northeast and is abutted by WP063. Culverted under the on-ramp.	4.5	1
11	**WL154**	I	N/A	Ephemeral	Flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows northeast into WP108. Reclassified as ephemeral per agency review in the field.	4	1
11	**WL065**	I	N/A	Ephemeral	Flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Sand, Silt, Muck	Waterway flows east into WL064. Waterway is abutted by WP066.	3	1
11	**WL064**	I	R2UBHx	Perennial	Flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel	Waterway is UT to Patuxent River and a continuation of WL109. Waterway flows northeast and is abutted by WP066.	7.5	4
11	**WL085**	I	N/A	Ephemeral	Flows into Patuxent River (TNW)	Silt	Waterway is UT to Patuxent River. Waterway flows into WL109 and is within a Nontidal Wetland of Special State Concern (WP108A). Reclassified as ephemeral per agency review in the field, pending determination USACE.	3	1
11	**WL109**	I	R5UBH	Perennial	Flows into Patuxent River (TNW)	Cobble, Gravel, Silt	Waterway is UT to Patuxent River and a continuation of WL064. Waterway is within a Nontidal Wetland of Special State Concern (WP108A).	11.5	1
11	**WL110**	I	R5UBH	Intermittent	Flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Silt	Waterway flows northwest to WL109 and is within a Nontidal Wetland of Special State Concern (WP108A).	13	1
11	**WL019**	I	R2UBH	Perennial	Patuxent River is a TNW	Cobble, Gravel, Sand, Silt	Waterway is the Patuxent River. Waterway is a continuation of WL113/WL113B and is abutted by a Nontidal Wetland of Special State Concern (WP108A).	40	3

Table E.1. Field-Delineated Waterway Summary

Map Sheet No.	Waterway ID[i]	Use Class[ii]	Cowardin Classification[iii]	Flow Type	Nexus to TNW	Common Substrate	Stream Characteristics	Average Bank Width (ft.)	Average Bank Height (ft.)
11	**WL113, WL113B**	I	R2UBH	Perennial	Patuxent River is a TNW	Sand, Silt	Waterway is the Patuxent River. Waterway is a continuation of WL019 and is abutted by WP066.	40	3
11	**WL071**	I	R2SB	Perennial	Flows into Patuxent River (TNW)	Sand, Silt	Waterway flows south-southeast to Patuxent River.	30	4
11	**WL606**	I	N/A	Ephemeral	Flows to wetland that drains to UT to Patuxent River, confluent to Patuxent River (TNW)	Wetland delineated during July 2019 Agency Site Visits, per direction from MDE. Datasheet not prepared. MDE delineated an ephemeral channel connection WP111 and WP112.			
11	**WL021**	I	N/A	Ephemeral	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Sand, Silt	Waterway flows southeast.	4	2.5
12	**WL105**	I	R4SBC	Intermittent	Flows into Patuxent River (TNW)	Cobble, Gravel, Sand	Waterway is UT to Patuxent River. Stream is severely incised.	15	7
12	**WL069**	I	R4SB	Intermittent	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Sand, Silt	Waterway flows west towards Suburban Airport. Culverted under pedestrian trail and Brock Bridge Road.	4.5	0.5
12	**WL100**	I	N/A	Ephemeral	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Gravel, Muck	Waterway flows west to BW Pkwy toe of slope. Waterway may not be visible during dry summer conditions.	4.5	0.5
12	**WL101/ WL101A**	I	N/A	Ephemeral	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Gravel, Silt	Waterway is UT to Patuxent River. Waterway originates at culvert under BW Pkwy and flows east. Waterway dissipates into wet/braided flat area outside of the study area.	5	1
12	**WL086**	I	N/A	Ephemeral	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Silt	Waterway is an isolated stream with no downstream connection. Waterway was dry at time of observation.	7	.2
12, 13	**WL018 A/B/C**	I	R4SB	Intermittent	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Gravel, Silt	Waterway flows east out of the study area.	4	1

Table E.1. Field-Delineated Waterway Summary									
Map Sheet No.	**Waterway ID[i]**	**Use Class[ii]**	**Cowardin Classification[iii]**	**Flow Type**	**Nexus to TNW**	**Common Substrate**	**Stream Characteristics**	**Average Bank Width (ft.)**	**Average Bank Height (ft.)**
13	**WL017**	I	PFO1A	Perennial	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Boulders, Cobble, Gravel	Waterway flows west to culvert under BW Pkwy.	10	3
13	**WL159**	I	R4SB	Intermittent	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Sand, Silt	Waterway flows northwest into WL017.	3	1
13	**WL016**	I	R4SB	Intermittent	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Boulders, Cobble, Gravel	Waterway flows south into WL017. The channel is rip rap.	10	2
13	**WL087**	I	R4SBC	Perennial	Flows into Patuxent River (TNW)	Sand, Silt	Waterway is UT to Patuxent River. Waterway flows northwest out of the study area.	9	1
13	**WL088**	I	R4SBC	Perennial	Flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows west into WL087.	6	2
12, 13	**WL237**	I	R5UBH	Intermittent	Flows to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Sand, Silt	Waterway is UT of Patuxent River. Waterway flows west out of study area.	9	2
13	**WL238**	I	R5UBH	Intermittent	Flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows into WL237.	4	2
13	**WL053**	I	R4SBC	Intermittent	Flows to Patuxent River (TNW)	Gravel, Sand, Silt, Muck	Waterway is UT to Patuxent River. Waterway flows south to a culvert under BW Pkwy.	6	1.5
13	**WL014**	I	N/A	Ephemeral	Likely flows to UT to Little Patuxent River, ultimately confluent to Patuxent River (TNW)	Sand, Silt	Waterway flows north from WP015 into WP012.	4	0.5
13	**WL013**	I	N/A	Ephemeral	Likely flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Silt	Waterway flows west into WP012.	2	0.5

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Map Sheet No.	**Waterway ID[i]**	**Use Class[ii]**	**Cowardin Classification[iii]**	**Flow Type**	**Nexus to TNW**	**Common Substrate**	**Stream Characteristics**	**Average Bank Width (ft.)**	**Average Bank Height (ft.)**
13	**WL051**	I	R4SB	Intermittent	Flows to UT Patuxent River, confluent to Patuxent River (TNW)	Gravel, Silt, Muck	Waterway flows southwest into WL053.	2.5	0.5
13	**WL052**	I	R4SBC	Intermittent	Flows into Patuxent River	Gravel, Silt, Muck	Waterway is UT to Patuxent River. Flows east into WL051.	3	0.5
13	**WL165**	I	R4SB	Intermittent	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel	Waterway flows north into WL164. Drains WP166.	2.5	1.5
13	**WL011**	I	R4SB	Intermittent	Likely flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Gravel, Silt	Waterway flows north into WL010 just before culvert.	7	0.4
13	**WL163**	I	R4SB	Intermittent	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows south into WL164. Rip rap has been placed at downstream end.	3	1
13	**WL164**	I	R4SB	Intermittent	Likely flows to UT to Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel	Waterway flows west into culvert under BW Pkwy.	4	1
13	**WL010**	I	R4SB	Intermittent	Likely flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Gravel, Silt	Waterway flows southwest.	3.5	1
13	**WL048**	I	R2SB	Perennial	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Gravel, Sand, Silt, Muck	Waterway flows northeast into WL047. Channel is incised, and banks are severely eroded.	7	5
13	**WL007**	I	N/A	Ephemeral	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Gravel, Sand, Silt	Waterway flows south from culvert under BW Pkwy and is abutted by WP004.	3	1
13	**WL006**	I	R2SB	Perennial	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel	Culverted under an old access road. Waterway flows east into WL005. Eroded bank.	11	3

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Map Sheet No.	**Waterway ID[i]**	**Use Class[ii]**	**Cowardin Classification[iii]**	**Flow Type**	**Nexus to TNW**	**Common Substrate**	**Stream Characteristics**	**Average Bank Width (ft.)**	**Average Bank Height (ft.)**
13	**WL005**	I	R4SB	Intermittent	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel	Waterway flows southwest out of the study area.	11	3.5
13	**WL049**	I	R4SB	Intermittent	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Gravel	Waterway flows northeast into WL048.	3	1
13	**WL047**	I	R2SB	Perennial	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Sand	Waterway is UT to Little Patuxent River. Waterway flows southeast to culvert under BW Pkwy.	10	2
13	**WL045**	I	R4SB	Intermittent	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Gravel	Waterway flows southwest into WL047.	4	1
13	**WL046**	I	R4SB	Intermittent	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Sand, Silt, Muck	Waterway flows southeast into WL045.	3	1
13, 14	**WL003**	I	N/A	Ephemeral	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Silt	Waterway conveys flow east from culvert under powerline access road. Flow comes from WP001 and uplands.	3	1
13, 14	**WL037**	I	R4SB	Intermittent	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Concrete	Waterway flows south to WL036. Waterway is a concrete drainage channel.	5	3
13, 14	**WL036, WL036A**	I	R4SB	Intermittent	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Concrete	Waterway is UT to Little Patuxent River. Waterway is a concrete drainage channel.	5	.5
13, 14	**WL039**	I	N/A	Ephemeral	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel	Waterway flows into culvert under the road.	1.5	0.8
14	**WL172**	I	R4SB	Intermittent	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Silt	Waterway flows southeast into WL042 and abuts WP171 and WP173.	2.5	1

Table E.1. Field-Delineated Waterway Summary

Map Sheet No.	Waterway ID[i]	Use Class[ii]	Cowardin Classification[iii]	Flow Type	Nexus to TNW	Common Substrate	Stream Characteristics	Average Bank Width (ft.)	Average Bank Height (ft.)
15	**WL178**	I	R4SB	Intermittent	Likely flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Sand, Silt	Waterway flows east into WP177. Waterway has no obvious connection to downstream waters.	2.5	1
15	**WL175**	I	R4SB	Intermittent	Likely flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Silt	Waterway flows southeast into WP170.	4	3
14	**WL040**	I	R4SB	Intermittent	Likely flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Sand	Waterway flows northeast to a culvert under the road.	4.5	1
14	**WL041**	I	R4SB	Intermittent	Likely flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Sand, Silt	Waterway flows northwest into WL040 just before the culvert.	4	2.5
14	**WL044**	I	N/A	Ephemeral	Flows into WP043 which drains into UT to Little Patuxent River	Gravel	Waterway flows northwest into WP043. Waterway is an incised channel.	2	1
14	**WL042**	I-P	R5UBH	Perennial	Flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Sand, Silt	Waterway is UT to Little Patuxent River. Waterway exits study area and passes under BW Pkwy through a culvert. Waterway re-enters study area around 700 ft downstream then flows out of study area into culvert.	5.5	2
14	**WL029**	I	N/A	Ephemeral	Ultimately flows to Little Patuxent River (TNW)	Sand	Waterway is an UT to the Little Patuxent River and is adjacent to WP030.	2	0.5
14, 15	**WL181**	I	R4SB	Intermittent	Ultimately flows to Little Patuxent River (TNW)	Sand, Silt	Waterway is UT to Little Patuxent River. Flows east from WP183, into WP182; waterway reforms at east end of WP182.	5	1
14, 16	**WL155**	I	R4SB	Intermittent	Ultimately flows to Little Patuxent River (TNW)	Cobble, Gravel Sand, Silt	Waterway flows north and becomes sheet flow before discharging into WL032. Cobblestone stabilization near the downstream end; majority of flow is beneath cobble stones.	1.5	2
14, 16	**WL032**	I	N/A	Ephemeral	Ultimately flows to Little Patuxent River (TNW)	Gravel, Sand, Silt	Waterway flows east to WP031 where it ends. WP031 drains to WL157 (Little Patuxent River).	4.5	0.25

Table E.1. Field-Delineated Waterway Summary

Map Sheet No.	Waterway ID[i]	Use Class[ii]	Cowardin Classification[iii]	Flow Type	Nexus to TNW	Common Substrate	Stream Characteristics	Average Bank Width (ft.)	Average Bank Height (ft.)
16	**WL157**	I-P	R2UBH	Perennial	Little Patuxent River is a TNW	Cobble, Gravel, Sand	Waterway is the Little Patuxent River which flows east into the Patuxent River. Waterway receives flow from WP031.	60	12
16	**WL099**	I	R4SB	Perennial	Ultimately flows to Little Patuxent River (TNW)	Cobble, Gravel Sand, Silt	Waterway is UT to the Little Patuxent River. Waterway appears to be excavated.	20	6
16	**WL201**	I	R4SB	Intermittent	Ultimately flows to Little Patuxent River (TNW)	Sand, Silt	Waterway is an inline pond. Waterway flows into a culvert under BW Pkwy into Dorsey Run.	750	3
16	**WL035**	I	N/A	Ephemeral	Likely flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel	Waterway was dry at the time of delineation. Waterway is adjacent to WP203.	3.5	1
17	**WL027**	I	N/A	Intermittent	Likely flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Cobble, Gravel, Sand	Waterway flows northwest to a culvert under BW Pkwy.	15	3
17	**WL139**	I	R4SB	Intermittent	Likely flows to UT to Little Patuxent River, confluent to Patuxent River (TNW)	Sand, Silt, Leaf litter	Waterway is UT to the Little Patuxent River. Waterway flows northwest into culvert and continues as WL027. Waterway drains WP140.	1	.5
17	**WL028**	I-P	R4SB	Intermittent	Flows to UT to Dorsey Run, ultimately confluent to Little Patuxent River (TNW)	Cobble, Gravel, Sand	Waterway flows northeast to WL146.	3	0.7
17	**WL152**	I	N/A	Ephemeral	Flows to UT to Dorsey Run, ultimately confluent to Little Patuxent River (TNW)	Sand, Silt	Waterway flows north into WP147.	1	.3
17	**WL033**	I-P	N/A	Ephemeral	Flows to UT to Dorsey Run, ultimately confluent to Little Patuxent River (TNW)	Cobble, Gravel, Sand, Silt	Waterway flows southwest to UT to Dorsey Run.	4	1
17	**WL146**	I-P	R4SB	Intermittent	Flows to Dorsey Run, confluent to Little Patuxent River (TNW)	Cobble, Gravel, Sand	Waterway is UT to Dorsey Run. Waterway flows north into a culvert on NPS property and is adjacent to WP147. Reclassified as intermittent per agency review in the field.	6	3

Table E.1. Field-Delineated Waterway Summary									
Map Sheet No.	**Waterway ID[i]**	**Use Class[ii]**	**Cowardin Classification[iii]**	**Flow Type**	**Nexus to TNW**	**Common Substrate**	**Stream Characteristics**	**Average Bank Width (ft.)**	**Average Bank Height (ft.)**
17	**11-26**	I	R4SB	Intermittent	Waterway was delineated by Ft. George G. Meade staff in 2014, and boundaries were verified by Straughan in 2020. Sample plot data not available.				
17	**WL142A/ WL142B**	I-P	R4SB; R5UBH	Intermittent; Perennial	Flows to Dorsey Run, confluent to Little Patuxent River (TNW)	Sand, Silt, Muck, Leaf litter	Waterway is UT to Dorsey Run. Waterway flows northwest through WP143 out of study area. Split into intermittent and perennial per agency review in the field.	4	.5
18	**WL150**	I-P	R4SBC	Perennial	Flows into Dorsey Run, confluent to Little Patuxent River (TNW)	Cobble, Gravel, Sand, Silt	Waterway is UT to Dorsey Run. Waterway receives flow from WL600, flows northwest into Dorsey Run, and abuts WP149.	7	4
18	**WL600**	I	R4SB; N/A	Intermittent; Ephemeral	Flows to UT to Dorsey Run, confluent to Little Patuxent River (TNW)	Wetland delineated during July 2019 Agency Site Visits, per direction from MDE. Datasheet not prepared. USACE determined the drainage through wetland WP149 to be an ephemeral/intermittent waterway. Waterway flows north through WP149 into WL150.			
18	**WL240**	I	R5UBH	Perennial	Flows to Dorsey Run, confluent to Little Patuxent River (TNW)	Cobble, Gravel, Sand	Waterway flows north out of study area.	5	3
	PATAPSCO RIVER WATERSHED								
21	**WL200**	I	R4SB	Intermittent	Flows to Cabin Branch, confluent to Patapsco River (TNW)	Boulders, Cobble, Gravel, Silt	Ephemeral at culvert to downstream end of rip rap. Waterway is intermittent from rip rap to downstream exit of study area.	4	1.25
22	**WL097**	I	R4SB	Intermittent	Flows to the Patapsco River (TNW)	Bedrock, Cobble, Gravel, Sand	Waterway flows southwest to WP098. Waterway is culverted from the BW Pkwy/I-895 on ramp to DNR property. No longer flows through concrete culvert due to erosion.	30	15
23	**WL094**	I	R2SB	Perennial	Flows to the Patapsco River (TNW)	Cobble, Gravel, Sand, Silt	Waterway is UT to Patapsco River. Waterway receives flow from culvert and is adjacent to WP095. Waterway is severely eroded. Reclassified as perennial per agency review in the field.	15	3
24	**WL197**	I	R2SB	Perennial	Likely flows to the Patapsco River (TNW)	Cobble, Gravel	Waterway flows north into culvert under railroad. Waterway has severe bank erosion and is problematically incised.	4	3

[i] These tables include systems that were field-delineated by Straughan and all 600-systems that were added by as directed during agencies site visits. This table excludes all 500-systems, which were desktop-delineated.
[ii] Closure Period for Use Class I and I-P is 3/1-6/15
[iii] Based on Cowardin, et al. 1979 and FGDC (2013).

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
	WASHINGTON METROPOLITAN WATERSHED							
2	**WP192**	Palustrine Emergent (PEM)	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Geomorphic Position (D2)	Black Willow Sweet-Gum Red Maple Dark-Green Bulrush Pinkweed	*Salix nigra* *Liquidambar styraciflua* *Acer rubrum* *Scirpus atrovirens* *Persicaria pensylvanica*	OBL FAC FAC OBL FACW	Dominance Test	Depleted Matrix (F3)
2	**WP190**	Palustrine Scrub Shrub (PSS)	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Geomorphic Position (D2)	Red Maple Sweet-Gum Horsebrier Skunk-Cabbage	*Acer rubrum* *Liquidambar styraciflua* *Smilax rotundifolia* *Symplocarpus foetidus*	FAC FAC FAC OBL	Dominance Test	Depleted Matrix (F3)
2	**WP188**	PSS	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Geomorphic Position (D2)	Sweet-Gum Red Maple Horsebrier Late Lowbush Blueberry	*Liquidambar styraciflua* *Acer rubrum* *Smilax rotundifolia* *Vaccinium angustifolium*	FAC FAC FAC FACU	Dominance Test	Depleted Matrix (F3)
2	**WP191**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Geomorphic Position (D2)	Sweet-Bay Magnolia Skunk-Cabbage Horsebrier	*Magnolia virginiana* *Symplocarpus foetidus* *Smilax rotundifolia*	FACW OBL FAC	Dominance Test	Depleted Matrix (F3)
2	**WP187**	Palustrine Forested (PFO)	Surface Water (A1) High Water Table (A2) Saturation (A3) Drainage Patterns (B10) Geomorphic Position (D2)	Red Maple Sweet-Gum Mountain-Laurel Northern Spicebush American Holly Skunk-Cabbage Horsebrier	*Acer rubrum* *Liquidambar styraciflua* *Kalmia latifolia* *Lindera benzoin* *Ilex opaca* *Symplocarpus foetidus* *Smilax rotundifolia*	FAC FAC FACU FACW FAC OBL FAC	Dominance Test	Depleted Dark Surface (F7)
3	**WP325A, WP325B, WP325C**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Crayfish Burrows (C8)	Red Maple Sweet-Gum Japanese Stiltgrass Sweet Woodreed	*Acer rubrum* *Liquidambar styraciflua* *Microstegium vimineum* *Cinna arundinacea*	FAC FAC FAC FACW	Dominance Test	Depleted Matrix (F3)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
3	**WP326A, WP326B**	PFO	Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Sweet-Gum Japanese Stiltgrass Red Maple Skunk-Cabbage	*Liquidambar styraciflua* *Microstegium vimineum* *Acer rubrum* *Symplocarpus foetidus*	FAC FAC FAC OBL	Dominance Test	Depleted Matrix (F3)
4	**WP133**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Geomorphic Position (D2)	Red Maple River Birch Pinkweed Canadian Clearweed Spotted Touch-Me-Not	*Acer rubrum* *Betula nigra* *Persicaria pensylvanica* *Pilea pumila* *Impatiens capensis*	FAC FACW FACW FACW FACW	Dominance Test	Depleted Matrix (F3)
4	**WP602**	PEM	Wetland delineated during July 2019 Agency Site Visits, per direction from MDE. Datasheet not prepared. This 5-ft-wide swale exhibits wetland conditions and is located in the vegetated edge between two fallow fields. Dense vegetation at the west end of this swale made observations very difficult, but it appeared to diffuse into a flatter area with more upland vegetation.					
4	**WP120**	PEM	Surface Water (A1) High Water Table (A2) Drainage Patterns (B10) Geomorphic Position (D2)	Deer-Tongue Rosette Grass	*Dichanthelium clandestinum*	FACW	Dominance Test	Depleted Matrix (F3)
4	**WP119**	PEM	Surface Water (A1)	Reed Canary Grass	*Phalaris arundinacea*	OBL	Dominance Test	Depleted Matrix (F3)
4	**WP128**	PFO1C	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Geomorphic Position (D2)	Red Maple Coastal Sweet-Pepperbush Cinnamon Fern	*Acer rubrum* *Clethra alnifolia* *Osmundastrum cinnamomeum*	FAC FACW FACW	Dominance Test	Depleted Matrix (F3)
4	**WP117**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3)	Red Maple Sweet-Gum Reed Canary Grass	*Acer rubrum* *Liquidambar styraciflua* *Phalaris arundinacea*	FAC FAC OBL	Dominance Test	Depleted Matrix (F3)
4	**WP115**	PEM/PFO	High Water Table (A2) Saturation (A3) Sediment Deposits (B2) Surface Soil Cracks (B6) Drainage Patterns (B10) Crayfish Burrows (C8) Geomorphic Position (D2)	Small-Spike False Nettle Arrow-Leaf Tearthumb	*Boehmeria cylindrica* *Persicaria sagittata*	FACW OBL	Dominance Test	Depleted Matrix (F3)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
4	**WP068**	PFO1C	Surface Water (A1) High Water Table (A2) Saturation (A3) Drainage Patterns (B6) Geomorphic Position (D2)	Slippery Elm Red Maple Horsebrier Southern Arrow-Wood	*Ulmus rubra* *Acer rubrum* *Smilax rotundifolia* *Viburnum dentatum*	FAC FAC FAC FAC	Dominance Test	Depleted Matrix (F3)
4	**WP124**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Drainage Patterns (B10)	Red Maple Black Tupelo Horsebrier	*Acer rubrum* *Nyssa sylvatica* *Smilax rotundifolia*	FAC FAC FAC	Dominance Test	Depleted Matrix (F3)
4	**WP412**	PFO	High Water Table (A2) Saturation (A3) Drainage Patterns (B10)	Willow Oak Sweet-Gum Frank's Sedge Highbush Blueberry Black Tupelo Common Greenbrier	*Quercus phellos* *Liquidambar styraciflua* *Carex frankii* *Vaccinium corymbosum* *Nyssa sylvatica* *Smilax rotundifolia*	FACW FAC OBL FACW FAC FAC	Dominance Test	Depleted Matrix (F3)
5, 6	**WP212A, WP212B, WP212C, WP212D, WP212E, WP212F, WP212G**	PFO/PEM	High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Drainage Patterns (B10)	Japanese Stiltgrass Red Maple Willow Oak	*Microstegium vimineum* *Acer rubrum* *Quercus phellos*	FAC FAC FACW	Dominance Test	Depleted Matrix (F3)
4	**WP125**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Geomorphic Position (D2)	Red Maple Cinnamon Fern Horsebrier	*Acer rubrum* *Osmundastrum cinnamomeum* *Smilax rotundifolia*	FAC FACW FAC	Dominance Test	Thin Dark Surface (S9)
4	**WP126**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Northern White Oak Black Tupelo Highbush Blueberry Horsebrier Cinnamon Fern	*Quercus alba* *Nyssa sylvatica* *Vaccinium corymbosum* *Smilax rotundifolia* *Osmundastrum cinnamomeum*	FACU FAC FACW FAC FACW	Dominance Test	Depleted Matrix (F3)
5	**WP317**	PEM	Saturation (A3) Water-Stained Leaves (B9)	Japanese Stiltgrass	*Microstegium vimineum*	FAC	Dominance Test	Depleted Matrix (F3)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
5, 6	**WP300A**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Red Maple Japanese Stiltgrass Skunk-Cabbage Sweet-Gum Spicebush	*Acer rubrum* *Microstegium vimineum* *Symplocarpus foetidus* *Liquidambar styraciflua* *Lindera benzoin*	FAC FAC OBL FAC FACW	Dominance Test	Depleted Matrix (F3)
5, 6	**WP300B**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3)	Japanese Stiltgrass Reed Canary Grass Spotted Touch-Me-Not	*Microstegium vimineum* *Phalaris arundinacea* *Impatiens capensis*	FAC OBL FACW	Dominance Test	Depleted Matrix (F3)
5	**WP305A, WP305B**	PEM	Surface Water (A1) Water-Stained Leaves (B9) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Geomorphic Position (D2)	Marsh Seedbox	*Ludwigia palustris*	OBL	Dominance Test	Depleted Matrix (F3)
5	**WP308**	PFO	Saturation (A3) Water-Stained Leaves (B9)	Red Maple Netted Chain Fern Partridgeberry Common Greenbrier Poison Ivy	*Acer rubrum* *Woodwardia areolata* *Mitchella repens* *Smilax rotundifolia* *Toxicodendron radicans*	FAC OBL FACU FAC FAC	Dominance Test	Depleted Matrix (F3)
5	**WP306**	PFO	High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Geomorphic Position (D2)	American Holly Red Maple White Oak Jewelweed Netted Chain Fern	*Ilex opaca* *Acer rubrum* *Quercus alba* *Impatiens capensis* *Woodwardia areolata*	FAC FAC FACU FACW OBL	Dominance Test	Histostol (A1) Muck Presence (A8)
5	**WP407**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Drainage Patterns (B10) Geomorphic Position (D2)	Red Maple Japanese Stiltgrass Skunk-Cabbage Black Tupelo Sweet Pepperbush Highbush Blueberry Common Greenbrier Oriental Bittersweet	*Acer rubrum* *Microstegium vimineum* *Symplocarpus foetidus* *Nyssa sylvatica* *Clethra alnifolia* *Vaccinium corymbosum* *Smilax rotundifolia* *Celastrus orbiculatus*	FAC FAC OBL FAC FACW FACW FAC FACU	Dominance Test	Depleted Matrix (F3)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
6	**WP217**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Algal Mat or Crust (B4) Hydrogen Sulfide Odor (C1)	Soft Rush Reed Canary Grass	*Juncus effusus* *Phalaris arundinacea*	OBL OBL	Dominance Test	Hydrogen Sulfide (A4) Depleted Matrix (F3)
6	**WP208**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Soft Rush Sweet-Gum Virginia Pine Woolgrass	*Juncus effusus* *Liquidambar styraciflua* *Pinus virginiana* *Scirpus cyperinus*	OBL FAC UPL OBL	Dominance Test	Depleted Matrix (F3)
6	**WP209**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Red Maple Japanese Stiltgrass	*Acer rubrum* *Microstegium vimineum*	FAC FAC	Dominance Test	Depleted Matrix (F3)
6	**WP207**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3)	Soft Rush Slender Rush Eastern Red Cedar Callery Pear	*Juncus effusus* *Juncus tenuis* *Juniperus virginiana* *Pyrus calleryana*	OBL FAC FACU UPL	Prevalence Index	Depleted Matrix (F3)
6	**WP206**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Virginia Pine Red Maple Highbush Blueberry Sweeet-Gum Soft Rush	*Pinus virginiana* *Acer rubrum* *Vaccinium corymbosum* *Liquidambar styraciflua* *Juncus effusus*	UPL FAC FACW FAC OBL	Dominance Test	Depleted Matrix (F3)
6	**WP204**	PEM/PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Boxelder Maple Ground Ivy	*Acer negundo* *Glechoma hederacea*	FAC FACU	Dominance Test	Depleted Matrix (F3)
6	**WP210**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Red Maple Japanese Stiltgrass Callery Pear Virginia Pine American Holly	*Acer rubrum* *Microstegium vimineum* *Pyrus calleryana* *Pinus virginiana* *Ilex opaca*	FAC FAC UPL UPL FAC	Prevalence Index	Depleted Matrix (F3)
4	**WP409**	PEM	High Water Table (A2) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Geomorphic Position (D2)	Japanese Stiltgrass	*Microstegium vimineum*	FAC	Dominance Test	Depleted Matrix (F3)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
8	**WP130**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Sparsely Vegetated Concave Surface (B8) Geomorphic Position (D2)	Sweet-Gum Willow Oak Horsebrier	*Liquidambar styraciflua* *Quercus phellos* *Smilax rotundifolia*	FAC FACW FAC	Dominance Test	Depleted Matrix (F3)
8	**WP074**	PFO	Surface Water (A1) Aquatic Fauna (B13) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Geomorphic Position (D2)	Red Maple Redbud Sweet-Gum Lamp Rush Horsebrier Japanese Honeysuckle	*Acer rubrum* *Cercis canadensis* *Liquidambar styraciflua* *Juncus effusus* *Smilax rotundifolia* *Lonicera japonica*	FAC UPL FAC OBL FAC FACU	Dominance Test	Depleted Matirx (D3)
7	**WP318**	PSS	Surface Water (A1) High Water Table (A2) Saturation (A3)	Japanese Stiltgrass Sweet-Gum Bulrush	*Microstegium vimineum* *Liquidambar styraciflua* *Typha latifolia*	FAC FAC OBL	Dominance Test	Depleted Matrix (F3)
7	**WP314**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Frank's Sedge Sweet-Gum Red Maple	*Carex frankii* *Liquidambar styraciflua* *Acer rubrum*	OBL FAC FAC	Dominance Test	Depleted Matrix (F3)
7	**WP313A, WP313B**	PEM	High Water Table (A2) Saturation (A3)	Soft Rush Giant Goldenrod	*Juncus effusus* *Solidago gigantea*	OBL FACW	Dominance Test	Depleted Matrix (F3)
7	**WP315**	PFO	High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Geomorphic Position (D2)	Sweet-Gum Red Maple Black Tupelo Poison Ivy Sallow Sedge Japanese Honeysuckle Whitegrass Common Greenbrier	*Liquidambar styraciflua* *Acer rubrum* *Nyssa sylvatica* *Toxicodendron radicans* *Carex lurida* *Lonicera japonica* *Leersia virginica* *Smilax rotundifolia*	FAC FAC FAC FAC OBL FACU FACW FAC	Dominance Test	Depleted Matrix (F3)
7	**WP312**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Highbush Blueberry Black Tupelo Sweet-Gum Red Maple Common Greenbrier Virginia Creeper	*Vaccinium corymbosum* *Nyssa sylvatica* *Liquidambar styraciflua* *Acer rubrum* *Smilax rotundifolia* *Parthenocissus quinquefolia*	FACW FAC FAC FAC FAC FACU	Dominance Test	Depleted Matrix (F3)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
7	**WP316**	PFO	High Water Table (A2) Saturation (A3)	Loblolly Pine Sweet-Gum Red Maple Black Tupelo Highbush Blueberry Common Greenbrier	*Pinus taeda* *Liquidambar styraciflua* *Acer rubrum* *Nyssa sylvatica* *Vaccinium corymbosum* *Smilax rotundifolia*	FAC FAC FAC FAC FACW FAC	Dominance Test	Depleted Matrix (F3) Depleted Below Dark Surfaces (A11)
7	**WP311A, WP311B**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Red Maple Sweet-Gum Kidneyleaf Buttercup Reed Canary Grass	*Acer rubrum* *Liquidambar styraciflua* *Ranunculus abortivus* *Phalaris arundinacea*	FAC FAC FACW OBL	Dominance Test	Depleted Matrix (F3)
7	**WP309**	PEM	High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B8)	Reed Canary Grass	*Phalaris arundinacea*	OBL	Dominance Test	Depleted Matrix (F3)
8	**WP218**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Sweet-Gum Poison Ivy Willow Oak Soft Rush Wild Privet Loblolly Pine	*Liquidambar styraciflua* *Toxicodendron radicans* *Quercus phellos* *Juncus effusus* *Ligustrum vulgare* *Pinus taeda*	FAC FAC FACW OBL UPL FAC	Dominance Test	Depleted Matrix (F3)
8	**WP220**	PEM	High Water Table (A2) Saturation (A3)	Common Greenbrier Soft Rush Sweet-Gum	*Smilax rotundifolia* *Juncus effusus* *Liquidambar styraciflua*	FAC OBL FAC	Dominance Test	Depleted Matrix (F3)
8	**WP219**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Red Maple Japanese Stiltgrass Sweet-Gum	*Acer rubrum* *Microstegium vimineum* *Liquidambar styraciflua*	FAC FAC FAC	Dominance Test	Depleted Matrix (F3)
8	**WP322**	PFO	Water Marks (B1) Sediment Deposits (B2) Drift Deposits (B3)	Black Tupelo Japanese Stiltgrass Spotted Touch-Me-Not Northern Red Oak	*Nyssa sylvatica* *Microstegium vimineum* *Impatiens capensis* *Quercus rubra*	FAC FAC FACW FACU	Dominance Test	Depleted Matrix (F3)
8	**WP075**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Southern Arrow-Wood Common Reed	*Viburnum dentatum* *Phragmites australis*	FAC FACW	Dominance Test	Redox Depressions (F8)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
8	**WP079**	PEM	Surface Water (A1) High Water Table (A2) Water-Stained Leaves (B9) Geomorphic Position (D2)	Red Maple Sweet-Gum Arrow-Leaf Tearthumb Shallow Sedge	*Acer rubrum* *Liquidambar styraciflua* *Persicaria sagittata* *Carex lurida*	FAC FAC OBL OBL	Dominance Test	Depleted Matrix (F3)
8	**WP403**	PFO	High Water Table (A2) Saturation (A3)	Northern Red Oak Red Maple Sweet-Gum Japanese Stiltgrass Horsebrier	*Quercus rubra* *Acer rubrum* *Liquidambar styraciflua* *Microstegium vimineum* *Smilax rotundifolia*	FACU FAC FAC FAC FAC	Dominance Test	Depleted Matrix
8	**WP402**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3)	Red Maple Northern White Oak Sweet-Gum Horsebrier Japanese Honeysuckle	*Acer rubrum* *Quercus alba* *Liquidambar styraciflua* *Smilax rotundifolia* *Lonicera japonica*	FAC FACU FAC FAC FACU	Dominance Test	Redox Dark Surface (F6)
8	**WP406**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Sweet-Gum Black Willow Pin Oak Common Reed	*Liquidambar styraciflua* *Salix nigra* *Quercus palustris* *Phragmites australis*	FAC OBL FACW FACW	Dominance Test	Depleted Matrix (F3)
9	**WP229**	PFO	Surface Water (A1) Water-Stained Leaves (B9) Hydrogen Sulfide Odor (C1)	Red Maple Black Tupelo Sweet-Gum Shallow Sedge Japanese Stiltgrass Multiflora Rose Common Greenbrier	*Acer rubrum* *Nyssa sylvatica* *Liquidambar styraciflua* *Carex lurida* *Microstegium vimineum* *Rosa multiflora* *Smilax rotundifolia*	FAC FAC FAC OBL FAC FACU FAC	Dominance Test	Depleted Matrix (F3)
9	**WP221**	PFO	High Water Table (A2) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Geomorphic Position (D2)	Skunk-Cabbage Red Maple Sweet-Gum American Holly	*Symplocarpus foetidus* *Acer rubrum* *Liquidambar styraciflua* *Ilex opaca*	OBL FAC FAC FAC	Dominance Test	Hydrogen Sulfide (A4)
9	**WP227**	PEM	High Water Table (A2) Water-Stained Leaves (B9)	Common Spike-Rush	*Eleocharis palustris*	OBL	Dominance Test	Sandy Redox (S5)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
9	**WP225**	PFO	High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Oxidized Rhizospheres on Living Roots (C3) Geomorphic Position (D2)	Southern Red Oak Highbush Blueberry Common Greenbrier Japanese Honeysuckle Sallow Sedge	*Quercus falcata* *Vaccinium corymbosum* *Smilaz rotundifolia* *Lonicera japonica* *Carex lurida*	FACU FACW FAC FACU OBL	Dominance Test	Depleted Matrix (F3)
9	**WP226**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves(B9) Geomorphic Position (D2)	Black Tupelo Pin Oak Sweet White Violet Japanese Stiltgrass Highbush Blueberry	*Nyssa sylvatica* *Quercus palustris* *Viola blanda* *Microstegium vimineum* *Vaccinium corymbosum*	FAC FACW FACW FAC FACW	Dominance Test	Depleted Matrix (F3)
9	**WP231, WP231B**	PFO	Water-Stained Leaves (B9) Geomorphic Position (D2)	Red Maple Sweet-Gum Skunk-Cabbage Japanese Stiltgrass	*Acer rubrum* *Liquidambar styraciflua* *Symplocarpus foetidus* *Microstegium vimineum*	FAC FAC OBL FAC	Dominance Test	Depleted Matrix (F3)
9	**WP234**	PFO	Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Japanese Stiltgrass Red Maple Sweet-Gum False Nettle Poison Ivy	*Microstegium vimineum* *Acer rubrum* *Liquidambar styraciflua* *Boehmeria cylindrica* *Toxicodendron radicans*	FAC FAC FAC FACW FAC	Dominance Test	Depleted Matrix (F3)
10	**WP605**	PFO	Wetland delineated during July 2019 Agency Site Visits, per direction from MDE. Datasheet not prepared. This area receives flow from WL091 and exhibited hydric soils (F3), FAC vegetation (American holly, blackgum, common greenbrier), and hydrology (saturation). MDE confirmed the field-delineated boundary and indicators.					
10	**WP604**	PFO	Wetland delineated during July 2019 Agency Site Visits, per direction from MDE. Datasheet not prepared. This small depressional area exhibited hydric soils (redox mottles), hydrophytic vegetation (red maple), and hydrology (sparsely vegetated concave surface, water-stained leaves). MDE confirmed the field-delineated boundary and indicators. A wood frog was observed in this area.					
10	**WP054**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3)	Lamp Rush Shallow Sedge	*Juncus effusus* *Carex lurida*	OBL OBL	Dominance Test	Depleted Matrix (F3)
10	**WP084**	PFO/PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B8) Geomorphic Position (D2)	Red Maple Willow Oak	*Acer rubrum* *Quercus phellos*	FAC FACW	Dominance Test	Depleted Matrix (F3)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
10	**WP055**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3)	Black Tupelo Virginian Cutgrass	*Nyssa sylvatica* *Leersia virginica*	FAC FACW	Dominance Test	Depleted Matrix (F3)
	PATUXENT RIVER WATERSHED							
10	**WP056**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Black Willow American Elm Red Maple Sweet-Gum Rice Cutgrass	*Salix nigra* *Ulmus americana* *Acer rubrum* *Liquidambar styraciflua* *Leersia oryzoides*	OBL FAC FAC FAC OBL	Dominance Test	Depleted Matrix (F3)
11	**WP153**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Red Maple Black Tupelo American Beech Horsebrier	*Acer rubrum* *Nyssa sylvatica* *Fagus grandifolia* *Smilax rotundifolia*	FAC FAC FACU FAC	Dominance Test	Depleted Matrix (F3)
11	**WP063/ WP063B**	PFO	High Water Table (A2) Saturation (A3) Drift Deposits (B3) Geomorphic Position (D2)	Sweet-Gum Red Maple Horsebrier Virginia Creeper Southern Arrowwood	*Liquidambar styraciflua* *Acer rubrum* *Smilax rotundifolia* *Parthenocissus quinquefolia* *Viburnum dentatum*	FAC FAC FAC FACU FAC	Dominance Test	Depleted Matrix (F3)
11	**WP108/ WP108A**	PFO1E	Surface Water (A1) High Water Table (A2) Saturation (A3) Water Marks (B1) Water-Stained Leaves (B9) Hydrogen Sulfide Odor (C1) Presence of Reduced Iron (C4) Drainage Patterns (B10) Crayfish Burrows (C8) Geomorphic Position (D2) Sphagnum moss (D8)	Black Tupelo Sweet-Gum American Beech Horsebrier Sweet Wood-Reed	*Nyssa sylvatica* *Liquidambar styraciflua* *Fagus grandifolia* *Smilax rotundifolia* *Cinna arundinacea*	FAC FAC FACU FAC FACW	Dominance Test	Hydrogen Sulfide (A4)/ Depleted Matrix (F3)
11	**WP066**	PFO1C	High Water Table (A2) Drift Deposits (B3) Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Red Maple Northern Spicebush Deer-Tongue Rosette Grass Virginian Cutgrass	*Acer rubrum* *Lindera benzoin* *Dichanthelium clandestinum* *Leersia virginica*	FAC FACW FACW FACW	Dominance Test	Depleted Matrix (F3)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
11	**WP020**	PFO1E	Surface Water (A1) Water Marks (B1) Water-Stained Leaves (B9) Geomorphic Position (D2)	Sweet-Gum Pin Oak Red Maple American Elm Green Ash Japanese Stiltgrass Horsebrier Sweet Wood-Reed	*Liquidambar styraciflua* *Quercus palustris* *Acer rubrum* *Ulmus americana* *Fraxinus pennsylvanica* *Microstegium vimineum* *Smilax rotundifolia* *Cinna arundinacea*	FAC FACW FAC FAC FACW FAC FAC FACW	Dominance Test	Pending hydric soil assessment at PRR
11	**WP112**	PEM	High Water Table (A2) Saturation (A3) Inundation Visible on Aerial Imagery (B7) Drainage Patterns (B10) Geomorphic Position (D2)	Japanese Stiltgrass	*Microstegium vimineum*	FAC	Dominance Test	Depleted Matrix (F3)
11	**WP023**	PFO	Surface Water (A1) Water-Stained Leaves (B9)	Willow Oak Red Maple American Hophornbeam Sweet Wood-Reed Horsebrier	*Quercus phellos* *Acer rubrum* *Ostyra virginiana* *Cinna arundinacea* *Smilax rotundifolia*	FACW FAC FACU FACW FAC	Dominance Test	Pending hydric soil assessment at PRR
11	**WP022**	PFO	Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Sweet-Gum Red Maple Eastern Hop-Hornbeam American Elm Horsebrier Green Ash	*Liquidambar styraciflua* *Acer rubrum* *Ostrya virnginiana* *Ulmus americana* *Smilax rotundifolia* *Fraxinus pensylvanica*	FAC FAC FACU FAC FAC FACW	Dominance test	Pending hydric soil assessment at PRR
11	**WP161**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Geomorphic Position (D2)	Northern Red Oak Sweet-Gum Horsebrier	*Quercus rubra* *Liquidambar styraciflua* *Smilax rotundifolia*	FACU FAC FAC	Dominance Test	Depleted Matrix (F3)
11	**WP111**	PFO1E	Surface Water (A1) High Water Table (A2) Saturation (A3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9) Moss Trim Lines (B16) Geomorphic Position (D2)	Red Maple Slippery Elm Sweet-Gum Northern Spicebush Green Ash Horsebrier	*Acer rubrum* *Ulmus rubra* *Liquidambar styraciflua* *Lindera benzoin* *Fraxinus pennsylvanica* *Smilax rotundifolia*	FAC FAC FAC FACW FACW FAC	Dominance Test	Depleted Matrix (F3)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
11, 12	**WP070**	PFO1E/PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Sparsely Vegetated Concave Surface (B8) Geomorphic Position (D2)	Red Maple Sweet-Gum Black Tupelo American Hornbeam Horsebrier Sweet Wood-Reed	*Acer rubrum* *Liquidambar styraciflua* *Nyssa sylvatica* *Carpinus caroliniana* *Smilax rotundifolia* *Cinna arundinacea*	FAC FAC FACW FAC FAC FACW	Dominance Test	Depleted Matrix (F3)
11, 12	**WP160**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Geomorphic Position (D2)	Red Maple Ironwood American Holly Partridge-Berry	*Acer rubrum* *Carpinus caroliniana* *Ilex opaca* *Mitchella repen*	FAC FAC FAC FACU	Dominance Test	Depleted Matrix (F3)
12	**WP026**	PFO	Water-Stained Leaves (B9) Geomorphic Position (D2)	Red Maple Sweet-Gum Horsebrier Sweet Wood-Reed Japanese Stiltgrass	*Acer rubrum* *Liquidambar styraciflua* *Smilax rotundifolia* *Cinna arundinacea* *Microstegium vimineum*	FAC FAC FAC FACW FAC	Dominance Test	Pending hydric soil assessment at PRR
12	**WP107, WP107A, WP107B**	PFO	Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10)	Red Maple American Beech Japanese Stiltgrass Horsebrier	*Acer rubrum* *Fagus grandifolia* *Microstegium vimineum* *Smilax rotundifolia*	FAC FACU FAC FAC	Dominance Test	Pending hydric soil assessment at PRR
12	**WP106**	PFO	Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Red Maple Sweet-Gum Ironwood Japanese Stiltgrass Sensitive Fern	*Acer rubrum* *Liquidambar styraciflua* *Carpinus caroliniana* *Microstegium vimineum* *Onoclea sensibilis*	FAC FAC FAC FAC FACW	Dominance Test	Pending hydric soil assessment at PRR
12	**WP102**	PFO	Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Red Maple Slippery Elm Japanese Barberry Japanese Stiltgrass Pennsylvania Smartweed Sweet Wood-Reed	*Acer rubrum* *Ulmus rubra* *Berberis thunbergii* *Microstegium vimineum* *Persicaria pennsylvanica* *Cinna arundinacea*	FAC FAC UPL FAC FACW FACW	Dominance Test	Pending hydric soil assessment at PRR
12	**WP158**	PFO	Saturation (A3) Water-Stained Leaves (B9) Geomorphic Position (D2)	Sweet-Gum Japanese Stilt-Grass	*Liquidambar styraciflua* *Microstegium vimineum*	FAC FAC	Dominance Test	Pending hydric soil assessment at PRR

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
12	**WP104**	PEM	Surface Water (A1) Water-Stained Leaves (B9)	Pennsylvania Smartweed Green Bulrush	*Persicaria pensylvanica* *Scirpus atrovirens*	FACW OBL	Dominance Test	Pending hydric soil assessment at PRR
13	**WP015**	PFO	Surface Water (A1) Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Black Tupelo American Beech Horsebrier	*Nyssa sylvatica* *Fagus grandifolia* *Smilax rotundifolia*	FAC FACU FAC	Dominance Test	Pending hydric soil assessment at PRR
13	**WP012**	PFO	Surface Water (A1) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B6) Drainage Patterns (B10) Geomorphic Positions (D2)	Red Maple Sweet-Gum Black Tupelo	*Acer rubrum* *Liquidambar styraciflua* *Nyssa sylvatica*	FAC FAC FAC	Dominance Test	Pending hydric soil assessment at PRR
13	**WP166**	PFO	Surface Water (A1) High Water Table (A2) Water-Stained Leaves (B9) Geomorphic Position (D2)	Sweet-Gum	*Liquidambar styraciflua*	FAC	Dominance Test	Depleted Matrix (F3)
13	**WP009**	PFO	Surface Water (A1)	Sweet-Gum Horsebrier Shallow Sedge	*Liquidambar styraciflua* *Smilax rotundifolia* *Carex lurida*	FAC FAC OBL	Dominance Test	Pending hydric soil assessment at PRR
13	**WP414A, WP414B**	PEM	Surface Water (A1) Drainage Patterns (B10) Geomorphic Position (D2)	Rice Cutgrass Soft Rush Woolgrass Sweet-Gum	*Leersia oryzoides* *Juncus effusus* *Scirpus cyperinus* *Liquidambar styraciflua*	OBL OBL OBL FAC	Dominance Test	Pending hydric soil assessment at PRR
13	**WP050**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Drainage Patterns (B10) Geomorphic Position (D2)	Sweet-Gum Virginia Creeper Chinese Wisteria	*Liquidambar styraciflua* *Parthenocissus quinquefolia* *Wisteria sinensis*	FAC FACU NI	Dominance Test	Depleted Below Dark Surface (A11)
13	**WP008**	PEM	Surface Water (A1) Geomorphic Position (D2)	Tapered Rosette Grass Pointed Broom Sedge Deer-Tongue Rosette Grass	*Dichanthelium acuminatum* *Carex scoparia* *Dichanthelium clandestinum*	FAC FACW FACW	Dominance Test	Pending hydric soil assessment at PRR

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
13	**WP162**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B8) Geomorphic Position (D2)	Red Maple Northern White Oak Horsebrier	*Acer rubrum* *Quercus alba* *Smilax rotundifolia*	FAC FACU FAC	Dominance Test	Depleted Matrix (F3)
13	**WP004**	PEM/ PFO	Drift Deposits (B3) Crayfish Burrows (C8) Geomorphic Position (D2)	Japanese Stiltgrass Dotted Smartweed	*Microstegium vimineum* *Persicaria punctata*	FAC OBL	Dominance Test	Pending hydric soil assessment at PRR
13, 14	**WP001**	PEM	Algal Mat or Crust (B4) Surface Soil Cracks (B6) Sparsely Vegetated Concave Surface (B8) Drainage Patterns (B10) Crayfish Burrows (C8) Geomorphic Position (D2)	Pointed Broom Sedge Asiatic Tearthumb	*Carex scoparia* *Persicaria perfoliata*	FACW FAC	Dominance Test	Pending hydric soil assessment at PRR
13, 14	**WP002**	PEM	Geomorphic Position (D2)	Sweet-Bay Magnolia Northern White Oak Horsebrier Japanese Stiltgrass Shallow Sedge Arrow-Leaf Tearthumb	*Magnolia virginiana* *Quercus alba* *Smilax rotundifolia* *Microstegium vimineum* *Carex lurida* *Persicaria sagittata*	FACW FACU FAC FAC OBL OBL	Dominance Test	Pending hydric soil assessment at PRR
13, 14	**WP038**	PEM	High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B6) Geomorphic Position (D2)	Black Tupelo	*Nyssa sylvatica*	FAC	Dominance Test	Depleted Matrix (F3)
15	**WP170**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Northern Red Oak Black Tupelo Red Maple American Beech Horsebrier Sweet Wood-Reed	*Quercus rubra* *Nyssa sylvatica* *Acer rubrum* *Fagus grandifolia* *Smilax rotundifolia* *Cinna arundinacea*	FACU FAC FAC FACU FAC FACW	Dominance Test	Depleted Matrix (F3)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
13	**WP238**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Sweet-Gum Japanese Stiltgrass Tuliptree American Holly	*Liquidambar styraciflua* *Microstegium vimineum* *Liriodendron tulipifera* *Ilex opaca*	FAC FAC FACU FAC	Dominance Test	Depleted Matrix (F3)
15	**WP239A, WP239B, WP239C**	PEM/PFO	Surface Water (A1) High Water Table (A2) Saturation (A3)	Reed Canary Grass	*Phalaris arundinacea*	OBL	Dominance Test	Depleted Matrix (F3)
15	**WP179**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Sparsely Vegetated Concave Surface (B8) Geomorphic Position (D2)	Horsebrier	*Smilax rotundifolia*	FAC	Dominance Test	Dark Surface (F7)
15	**WP177**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2)	Red Maple Horsebrier	*Acer rubrum* *Smilax rotundifolia*	FAC FAC	Dominance Test	Depleted Matrix (F3)
14, 15	**WP174**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9)	American Sycamore Red Maple	*Platanus occidentalis* *Acer rubrum*	FACW FAC	Dominance Test	Depleted Matrix (F3)
14	**WP173**	PEM	Water-Stained Leaves (B9) Geomorphic Position (D2)	Japanese Stiltgrass	*Microstegium vimineum*	FAC	Dominance Test	Depleted Matrix (F3)
14, 15	**WP171**	PEM	Water-Stained Leaves (B9) Drainage Patterns (B10) Geomorphic Position (D2	Red Maple Japanese Stiltgrass Broom-Sedge	*Acer rubrum* *Microstegium vimineum* *Andropogon virginicus*	FAC FAC FAC	Dominance Test	Depleted Matrix (F3)
14	**WP043**	PUB	N/A	N/A	N/A	N/A	N/A	N/A

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
15	**WP180**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9)	Sweet-Bay Sweet-Gum Horsebrier Skunk-Cabbage	*Magnolia virginiana* *Liquidambar styraciflua* *Smilax rotundifolia* *Symplocarpus foetidus*	FACW FAC FAC OBL	Dominance Test	Depleted Matrix (F3)
14, 15	**WP184**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9)	Red Maple Tuliptree Sweet-Gum Horsebrier Partridge-Berry	*Acer rubrum* *Liriodendron tulipifera* *Liquidambar styraciflua* *Smilax rotundifolia* *Mitchella repens*	FAC FACU FAC FAC FACU	Dominance Test	Depleted Matrix (F3)
14, 15	**WP183**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9)	Sweet-Gum Tuliptree American Beech Cinnamon Fern Horsebrier	*Liquidambar styraciflua* *Liriodendron tulipifera* *Fagus grandifolia* *Osmundastrum cinnamomeum* *Smilax rotundifolia*	FAC FACU FACU FACW FAC	Dominance Test	Depleted Matrix (F3)
14, 15	**WP182**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9)	Tuliptree Red Maple Sweet-Gum American Beech Horsebrier	*Liriodendron tulipifera* *Acer rubrum* *Liquidambar styraciflua* *Fagus grandifolia* *Smilax rotundifolia*	FACU FAC FAC FACU FAC	Dominance Test	Depleted Matrix (F3)
14	**WP030**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)	Rice Cutgrass	*Leersia oryzoides*	OBL	Dominance Test	Hydrogen Sulfide (A4) Depleted Matrix (F3)
14, 16	**WP031**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3)	Lizard's Tail Japanese Stiltgrass Branched Burr-Reed	*Saururus cernuus* *Microstegium vimineum* *Sparganium androcladum*	OBL FAC OBL	Dominance Test	Depleted Matrix (F3)
14, 16	**WP156**	PUB	N/A	N/A	N/A	N/A	N/A	N/A

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Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
16	**WP198**	PEM/PSS	Surface Water (A1) High Water Table (A2) Saturation (A3)	Broad-Leaf Cat-Tail	*Typha latifolia*	OBL	Dominance Test	Depleted Matrix (F3)
16	**WP199**	PEM/PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10)	Sweet-Gum Red Maple Skunk-Cabbage Three-Way Sedge	*Liquidambar styraciflua* *Acer rubrum* *Symplocarpus foetidus* *Dulichium arundinaceum*	FAC FAC OBL OBL	Dominance Test	Hydrogen Sulfide (A4)
16	**WP202**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Drift Deposits (B3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Common Reed	*Phragmites australis*	FACW	Dominance Test	Depleted Matrix (F3)
16	**WP203**	PEM1Fx	Surface Water (A1) High Water Table (A2) Saturation (A3) Drift Deposits (B3) Inundation Visible on Aerial Imagery (B7) Water-Stained Leaves (B9)	Sweet-Gum Common Reed	*Liquidambar styraciflua* *Phragmites australis*	FAC FACW	Dominance Test	Depleted Matrix (F3)
17	**WP141**	PEM	Surface Water (A1) Geomorphic Position (D2)	Wand Panic Grass Curly Dock	*Panicum virgatum* *Rumex crispus*	FAC FAC	Dominance Test	Depleted Matrix (F3)
17	**WP138**	PEM	Surface Water (A1) Saturation (A3)	Narrow-Leaf Cat-Tail Small Carp Grass	*Typha angustifolia* *Arthraxon hispidus*	OBL FAC	Dominance Test	Depleted Matrix (F3)
17	**WP140**	PEM	High Water Table (A2) Saturation (A3)	Eastern Cottonwood Common Reed	*Populus deltoides* *Phragmites australis*	FAC FACW	Dominance Test	Depleted Matrix (F3)
17	**WP147**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Geomorphic Position (D2)	Sweet-Gum Red Maple American Holly Japanese Siltgrass	*Liquidambar styraciflua* *Acer rubrum* *Ilex opaca* *Microstegium vimineum*	FAC FAC FAC FAC	Dominance Test	Redox Dark Surface (F6)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
17	**WP145**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Geomorphic Position (D2)	American Beech Sweet-Gum Horsebrier Japanese Stiltgrass	*Fagus grandifolia* *Liquidambar styraciflua* *Smilax rotundifolia* *Microstegium viminem*	FACU FAC FAC FAC	Dominance Test	Redox Dark Surface (F6)
17	**WP144**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Geomorphic Position (D2)	American Beech Red Maple Horsebrier	*Fagus grandifolia* *Acer rubrum* *Smilax rotundifolia*	FACU FAC FAC	Dominance Test	Redox Dark Surface (F6)
17	**WP143**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Geomorphic Position (D2)	Tuliptree Sweet-Gum Cinnamon Fern Skunk-Cabbage	*Liriodendron tulipifera* *Liquidambar styracuflua* *Osmundastrum cinnamomeum* *Symplocarpus foetidus*	FACU FAC FACW OBL	Dominance Test	Depleted Matrix (F3)
17	**11-AN**	PFO	Wetland was delineated by Ft. George G. Meade staff in 2014, and boundaries were verified by Straughan in 2020. Sample plot data not available. This wetland connects to WP143 outside of the study area.					
17, 18	**WP242**	PFO	High Water Table (A2) Geomorphic Position (D2)	Tuliptree Japanese Stiltgrass New York Fern Skunk-Cabbage Sweet-Gum	*Liriodendron tulipfera* *Microstegium vimineum* *Parathelypteris noveboracensis* *Symplocarpus foetidus* *Liquidambar styraciflua*	FACU FAC FAC OBL FAC	Dominance Test	Redox Dark Surface (F6)
18	**WP148**	PFO	Surface Water (A1) High Water Table (A2)	Sweet-Gum Red Maple Horsebrier Sweet Wood-Reed	*Liquidambar styraciflua* *Acer rubrum* *Smilax rotundifolia* *Cinna arundinacea*	FAC FAC FAC FACW	Dominance Test	Depleted Matrix (F3)
18	**11-CH**	PEM	Wetland was delineated by Ft. George G. Meade staff in 2014, and boundaries were verified by Straughan in 2020. Sample plot data not available.					
18	**WP149**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Drainage Patterns (B10)	Red Maple Sweet-Gum Cinnamon Fern	*Acer rubrum* *Liquidambar styraciflua* *Osmundastrum cinnamomeum*	FAC FAC FACW	Dominance Test	Depleted Matrix (F3)
18	**WP241**	PFO	Water-Stained Leaves (B9) Geomorphic Position (D2)	Red Maple Japanese Stiltgrass Soft Rush	*Acer rubrum* *Microstegium vimineum* *Juncus effusus*	FAC FAC OBL	Dominance Test	Depleted Matrix (F3)

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
18	**WP151**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9)	Red Maple Sweet-Gum Coastal Sweet-Pepperbush Horsebrier Cinnamon Fern	*Acer rubrum* *Liquidambar styraciflua* *Clethra alnifolia* *Smilax rotundifolia* *Osmundastrum cinnamomeum*	FAC FAC FACW FAC FACW	Dominance Test	Depleted Matrix (F3)
	PATAPSCO RIVER WATERSHED							
20	**WP168**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Geomorphic Position (D2)	Broad-Leaf Cat-Tail Lamp Rush Cottongrass Bulrush	*Typha latifolia* *Juncus effusus* *Scirpus cyperinus*	OBL OBL OBL	Dominance Test	Sandy Redox (S5)
22	**WP098**	PEM1R	Surface Water (A1) High Water Table (A2) Saturation (A3) Inundation Visible on Aerial Imagery (B7) Hydrogen Sulfide Odor (C1) Drainage Patterns (B10) Geomorphic Position (D2)	Common Reed	*Phragmites australis*	FACW	Rapid Test for Hydrophytic Vegetation/ Dominance Test	Hydrogen Sulfide (A4)
22	**WP096**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Shallow Aquitard (D3)	Lamp Rush Japanese Stiltgrass	*Juncus effusus* *Microstegium vimineum*	OBL FAC	Dominance Test	Depleted Matrix (F3)
23	**WP169A/ WP169B**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Drainage Patterns (B10) Geomorphic Position (D2)	Common Reed	*Phragmites australis*	FACW	Dominance Test	Depleted Matrix (F3)
23	**WP095/ WP095B**	PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Water-Stained Leaves (B9) Geomorphic Position (D2)	Red Maple Eurasian-Buttercup	*Acer rubrum* *Ficaria verna*	FAC FAC	Dominance Test	Redox Dark Surface (F6)
23	**WP603**	PEM	Wetland delineated during July 2019 Agency Site Visits, per direction from MDE. Datasheet not prepared. This ponded area is potentially an unmaintained stormwater management feature between the Light Rail track embankment and the BGE right-of-way. It exhibited open water with emergent vegetation. MDE requested this system be delineated via aerial mapping.					

Table E.2. Field-Delineated Wetland Summary

Map Sheet No.	Wetland ID[i]	Cowardin Classification[ii]	Wetland Hydrology Indicator	Hydrophytic Vegetation[iii]				Hydric Soil Indicator
				Common Name	Scientific Name	Indicator Status	Indicator	
23	**WP092/ WP092B**	PEM	Surface Water (A1) Saturation (A3) Geomorphic Position (D2)	Common Reed Wand Panic Grass	*Phragmites australis* *Panicum virgatum*	FACW FAC	Dominance Test	Depleted Matrix (F3)
23	**WP093**	PEM	Surface Water (A1) Saturation (A3)	Wand Panic Grass	*Panicum virgatum*	FAC	Dominance Test	Depleted Matrix (F3)
24	**WP196**	PUB	N/A	N/A	N/A	N/A	N/A	N/A
24, 25	**WP195**	PEM/PFO	Surface Water (A1) High Water Table (A2) Saturation (A3) Drainage Patterns (B10) Geomorphic Position (D2)	Black Willow Lamp Rush	*Salix nigra* *Juncus effusus*	OBL OBL	Dominance Test	Depleted Matrix (F3)
24, 25	**WP194**	PEM	Surface Water (A1) High Water Table (A2) Saturation (A3) Sparsely Vegetated Concave Surface (B8)	Narrow-Leaf Cat-Tail Lamp Rush	*Typha angustifolia* *Juncus effusus*	OBL OBL	Rapid Test for Hydrophytic Vegetation	Depleted Matrix (F3)

[i] These tables include systems that were field-delineated by Straughan and all 600-systems that were added by as directed during agencies site visits. This table excludes all 500-systems, which were desktop-delineated.

[ii] Based on Cowardin, et al. 1979 and FGDC (2013).

[iii] Based on Lichvar, et al. 2016.