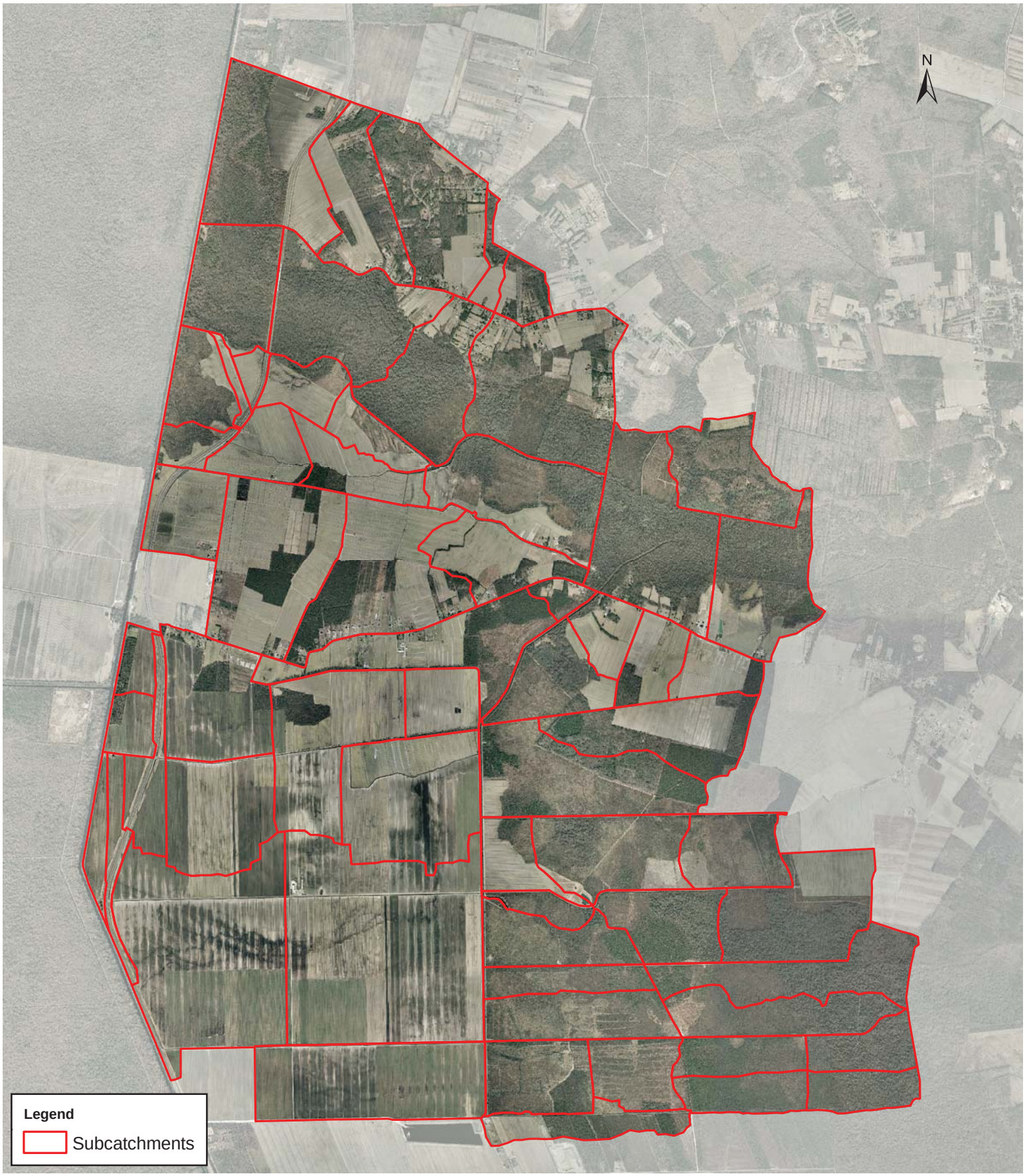
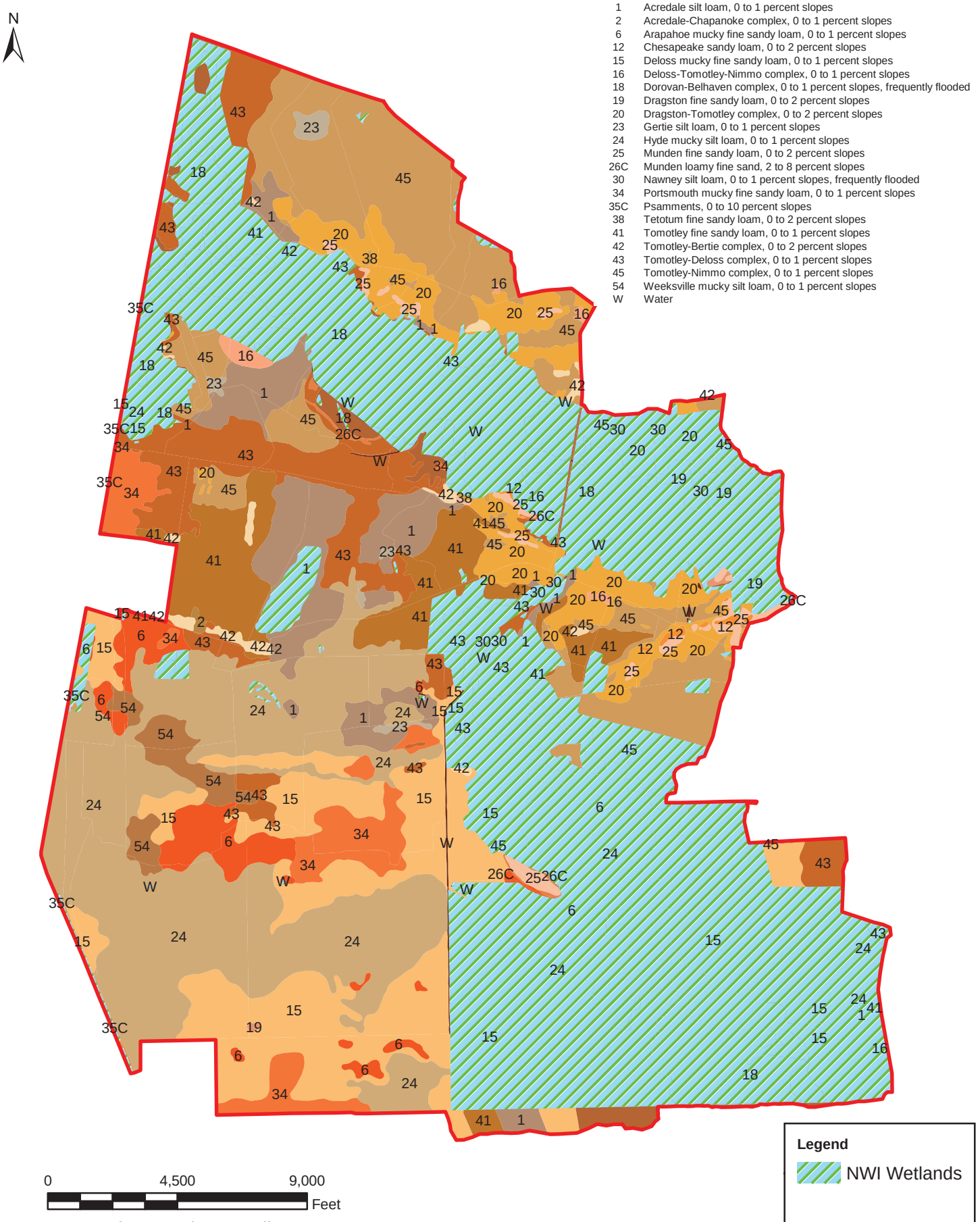


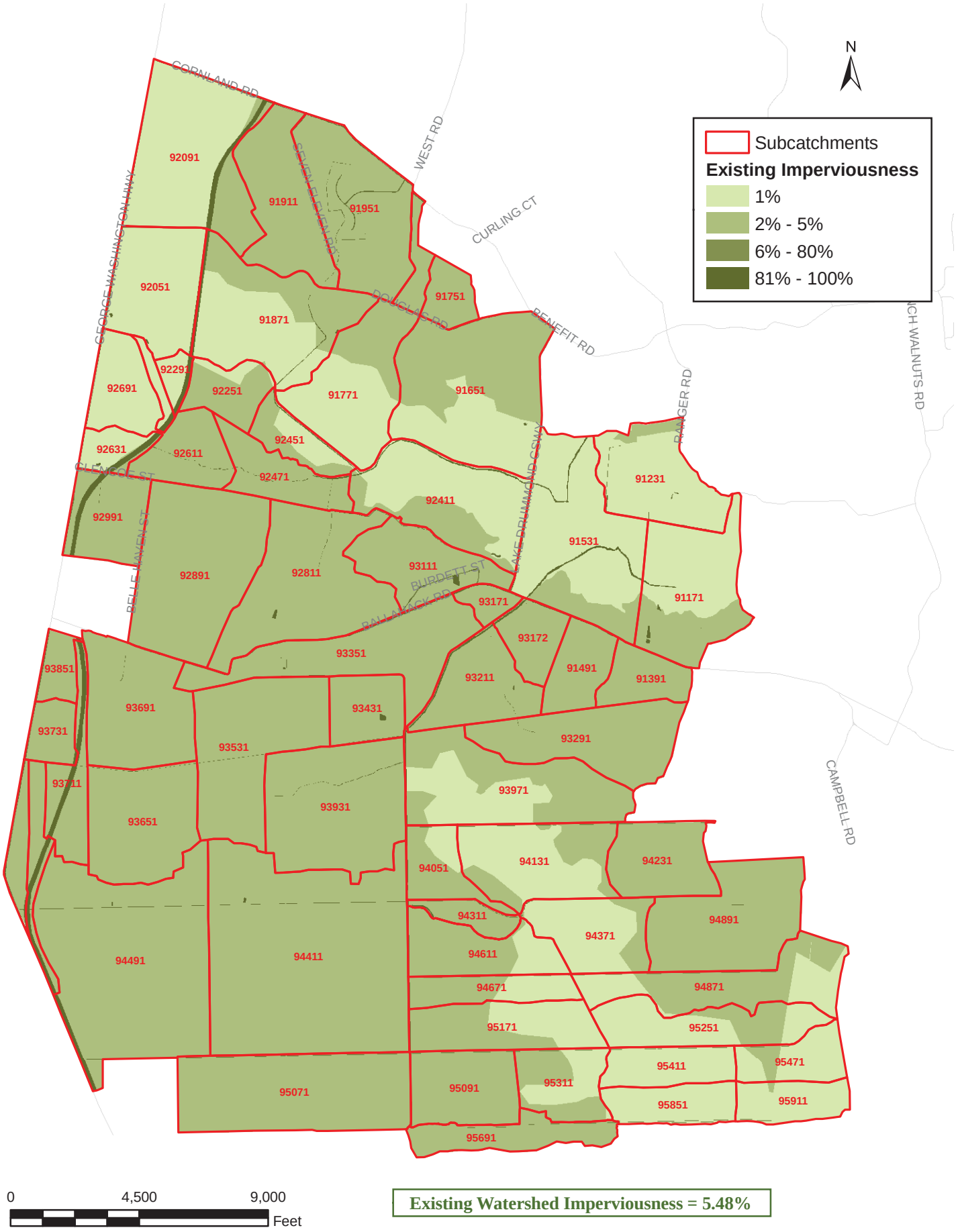
See GIS for Complete Details

Figure 1. Southern Chesapeake 4 Watershed Map



See GIS for Complete Details

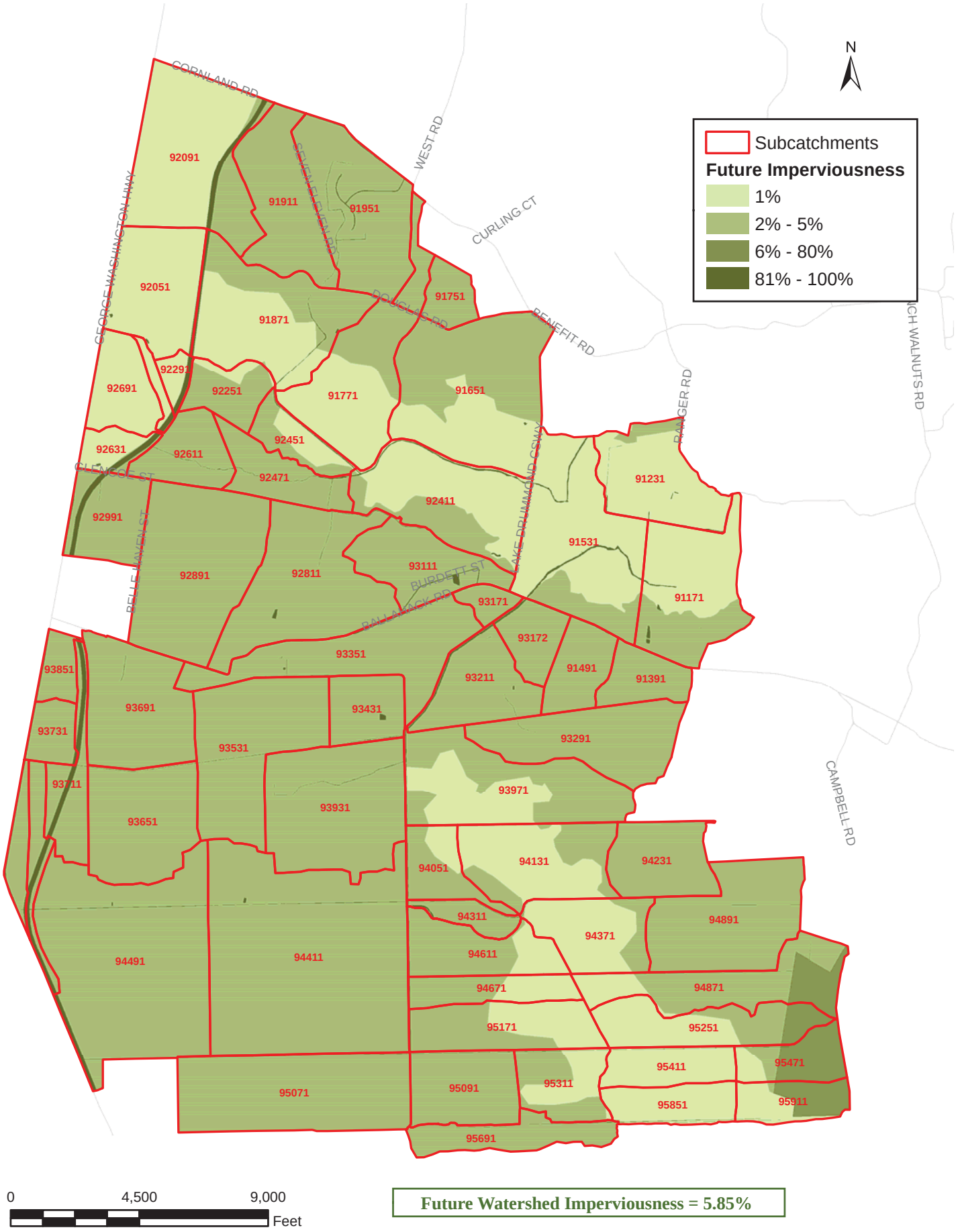
Figure 2. Soils with Wetlands Overlay



Existing Watershed Imperviousness = 5.48%

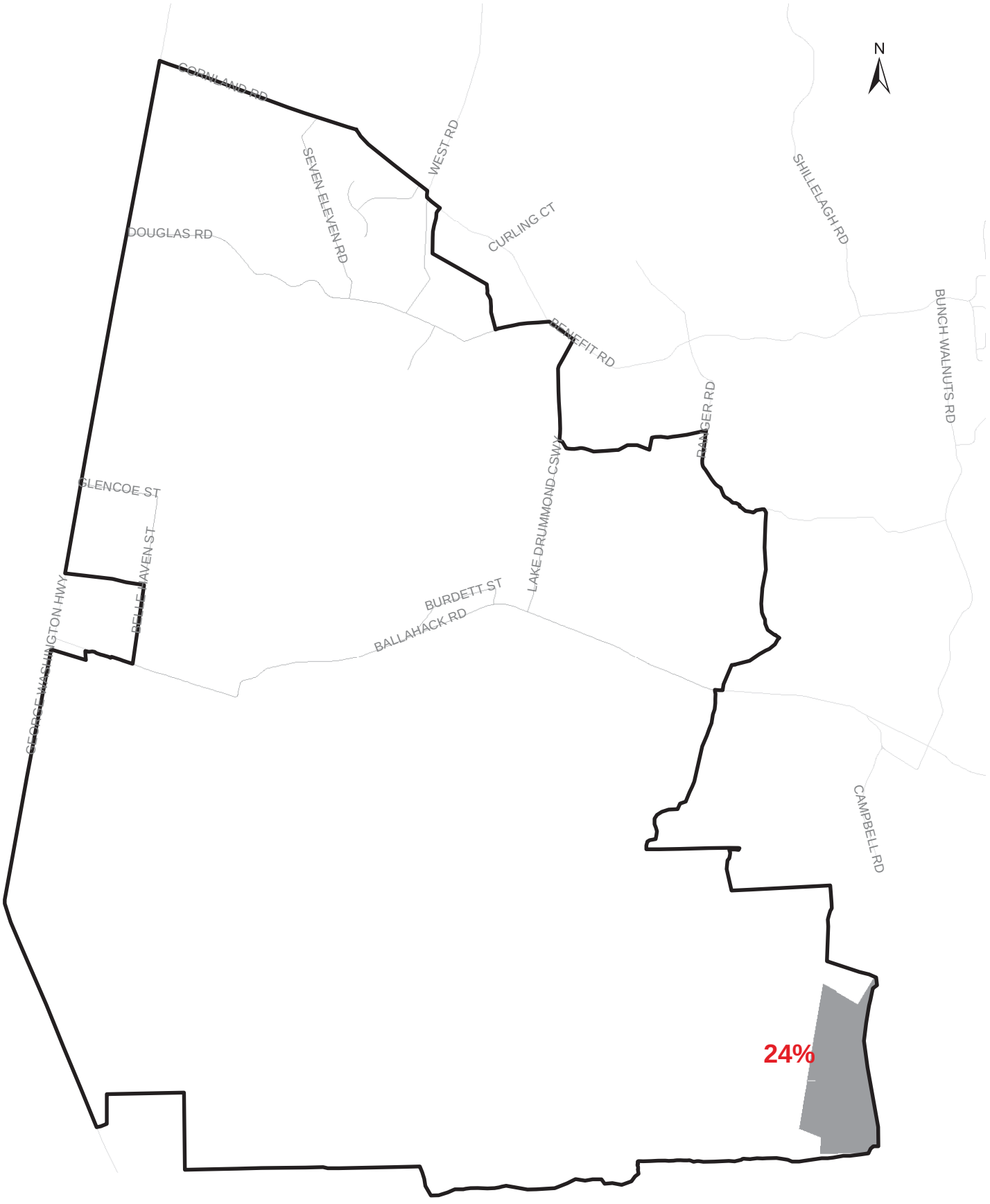
See GIS for Complete Details

Figure 3. Existing Conditions Subcatchments with Shaded Imperviousness



See GIS for Complete Details

Figure 4. Future Conditions Subcatchments with Shaded Imperviousness



See GIS for Complete Details

Figure 5. Potential Increase In Imperviousness

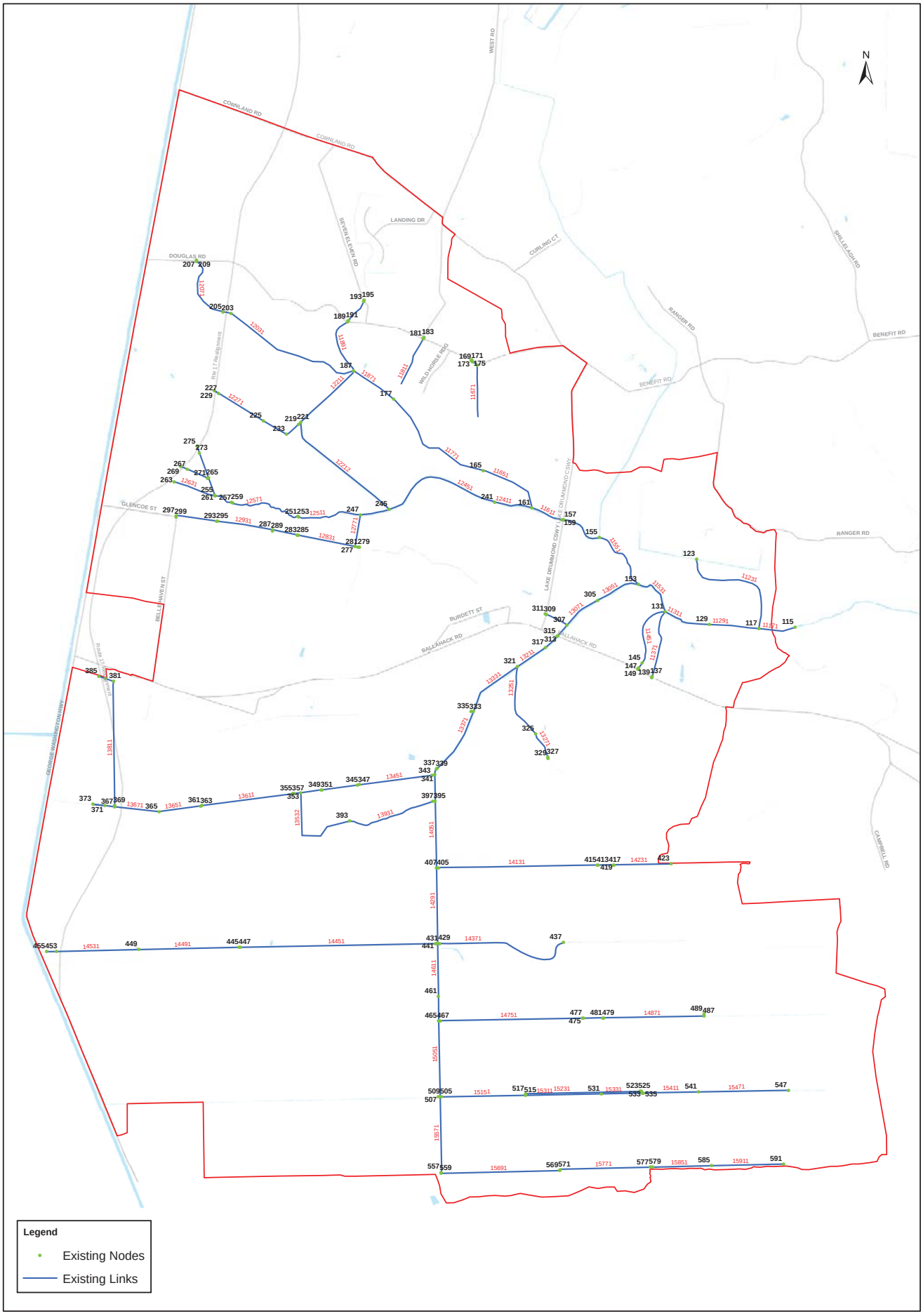
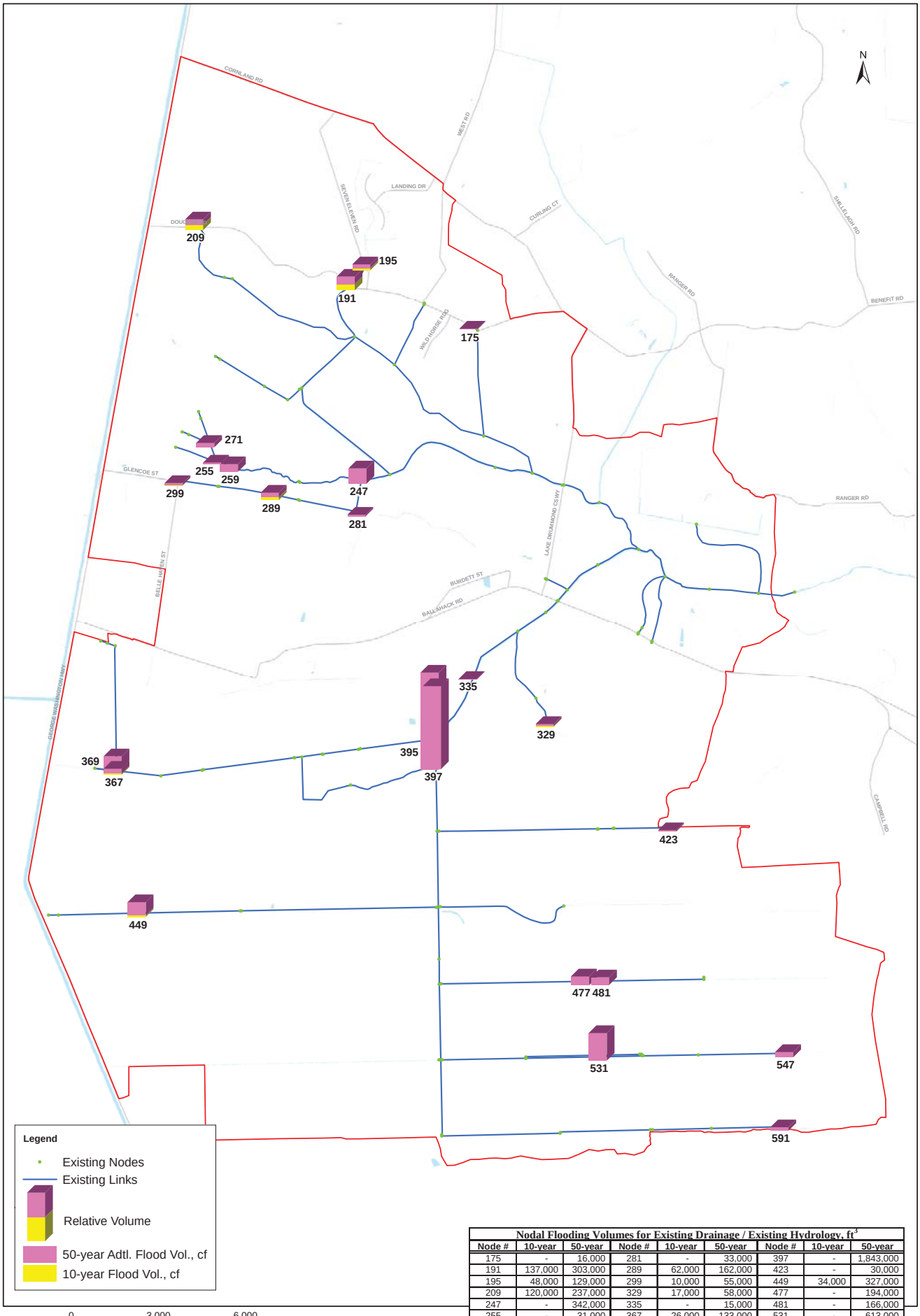


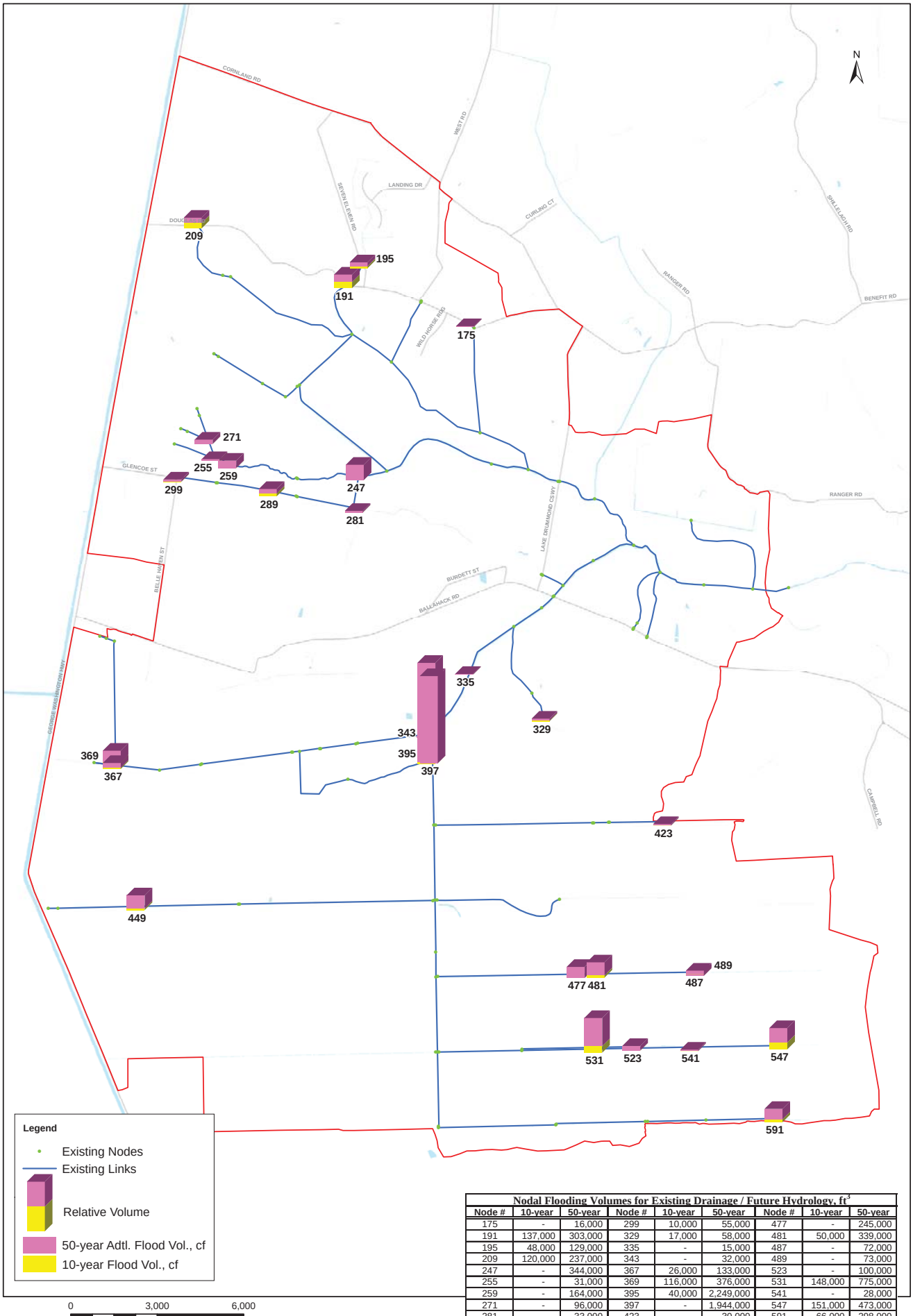
Figure 6. Link-Node Diagram - Existing Conditions



Nodal Flooding Volumes for Existing Drainage / Existing Hydrology, ft³

Node #	10-year	50-year	Node #	10-year	50-year	Node #	10-year	50-year
175	-	16,000	281	-	33,000	397	-	1,843,000
191	137,000	303,000	289	62,000	162,000	423	-	30,000
195	48,000	129,000	299	10,000	55,000	449	34,000	327,000
209	120,000	237,000	329	17,000	58,000	477	-	194,000
247	-	342,000	335	-	15,000	481	-	166,000
255	-	31,000	367	26,000	133,000	531	-	613,000
259	-	164,000	369	116,000	376,000	547	-	113,000
271	-	96,000	395	-	2,154,000	591	-	75,000

Figure 7. Flooding for 10-Yr and 50-Yr Storms: Existing Hydrology, Existing Drainage (Scenario 1)



Nodal Flooding Volumes for Existing Drainage / Future Hydrology, ft³								
Node #	10-year	50-year	Node #	10-year	50-year	Node #	10-year	50-year
175	-	16,000	299	10,000	55,000	477	-	245,000
191	137,000	303,000	329	17,000	58,000	481	50,000	339,000
195	48,000	129,000	335	-	15,000	487	-	72,000
209	120,000	237,000	343	-	32,000	489	-	73,000
247	-	344,000	367	26,000	133,000	523	-	100,000
255	-	31,000	369	116,000	376,000	531	148,000	775,000
259	-	164,000	395	40,000	2,249,000	541	-	28,000
271	-	96,000	397	-	1,944,000	547	151,000	473,000
281	-	33,000	423	-	30,000	591	66,000	298,000
289	62,000	162,000	449	34,000	328,000			

Figure 8. Flooding for 10-Yr and 50-Yr Storms: Future Hydrology, Existing Drainage (Scenario 2)