Table C-1. SWMM 4 to 5 Conversion Differences (50-Yr Scenario 3 Results with No Data Changes)
Cooper's Ditch MDPU

This table depicts "apples-to-apples" differences between the (original) SWMM Version 4 and (converted) Version 5 models.
In order to prevent clutter, only the 50-year Scenario 3 results are shown.
The final models delivered with this Techncial Memorandum incorporate changes as documented in the memorandum.

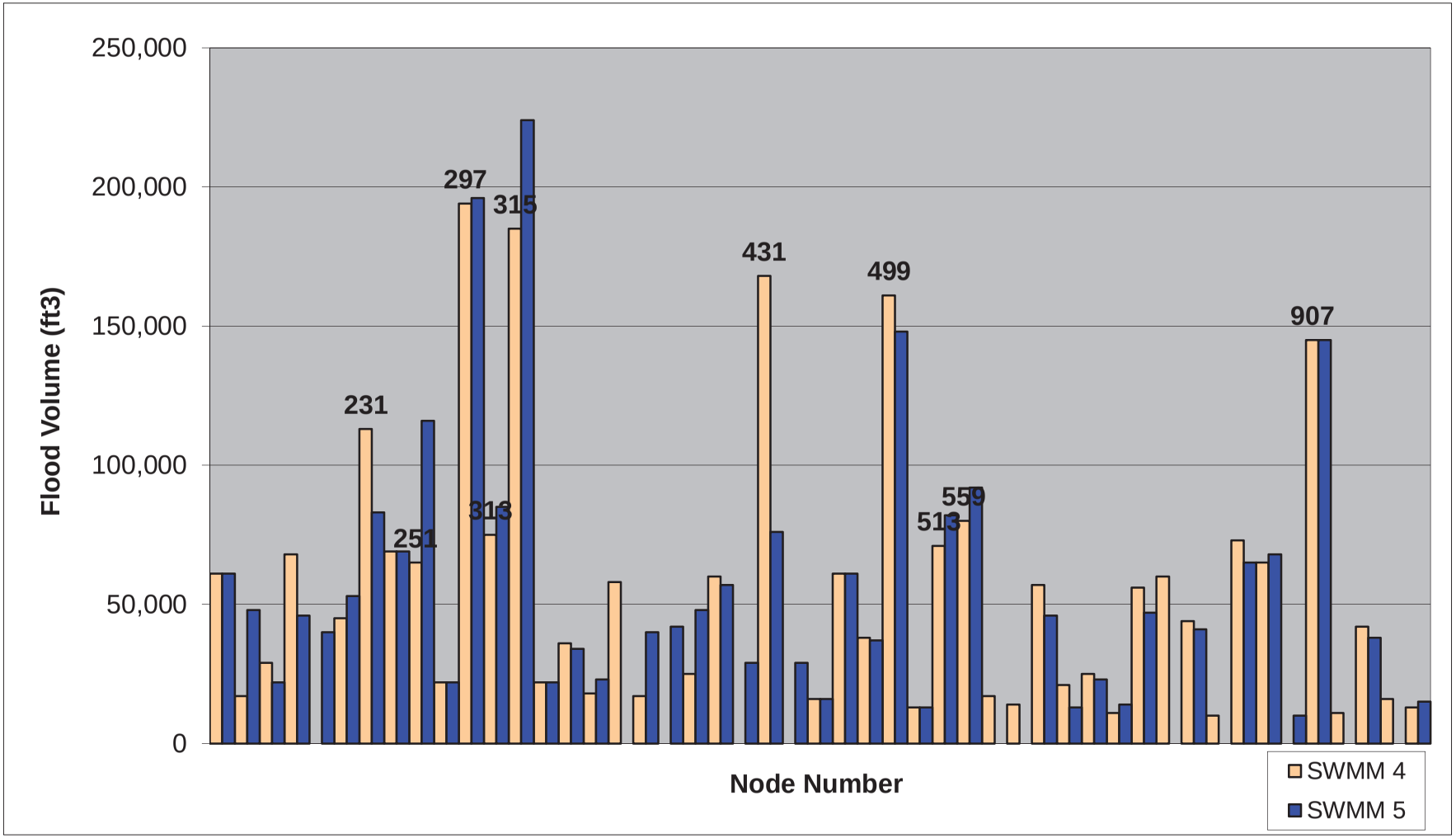
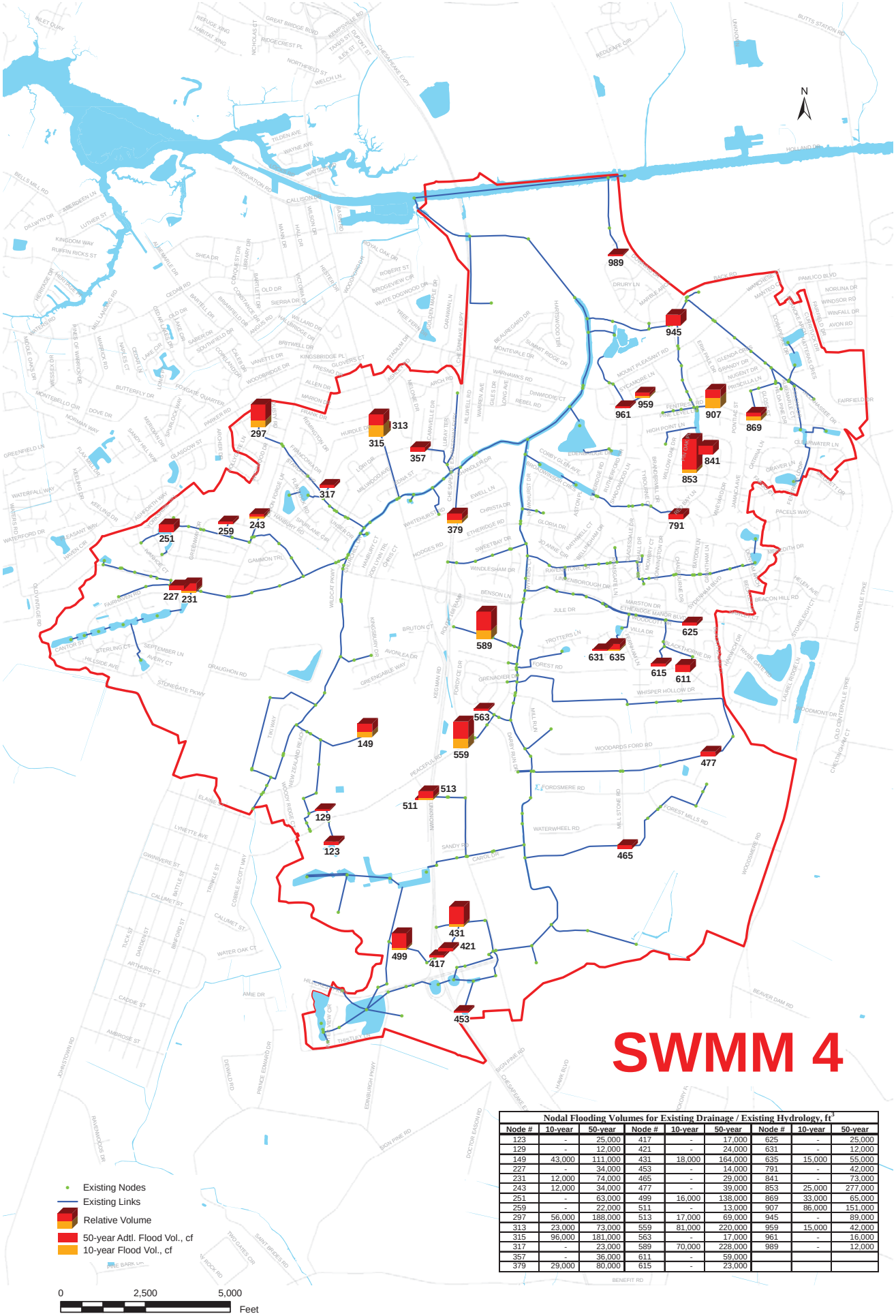


Table C-1. SWMM 4 to 5 Conversion Differences (50-Yr Scenario 3 Results with No Data Changes)
Cooper's Ditch MDPU

Node Number	SWMM 4 50-year Nodal Flood Volume (ft3)	SWMM 5 50-year Nodal Flood Volume (ft3)	Agreement SWMM 4 to 5 (percent)	Explanation
123	61,000	61,000	100%	
129	17,000	48,000	282%	Results of select ponding area (Flood volume varies to ponding area)
151	29,000	22,000	76%	
169	68,000	46,000	68%	
171		40,000		
227	45,000	53,000	118%	
231	113,000	83,000	73%	Results of select ponding area (Flood volume varies to ponding area)
243	69,000	69,000	100%	
251	65,000	116,000	178%	Results of select ponding area (Flood volume varies to ponding area)
259	22,000	22,000	100%	
297	194,000	196,000	101%	
313	75,000	85,000	113%	
315	185,000	224,000	121%	
317	22,000	22,000	100%	
357	36,000	34,000	94%	
367	18,000	23,000	128%	
379	58,000			
417	17,000	40,000	235%	Results of select ponding area (Flood volume varies to ponding area)
419		42,000		Computational differences in SWMM engines
421	25,000	48,000	192%	
425	60,000	57,000	95%	
427		29,000		
431	168,000	76,000	45%	Results of select ponding area (Flood volume varies to ponding area)
437		29,000		
453	16,000	16,000	100%	

Table C-1. SWMM 4 to 5 Conversion Differences (50-Yr Scenario 3 Results with No Data Changes)
Cooper's Ditch MDPU

Node Number	SWMM 4 50-year Nodal Flood Volume (ft3)	SWMM 5 50-year Nodal Flood Volume (ft3)	Agreement SWMM 4 to 5 (percent)	Explanation
465	61,000	61,000	100%	
477	38,000	37,000	97%	
499	161,000	148,000	92%	
511	13,000	13,000	100%	
513	71,000	82,000	115%	
559	80,000	92,000	115%	
561	17,000			Computational differences in SWMM engines
563	14,000			Computational differences in SWMM engines
611	57,000	46,000	81%	
615	21,000	13,000	62%	
625	25,000	23,000	92%	
631	11,000	14,000	127%	
635	56,000	47,000	84%	
755	60,000			Computational differences in SWMM engines
791	44,000	41,000	93%	
841	10,000			
853	73,000	65,000	89%	
869	65,000	68,000	105%	
873		10,000		
907	145,000	145,000	100%	
947	11,000			
959	42,000	38,000	90%	
961	16,000			
989	13,000	15,000	115%	
			% Agreement	
Total Volume (ft3):	**2,467,000**	**2,439,000**	**98.9%**	



Nodal Flooding Volumes for Existing Drainage / Existing Hydrology, ft³

Node #	10-year	50-year	Node #	10-year	50-year	Node #	10-year	50-year
123	-	25,000	417	-	17,000	625	-	25,000
129	-	12,000	421	-	24,000	631	-	12,000
149	43,000	111,000	431	18,000	164,000	635	15,000	55,000
227	-	34,000	453	-	14,000	791	-	42,000
231	12,000	74,000	465	-	29,000	841	-	73,000
243	12,000	34,000	477	-	39,000	853	25,000	277,000
251	-	63,000	499	16,000	138,000	869	33,000	65,000
259	-	22,000	511	-	13,000	907	86,000	151,000
297	56,000	188,000	513	17,000	69,000	945	-	89,000
313	23,000	73,000	559	81,000	220,000	959	15,000	42,000
315	96,000	181,000	563	-	17,000	961	-	16,000
317	-	23,000	589	70,000	228,000	989	-	12,000
357	-	36,000	611	-	59,000			
379	29,000	80,000	615	-	23,000			

Figure C-1. Flooding for 10-Yr and 50-Yr Storms: Existing Hydrology, Existing Drainage (Scenario 1) - SWMM 4