

Upstream\_calculation\_only.mbx uses 3 input files identified when running mbx: sample points, streams (polyline), & catchment (polygon).

Sample point table: must have fields- snappt130n (I) filled with unique ID values & WSCODE (I) unique catchment ID that is the same value as snappt130n

UNIQUE_ID	snapp130n	WScode	BASIN	STREAM	RIVER	RM	LOCATION	URBAN_AREA	WATERSHED	DRNAREA
020780040	20,780,040	20,780,040	02	078	Walnut Creek	0.4	0.3 m	Columbus	Walnut Creek	286
020780110	20,780,110	20,780,110	02	078	Walnut Creek	1.1	dst.	Columbus	Walnut Creek	285
020780120	20,780,120	20,780,120	02	078	Walnut Creek	1.2	Littl	Columbus	Walnut Creek	285

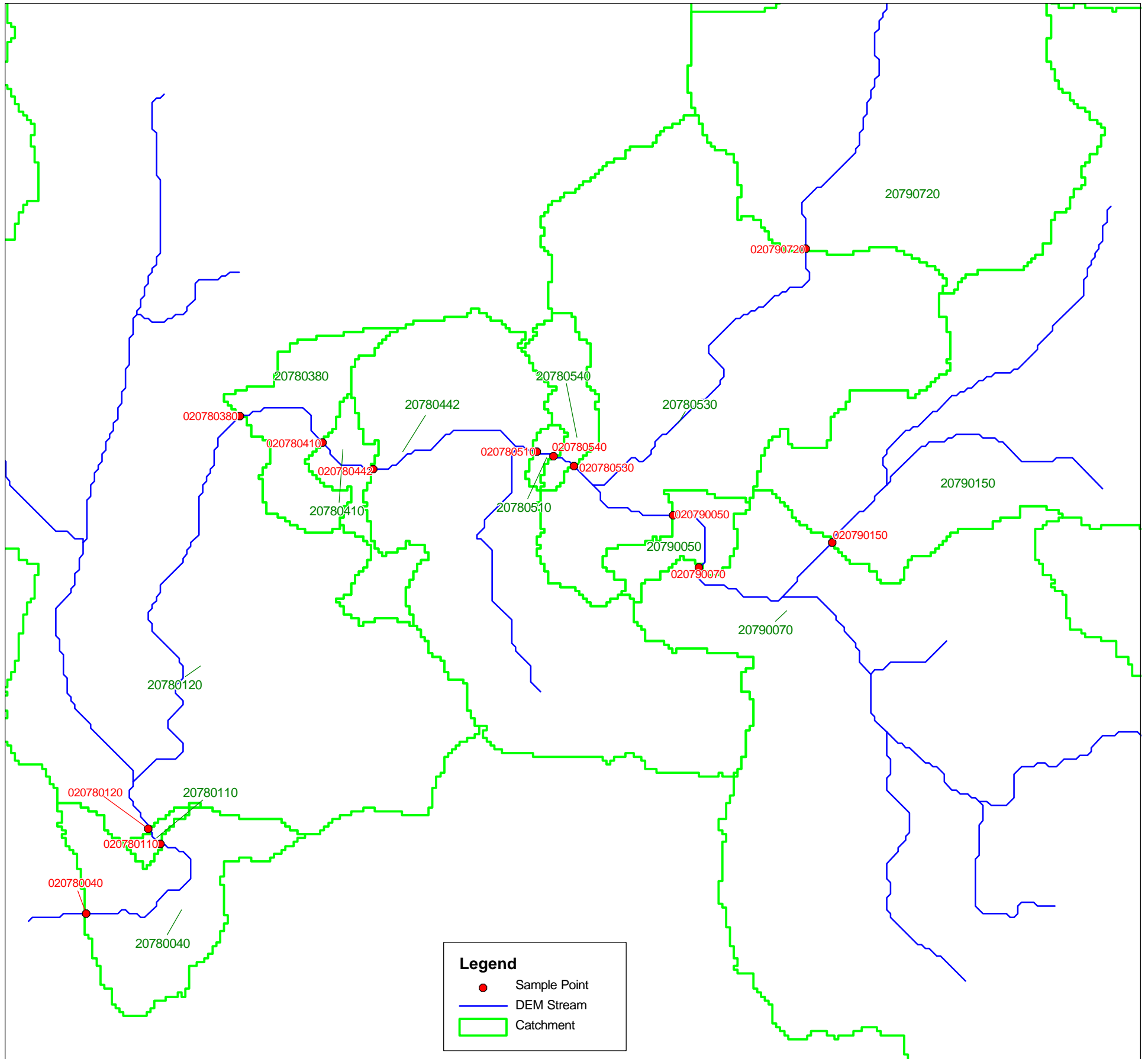
Point file must be snapped to stream.  
No fields named UPSTREAM or UPDIST can exist in the input pt file

cov130_	FROM_NOI	TO_NODE	SHAPE_LEN	HYDROID	NEXTDOWNII
8,267	8,312	8,425	1,693.19	8,267	8,459
8,274	8,398	8,425	971.142	8,274	8,459

Stream file must have field cov130\_ (I) filled with unique ID values  
Stream must be polyline. If line, use objects > convert to polyline  
Stream file does not change before or after running the .mbx.

ID	WScode
20,780,040	20,780,040
20,780,110	20,780,110
20,780,120	20,780,120
20,780,380	20,780,380

Catchment file must have fields WSCODE (I) & ID (I). Use table> column update - spatial within to populate with same value as field snappt130n of the sample point file before running the .mbx.



Output: sample: file with 2 new fields  
UPSTREAM- Downstream point id value  
UPDIST- Downstream length in meters along stream between points

Output: aggregatedshed: file with 3 new fields  
UPSAMPLE- Downstream point id value  
UPDIST- Downstream length in meters along stream between points  
UPSHED- Downstream catchment (WSCODE)

UNIQUE_ID	snapp130n	WScode	UPSTREAM	UPDIST
020780040	20,780,040	20,780,040	0	0
020780110	20,780,110	20,780,110	20,780,040	1,298.6
020780120	20,780,120	20,780,120	20,780,110	142.819
020780380	20,780,380	20,780,380	20,780,120	3,707.65
020780410	20,780,410	20,780,410	20,780,380	773.829
020780442	20,780,442	20,780,442	20,780,410	450.633
020780510	20,780,510	20,780,510	20,780,442	1,322.59
020780530	20,780,530	20,780,530	20,780,540	175.036
020780540	20,780,540	20,780,540	20,780,510	130.311
020790050	20,790,050	20,790,050	20,780,530	871.85
020790070	20,790,070	20,790,070	20,790,050	585.634
020790150	20,790,150	20,790,150	20,790,070	1,279.71
020790720	20,790,720	20,790,720	20,780,530	2,895.84

0 = outlet

ID	WScode	sample_id	UPSAMPLE	UPDIST	UPSHED
20,780,040	20,780,040	20780040	0	0	0
20,780,110	20,780,110	20780110	20,780,040	1,298.6	20,780,040
20,780,120	20,780,120	20780120	20,780,110	142.819	20,780,110
20,780,380	20,780,380	20780380	20,780,120	3,707.65	20,780,120
20,780,410	20,780,410	20780410	20,780,380	773.829	20,780,380
20,780,442	20,780,442	20780442	20,780,410	450.633	20,780,410
20,780,510	20,780,510	20780510	20,780,442	1,322.59	20,780,442
20,780,530	20,780,530	20780530	20,780,540	175.036	20,780,540
20,780,540	20,780,540	20780540	20,780,510	130.311	20,780,510
20,790,050	20,790,050	20790050	20,780,530	871.85	20,780,530
20,790,070	20,790,070	20790070	20,790,050	585.634	20,790,050
20,790,150	20,790,150	20790150	20,790,070	1,279.71	20,790,070
20,790,720	20,790,720	20790720	20,780,530	2,895.84	20,780,530

0 = outlet