Locational Uncertainty and Conceptual Feature Types Key

DEFINITIONS: Pre-SF = Pre-Source Feature = spatial feature initially mapped or digitized into Biotics. LU=Locational Uncertainty; LUT=Locational Uncertainty Type; CFT=Conceptual Feature Type.

1. LU of pre-SF <u>and</u> original observation ≤ 4.5 m in <u>all</u> directionsLUT=Negligible					
2. Original observation was a single specimen or a group extending ≤ 9 m in <u>all</u> directionsCFT=Point					
2' Original observation was a group of individuals extending > 9 m in at least one direction.					
3. Group inhabited a precisely located linear feature ≤ 9 m wide and > 9 meters longCFT=Line					
3' Group not limited to a defined linear feature, and/or inhabited > 9x9 meters CFT=Polygon					
1' LU of pre-SF and/or original observation > 4.5 m in at least one direction.					
4. LU of <u>original observation</u> > 4.5 m along a precisely located linear feature, <u>and</u> ≤ 4.5 m on each side of that feature (pre-SF <u>must be a line</u> that <u>includes</u> all LU <u>along</u> the feature)LUT=Linear					
5. Original observation was a single specimen or a group extending ≤ 9 m in <u>all</u> directionsCFT=Point					
5' Original observation was a group of individuals extending > 9 m along the linear featureCFT=Line					
4' LU of <u>original observation</u> > 4.5 m in <u>all</u> directions.					
6. Pre-SF is a <u>polygon</u> that <u>includes all LU</u> associated with the original observation(s) (additionally consider defining Unsuitable Habitat Feature(s) in Biotics)LUT=Delimited					
7. Original observation was a single specimen or a group extending ≤ 9 m in <u>all</u> directionsCFT=Point					
7' Original observation was a group of individuals extending > 9 m in at least one direction.					
8. Group inhabited a linear feature ≤ 9 m wide and > 9 meters longCFT=Line					
8' Group not limited to a defined linear feature, and/or inhabited > 9x9 meters CFT=Polygon					
6' Pre-SF is a point, line, or polygon that <u>does not</u> include all LU associated with the original observation(s).					
 LU varies significantly in different directions. 					
9' LU roughly the same in <u>all</u> directions (use largest estimate)					
10. Original observation was a single specimen or a group ≤ 9 m across in <u>all</u> directionsCFT=Point					
10' Original observation was a group of individuals > 9 m across in at least one direction.					
11. Group inhabited a linear feature ≤ 9 m wide and > 9 meters longCFT=Line					
11' Group not limited to a defined linear feature, and/or inhabited > 9x9 meters CFT=Polygon					

Locational Uncertainty Type

	Negligible (Precise Mapping)	Linear (Uncertain along a line)	Delimited (Uncertain in a defined area)	Estimated (Uncertain in all directions, buffer added by Biotics)
Conceptual Feature	Very accurate location of an individual or small group, less than 4.5 meters gps position uncertainty.	A single individual of small group located along a narrow linear feature.	An individual or small group located in a defined area.	An individual or small group that is probably within a certain distance of a given point or landmark.
Туре	Examples: high precision gps point of a nest, burrow, or small cluster of plants.	Examples: a fish found in a creek between two landmarks, a plant collected along a road shoulder between two mile markers (or a buffered length (8 miles from town -> 7.5 to 8.5 miles from town.)	Examples: a museum or herbarium specimen located in a PLSS section, a fish in a lake, a plant in a visually distinct habitat such as white soil outcrops.	Example: gps point with more than 4.5 m positional uncertainty, old museum records "near Chicken Spring" or " half a mile from Wilson Ranch" or "Tonopah", a dot on a topo map.
Point (Single organism or small group less than 9 m long or wide)		Point B Point A	Section 23	
	A group of organisms found along a linear feature, less than 4.5 m uncertainty at start and end point.	A group of organisms found along a linear feature, more than 4.5 m uncertainty at start and end point.	A group of organisms found along a linear feature, but there is uncertainty about the location of that feature within a defined area.	A group of organisms in a linear feature but there is uncertainty about the location of that feature without a defined area.
Line	Examples: springsnails in small creek from source to pond, species found along entire length of a precisely mapped transect.	Examples: group of fish found in creek between two landmarks, plants found along 300 feet of road shoulder but start and endpoint uncertain.	Examples: transect in a meadow, lake shoreline that changes year to year, one of several unnamed creeks in a PLSS section.	Examples: animals collected along an unmapped trail, plants seen along gps track with more than 4.5 m positional uncertainty.
(Group of organisms less than 9 m wide, more than 9 m long)	Occupied full length	Point B Point A	Section 23	
	A group of organisms found in an area, less than 4.5 m uncertainty around the perimeter.		A group of organisms but there is uncertainty about the location of that group within a defined area.	A group of organisms but there is uncertainty about the location of that group without a defined boundary.
Polygon	Examples: precise gps track around the edge of a group of plants, precise mapping of a small pond where the target species occupies the entire pond.	Not allowed, by definition, a polygon cannot fit inside a line.	Examples: an acre of plants in a PLSS section, a large group of birds nesting somewhere in a marsh, gps points buffered more than 4.5 m and merged into polygons before creating source feature.	Examples: a gis or gps polygon or group of unbuffered points with positional uncertainty more than 4.5 m, a hand drawn polygon from a topo map.
(Group of organisms more than 9 m wide and long)			Section 23	