NHN Completeness Levels Main Characteristics
(Applicable per NHN Work Unit)

Subject	CL1 Hydro Network	CL2 Waterbody Definition	CL3 Data Continuity	CL4 Toponymy Upgrade	*Notes
Network Linear Flows (NLF)	**Network Linear Flows must be present***	*Network Linear Flows* must be present*	***Primary Network Linear Flows* must be complete***	*Primary Network Linear Flows* must be complete*	*Some *Network Linear Flows* may be missing*
	The *Level Priority* attribute value may be *Unknown*	The *Level Priority* attribute value may be *Unknown*	**The *Level Priority* attribute value may not be *Unknown***	The *Level Priority* attribute value imay not be *Unknown*	
	NLF continuity is not validated	*NLF* continuity is not validated	***NLF* continuity is validated**	*NLF* continuity is validated	
	The *Flow Direction* attribute value may be *Unknown*	The *Flow Direction* attribute value may be *Unknown*	**The *Flow Direction* attribute value for *Primary NLF and Observed Secondary NLF* may not be *Unknown****	The *Flow Direction* attribute value for *Primary NLF* and *Observed Secondary NLF* may not be *Unknown**	*The *Flow Direction* attribute value for *Infered Secondary NLF* and *Observed Secondary NLF* within *Waterbodies* is not validated
	NLF digitizing direction is not validated	*NLF* digitizing direction is not validated	***Primary NLF and Observed Secondary NLF* digitizing direction is validated***	*Primary NLF* and *Observed Secondary NLF* digitizing direction is validated*	*The digitizing direction for *Infered Secondary NLF* and *Observed Secondary NLF* within *Waterbodies* is not validated
Single Line Watercourses, Waterbodies* and *Banks	***Single Line Watercourses, Waterbodies* and *Banks* must be present**	*Single Line Watercourses, Waterbodies* and *Banks* must be present	*Single Line Watercourses, Waterbodies* and *Banks* must be present	*Single Line Watercourses, Waterbodies* and *Banks* must be present	
	The *Water Definition* attribute value may be *Unknown*	**The *Water Definition* attribute value may not be *Unknown****	The *Water Definition* attribute value may not be *Unknown**	The *Water Definition* attribute value may not be *Unknown**	*At the least the distinction between *Lakes, Watercourse* for *Waterbodies*
Littoral	*The Littoral* may not be present	***The Littoral* must be present**	*The Littoral* must be present	*The Littoral* must be present	
Manmade Hydrographic Entities	**Manmade Hydrographic Entities must be present***	Manmade Hydrographic Entities must be present*	Manmade Hydrographic Entities must be present*	Manmade Hydrographic Entities must be present*	*At the least *Dams* and *Dikes/Levees*
Islands	***Islands* must be present***	*Islands* must be present*	***Islands* must be present**	*Islands* must be present	*Some Islands may be missing (ex. along the Work Unit Limit)
	The *Coastal Island* attribute value may be *Unknown*	**The *Coastal Island* attribute value may not be *Unknown***	The *Coastal Island* attribute value may not be *Unknown*	The *Coastal Island* attribute value may not be *Unknown*	
Toponyms (geographical names)	Hydrographic phenomenon toponyms are present*	Hydrographic phenomenon toponyms are present*	Hydrographic phenomenon toponyms are present*	**Hydrographic phenomenon toponyms are present and up-to-date**	*Some toponyms may be missing
	Toponyms are present as attributs on hydrographic elements or on *Named Features*	Toponyms are present as attributs on hydrographic elements or on *Named Features*	**Toponyms are present as attributs on hydrographic elements when present or on *Named Features****	**Toponyms are up-to-date and present as attributs on hydrographic elements when present or on *Named Features****	*A *Named Feature* is present only if a correspondance with an hydrographic element was not possible
	The toponymic source may be a nonofficial source*	The toponymic source may be a nonofficial source*	The toponymic source may be a nonofficial source*	**The toponymic source must be official and up-to-date**	*Ex.: The National Topographic Data Base (NTDB)
	A *Named Feature's* geometry may not coincide with the extent of the corresponding toponymic phenomenon*	A *Named Feature*'s geometry may not coincide with the extent of the corresponding toponymic phenomenon*	A *Named Feature*'s geometry may not coincide with the extent of the corresponding toponymic phenomenon*	**A *Named Feature*'s geometry must coincide with the extent of the corresponding toponymic phenomenon***	*Ex.: A point type *Named Feature* naming an area type Bay
	Toponymic continuity is not validated on the hydro network	Toponymic continuity is not validated on the hydro network	**Toponymic continuity is validated on the hydro network**	**Toponymic continuity is validated and up-to-date on the hydro network**	
Events	***Manmade and Obstacle Events* generated from the geometric intersection of elements* must be present****	*Manmade* and *Obstacle Events* generated from the geometric intersection of elements* must be present**	*Manmade* and *Obstacle Events* generated from the geometric intersection of elements* must be present**	*Manmade* and *Obstacle Events* generated from the geometric intersection of elements* must be present**	*Intersection of a *Hydro Obstacle Entity* or a *Manmade Hydro Entity* and a network linear element **Projected events may also be present
	***Flow Property Events* must be present**	*Flow Property Events* must be present	*Flow Property Events* must be present	*Flow Property Events* must be present	
Delimiters* and *Hydro Junctions	*Delimiters* and *Hydro Junctions* corresponding to existing hydro elements must be present	*Delimiters* and *Hydro Junctions* corresponding to existing hydro elements must be present	*Delimiters* and *Hydro Junctions* corresponding to existing hydro elements must be present	*Delimiters* and *Hydro Junctions* corresponding to existing hydro elements must be present	
NHN Work Unit Limit	The coherence of hydrographic elements with the WU Limit is not validated	The coherence of hydrographic elements with the WU Limit is not validated	**The coherence of hydrographic elements with the WU Limit is validated**	The coherence of hydrographic elements with the WU Limit is validated	