

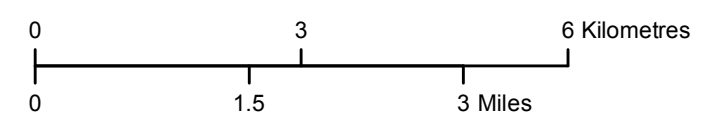
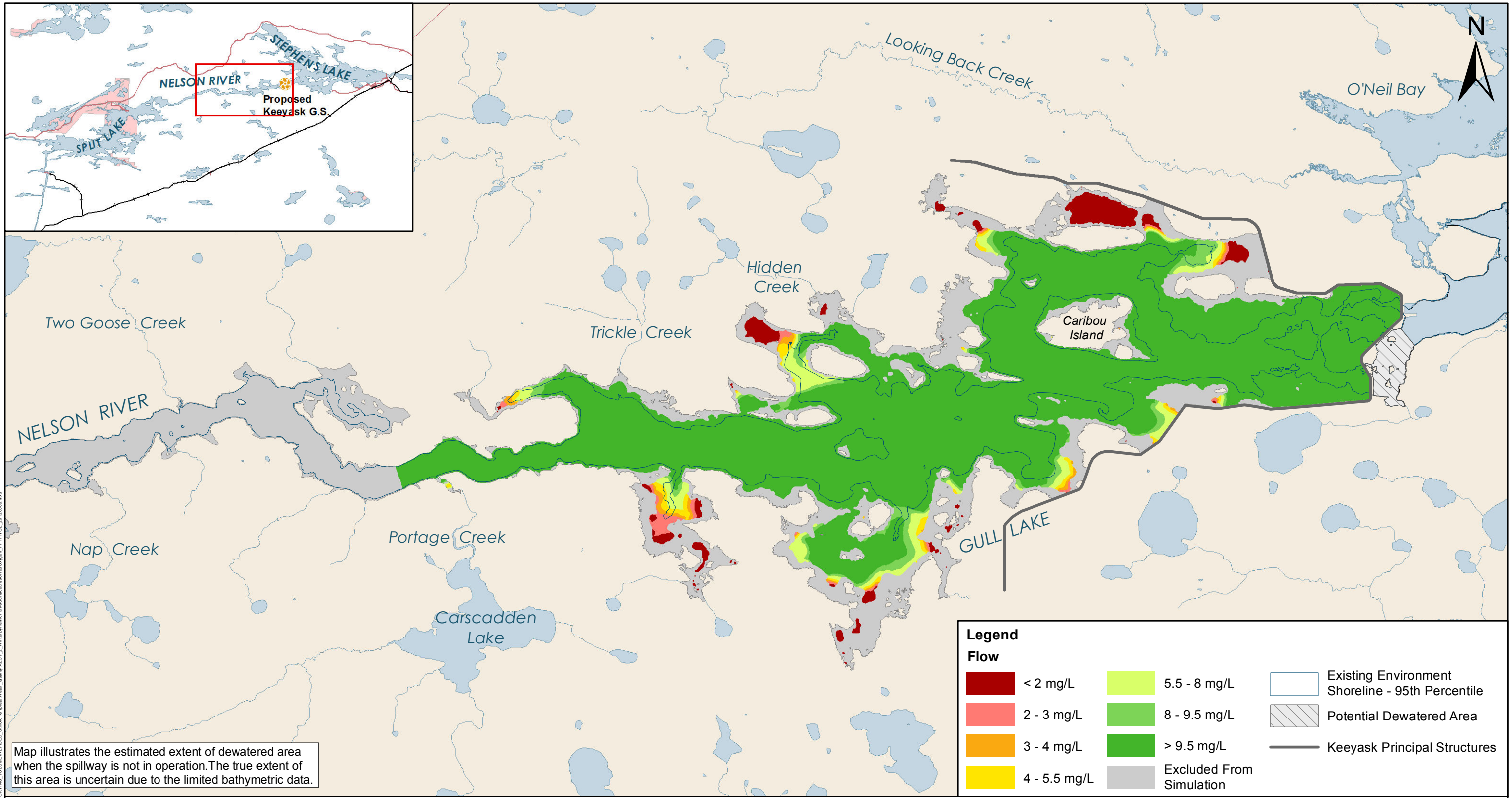


Keeyask Generation Project Environmental Impact Statement

Supporting Volume Aquatic Environment



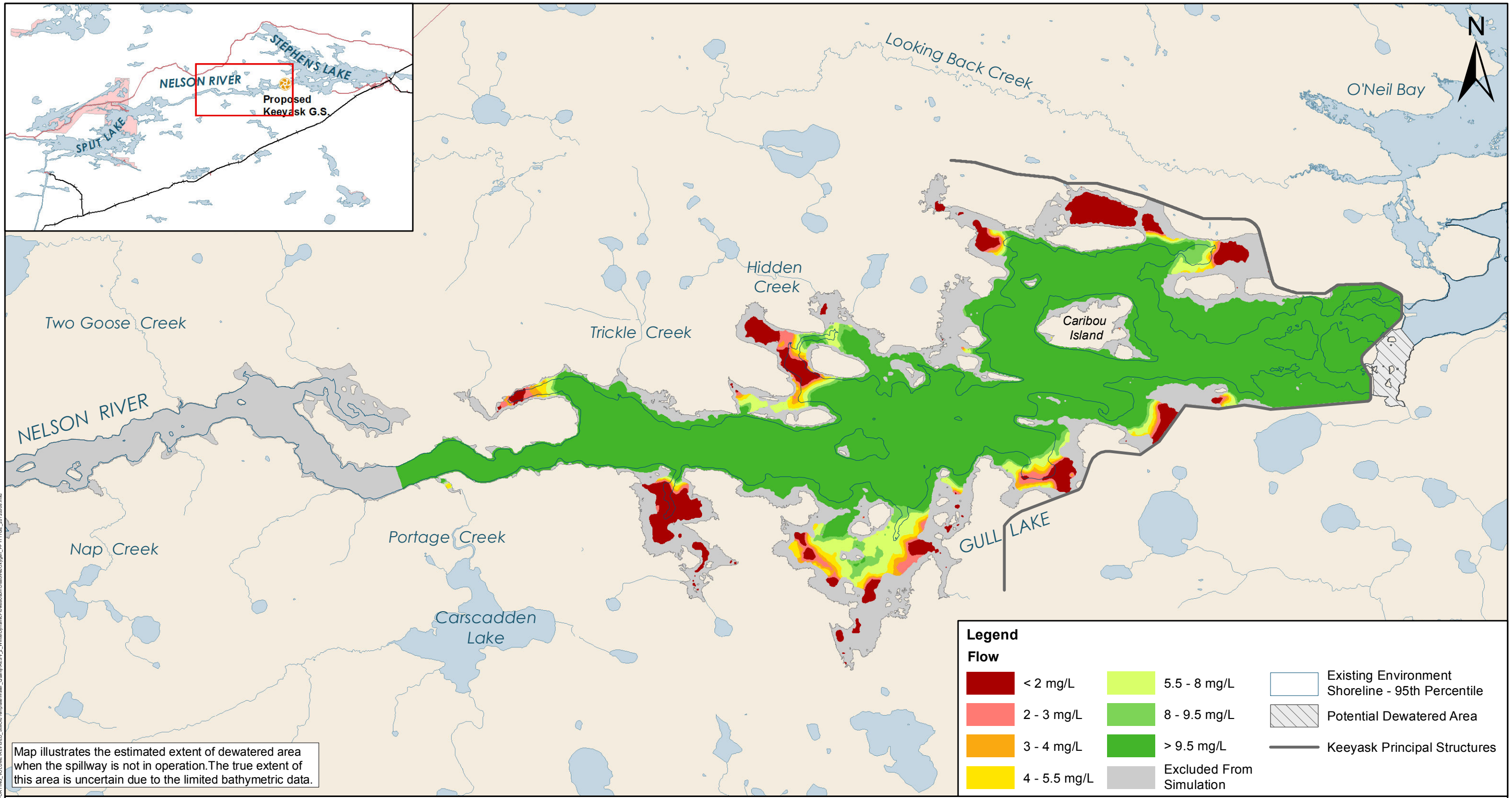
June 2012



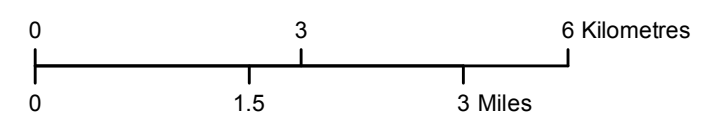
Projection: UTM Zone 15, NAD 83
 Data Source: NTS base 1:50 000
 Stephens Lake Shoreline - Quickbird@Digitalglobe, 2006
 Nelson River Shorelines modelled by Manitoba Hydro

Winter Dynamic Flows - Surface Dissolved Oxygen

Post-Project Peaking Mode - Year 1 - Time of Greatest Effect



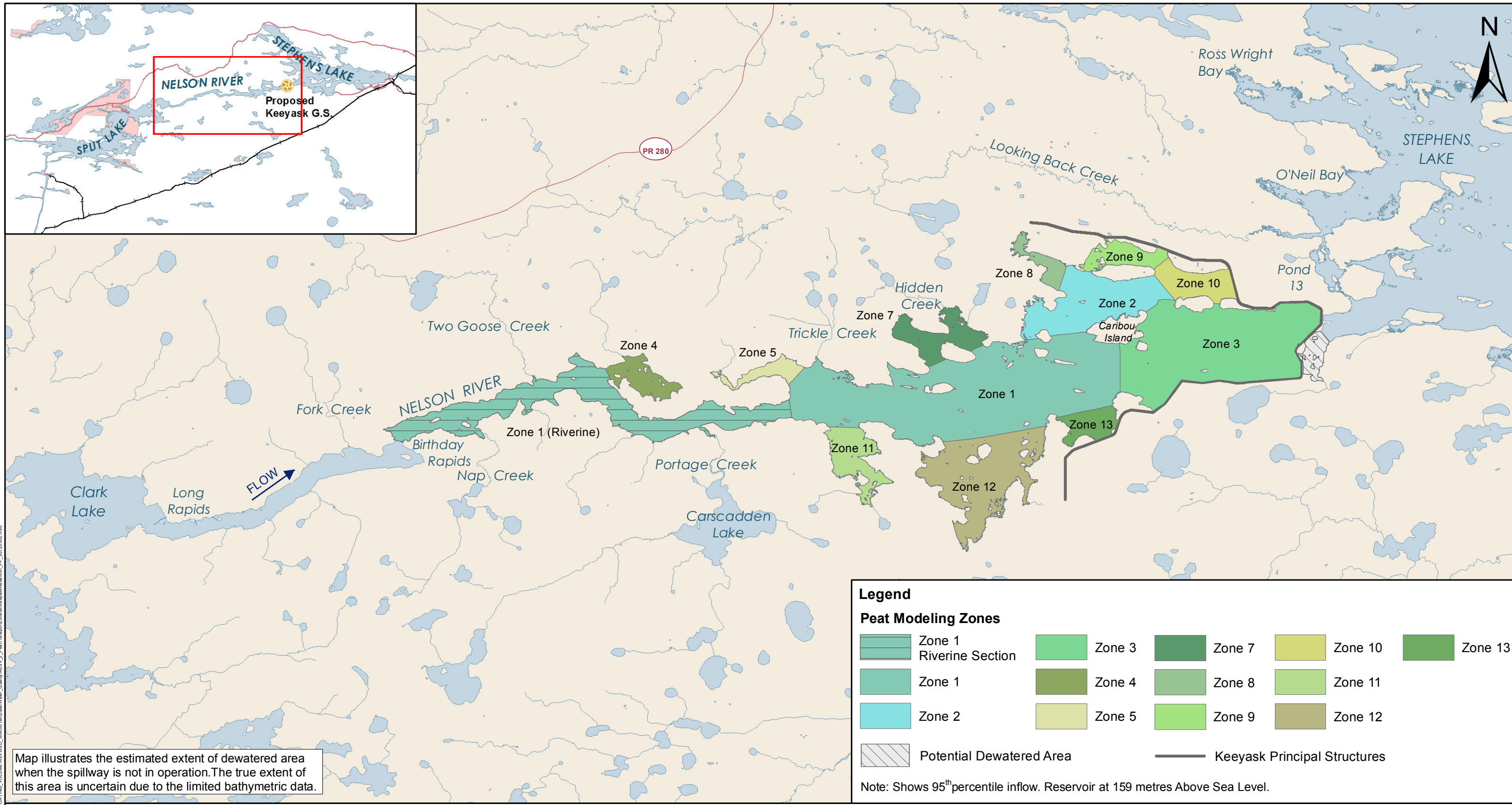
Map illustrates the estimated extent of dewatered area when the spillway is not in operation. The true extent of this area is uncertain due to the limited bathymetric data.



Projection: UTM Zone 15, NAD 83
 Data Source: NTS base 1:50 000
 Stephens Lake Shoreline - Quickbird@Digitalglobe, 2006
 Nelson River Shorelines modelled by Manitoba Hydro

Winter Dynamic Flows - Bottom Dissolved Oxygen

Post-Project Peaking Mode - Year 1 - Time of Greatest Effect



Map illustrates the estimated extent of dewatered area when the spillway is not in operation. The true extent of this area is uncertain due to the limited bathymetric data.

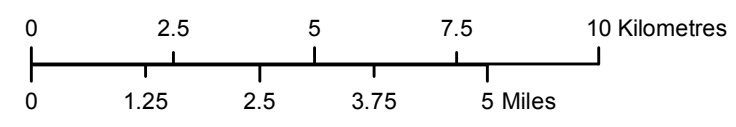
Legend

Peat Modeling Zones

	Zone 1 (Riverine Section)		Zone 3		Zone 7		Zone 10		Zone 13
	Zone 1		Zone 4		Zone 8		Zone 11		
	Zone 2		Zone 5		Zone 9		Zone 12		

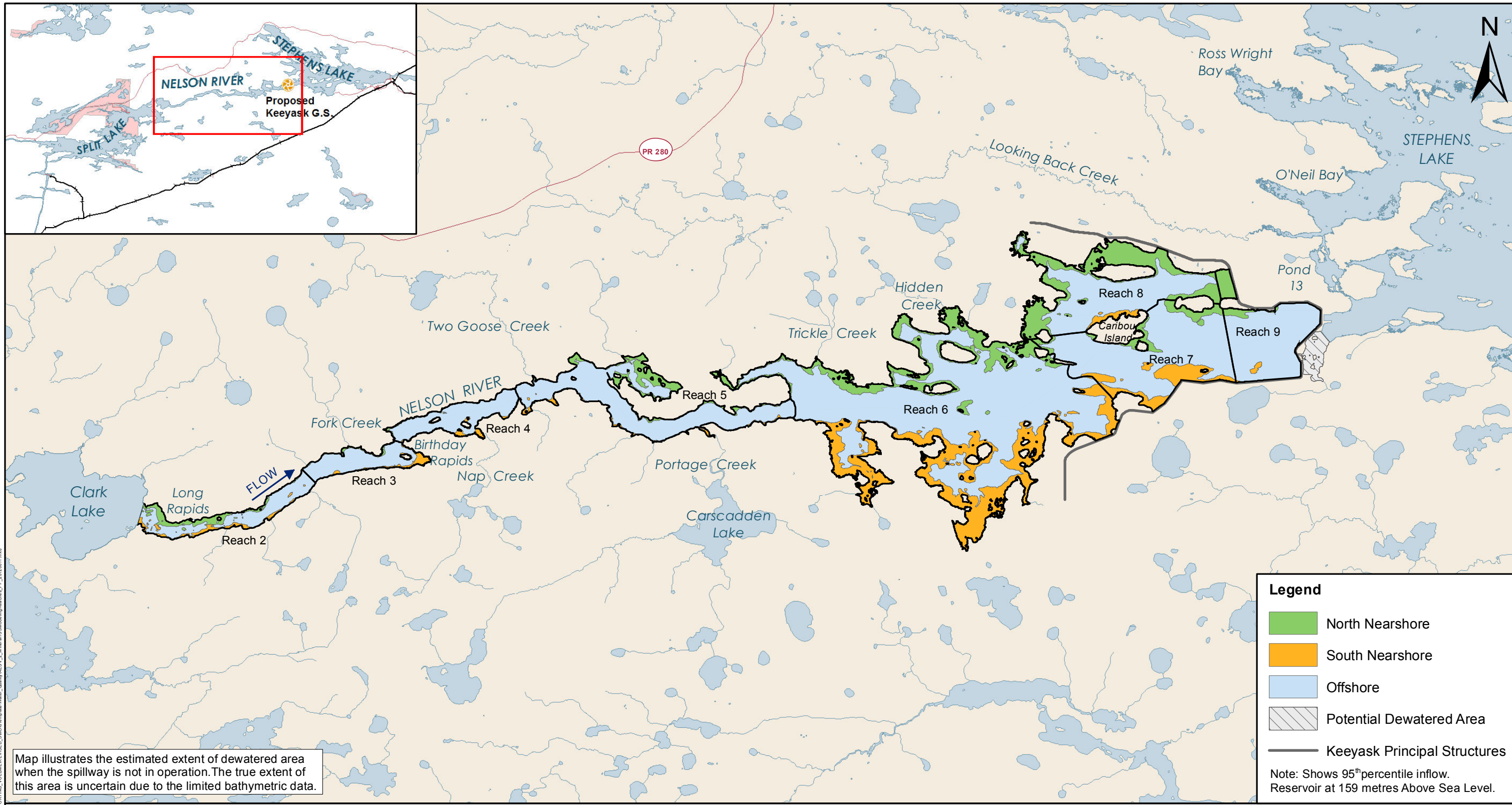
Potential Dewatered Area Keyask Principal Structures

Note: Shows 95th percentile inflow. Reservoir at 159 metres Above Sea Level.

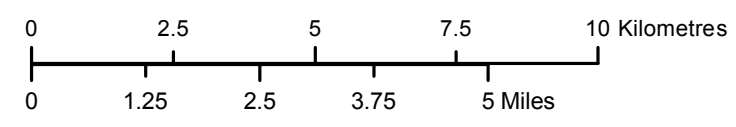


Projection: UTM Zone 15, NAD 83
 Data Source: NTS base 1:50 000
 Stephens Lake Shoreline - Quickbird@Digitalglobe, 2006
 Nelson River Shoreline modelled by Manitoba Hydro.
 Extents of dewatered area are estimated based on the existing environment 95th percentile inflow.

Peat Transport Zones in the Keeyask Reservoir Post-Project

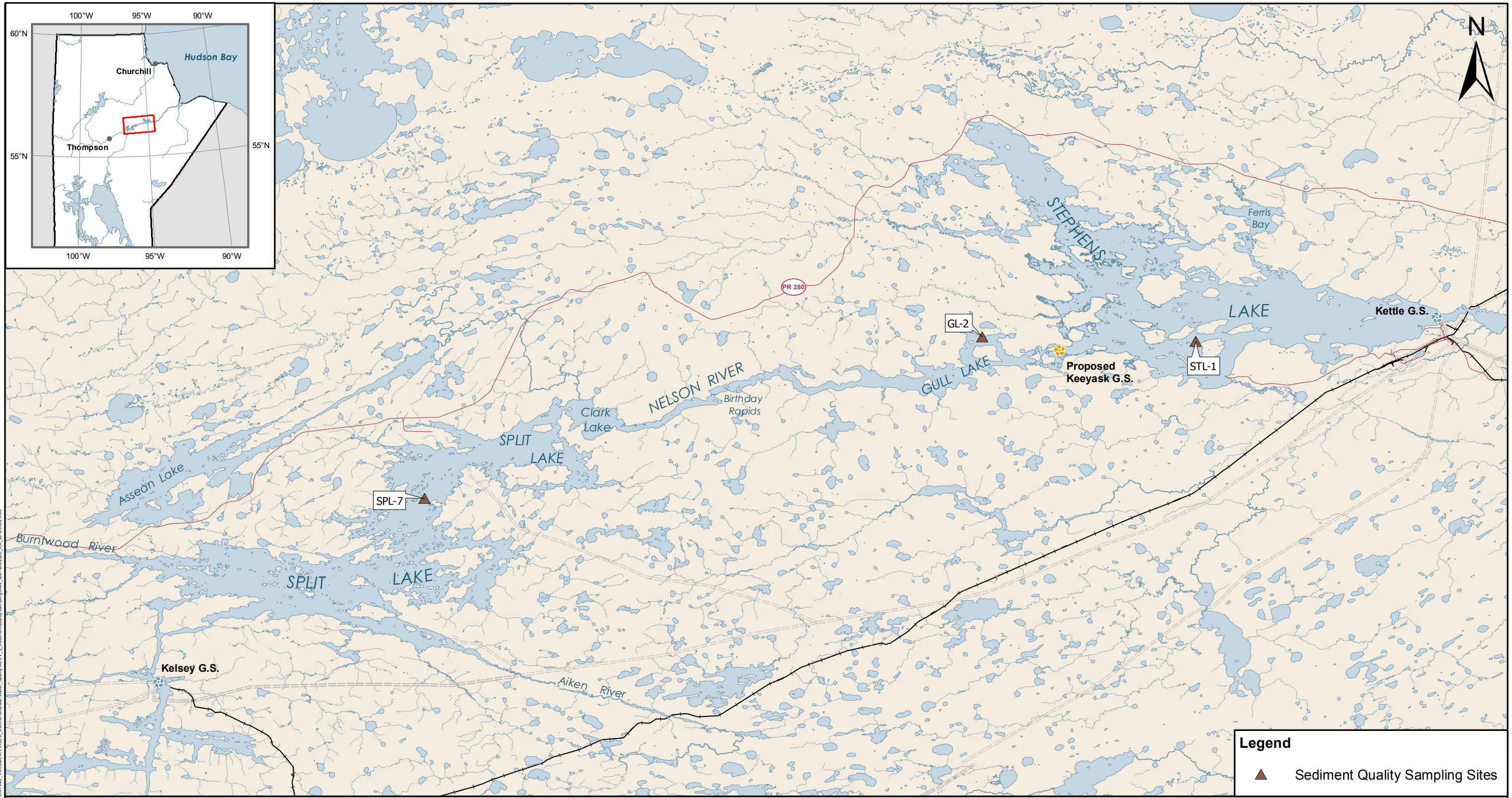


Map illustrates the estimated extent of dewatered area when the spillway is not in operation. The true extent of this area is uncertain due to the limited bathymetric data.

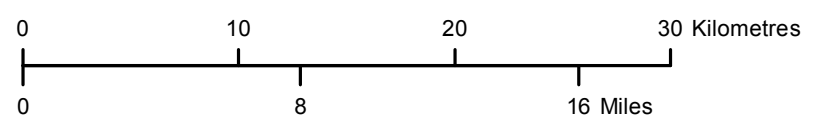


Projection: UTM Zone 15, NAD 83
 Data Source: NTS base 1:50 000
 Stephens Lake Shoreline - Quickbird@Digitalglobe, 2006
 Nelson River Shoreline modelled by Manitoba Hydro.
 Extents of dewatered area are estimated based on the existing environment 95th percentile inflow.

Mineral Total Suspended Solids Modelling Reaches Post-Project



File Location: G:\ES\Keeyask\Public\IM\GIS\SU\REPORTING_VOLUMEREVISED_SRD\Template\Water_Quality\MESV_2_SedimentQualitySamplingSites_201 and 2002_K.A. 20120502.mxd



Projection: UTM Zone 15, NAD 83
 Data Source: NTS base 1:50 000,
 Stephens Lake Shoreline-Quickbird@Digitalglobe, 2006
 Nelson River Shoreline modelled by Manitoba Hydro

Sediment Quality Sampling Sites 2001 and 2002

Legend

▲ Sediment Quality Sampling Sites