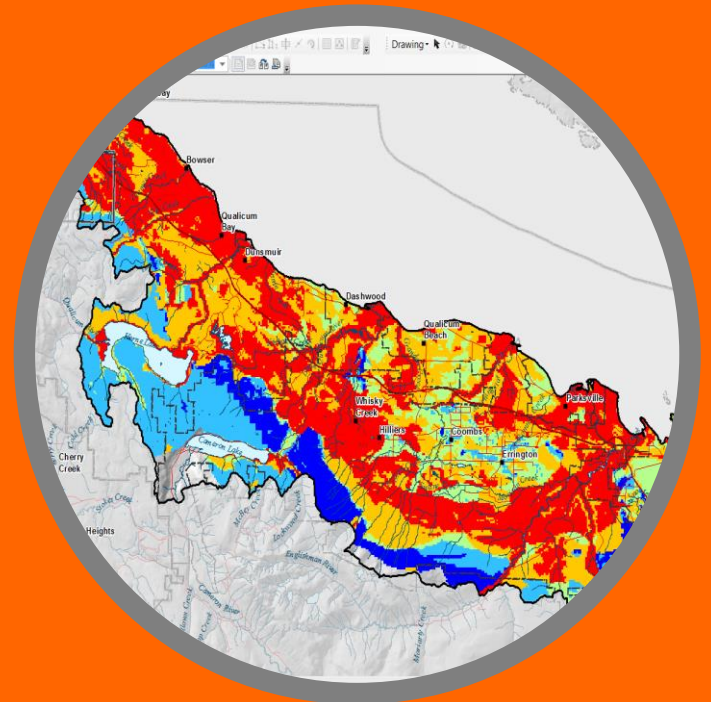


Geospatial data presentation

Yohann Tremblay

RQES

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Terms in **orange** are defined in the
Glossary of Terms Used in Geomatics



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Icons to facilitate reading the workbook

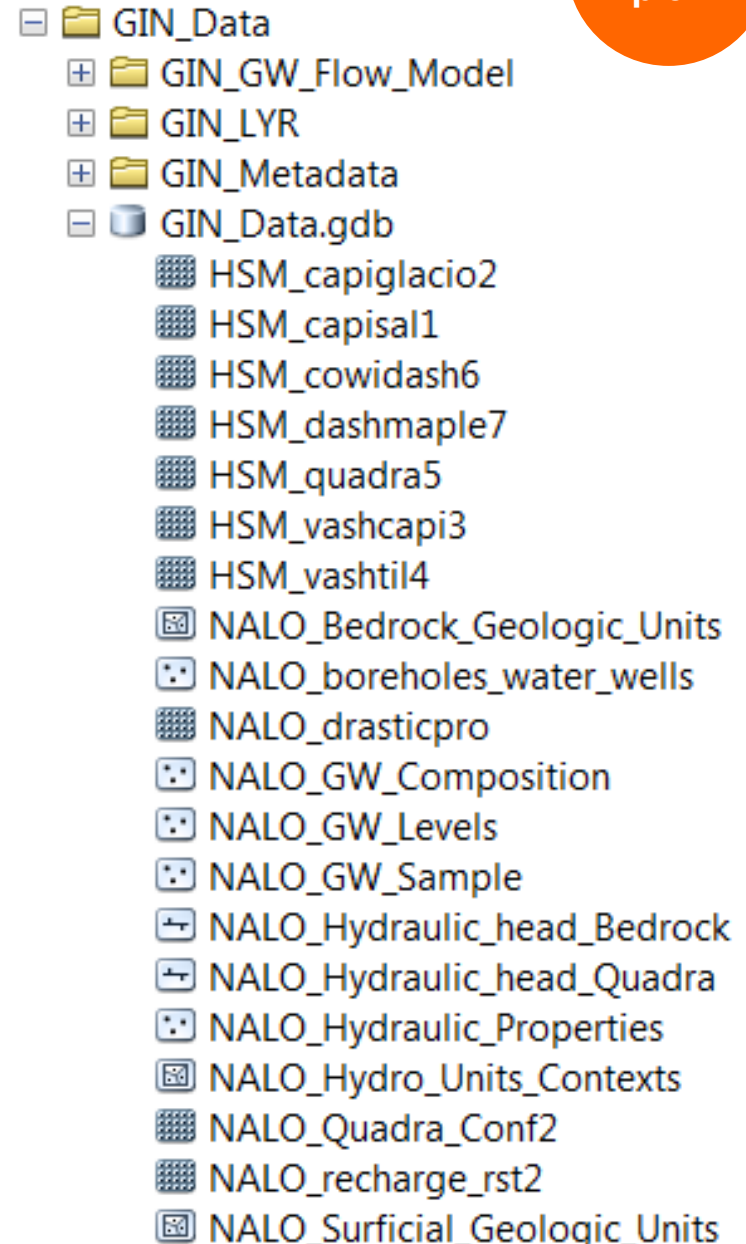


Icons to identify data formats



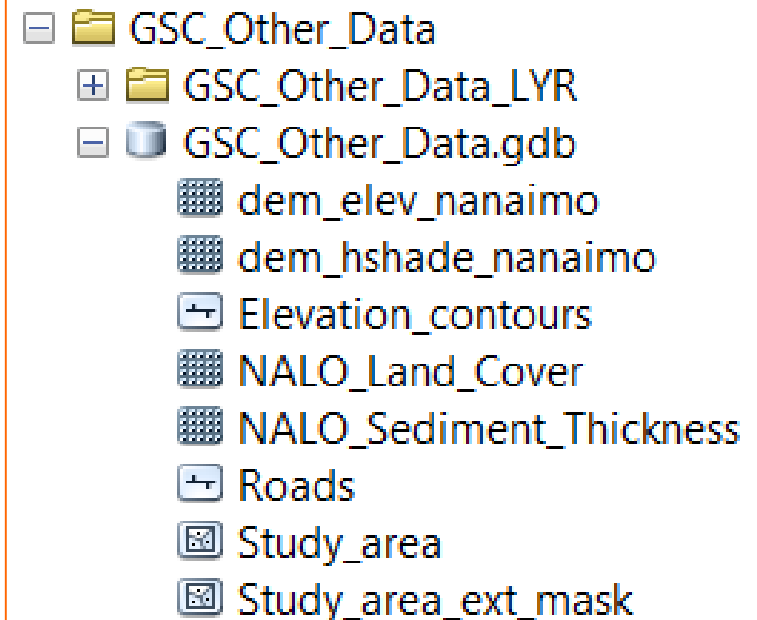
Data from the Groundwater Information Network (GIN):

- ❑ Almost all data produced by the GSC as part of the Nanaimo Lowland Groundwater Study
- ❑ 1 **geodatabase**: GIN_Data.gdb
- ❑ **Layer files** (= symbology)
- ❑ **Metadata** in .html format
- ❑ FEFLOW Groundwater flow model data (in .fem, .html, and .png format)



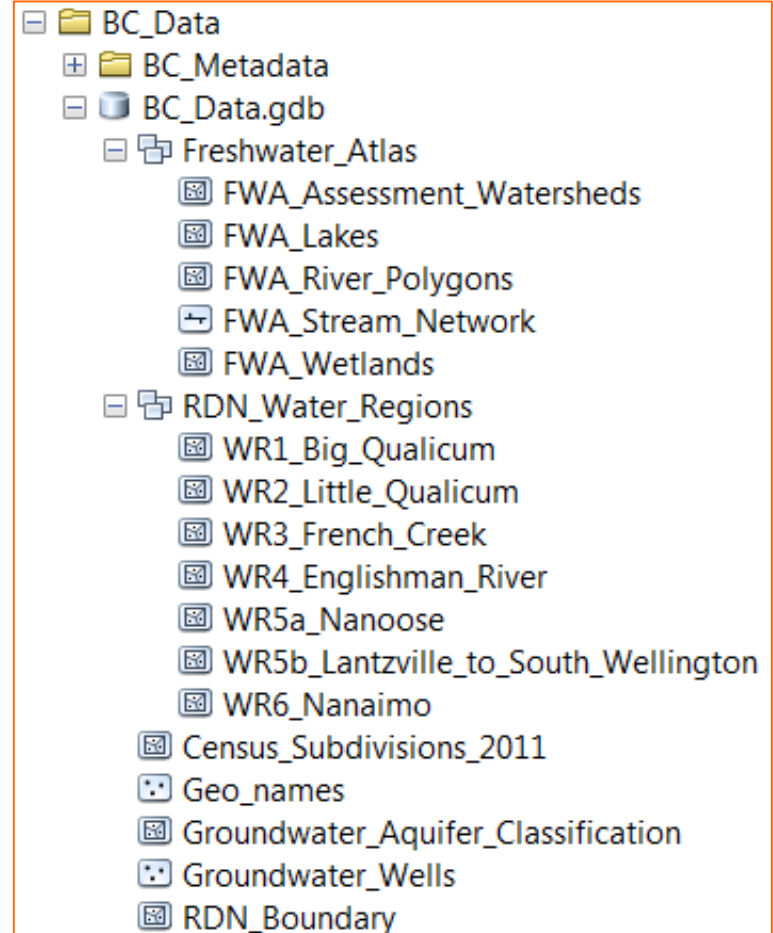
Other data from the GSC:

- ❑ Data produced by the GSC as part of the Nanaimo Lowland Groundwater Study, but not available in the GIN
- ❑ 1 **geodatabase**: GSC_Other_Data.gdb
 - ❑ **Layer files** (= symbology)
 - ❑ No **Metadata** available



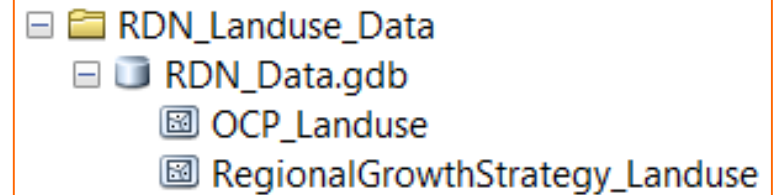
Provincial data:

- ❑ Data available for download via the BC Data Catalogue, including data from the BC Water Resources Atlas
- ❑ 1 **geodatabase**: BC_Data.gdb
- ❑ **Metadata** in .html format
- ❑ No **layer files** available



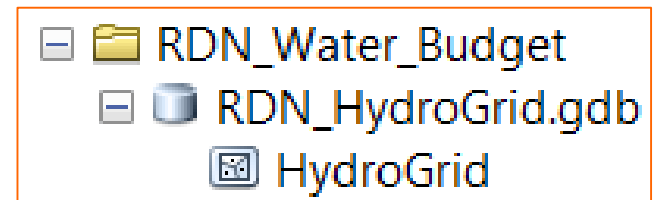
Data from the RDN:

- ❑ Land-use data available for download via the RDN website
- ❑ 1 **geodatabase**: RDN_Data.gdb
- ❑ No **layer files** nor **metadata** available



Data from the RDN Water Budget Project:

- ❑ Water Budget calculations
- ❑ 1 **geodatabase**: RDN_HydroGrid.gdb
- ❑ No **layer files** nor **metadata** available



By geodatabase:

Feature classes or datasets by geodatabase

Geodatabase	Feature class or dataset name	Description	Hydrogeological concept
 GIN_Data.gdb	 HSM_capiglacio2	Capilano (glaciomarine) unit thickness	Hydrostratigraphic unit thickness and spatial distribution
	 HSM_capisal1	Capilano-Salish unit thickness	Hydrostratigraphic unit thickness and spatial distribution
	 HSM_cowidash6	Cowichan-Dashwood unit thickness	Hydrostratigraphic unit thickness and spatial distribution
	 HSM_dashmaple7	Dashwood-Mapleguard unit thickness	Hydrostratigraphic unit thickness and spatial distribution
	 HSM_quadra5	Quadra unit thickness	Hydrostratigraphic unit thickness and spatial distribution
	 HSM_vashcapi3	Vashon-Capilano unit thickness	Hydrostratigraphic unit thickness and spatial distribution
	 HSM_vashtil4	Vashon Till unit thickness	Hydrostratigraphic unit thickness and spatial distribution
	 NALO_Bedrock_Geologic_Units	Bedrock units	Bedrock geology
	 NALO_boreholes_water_wells	Boreholes and water wells	NALO point geometry data
	 NALO_drasticpro	DRASTIC vulnerability index	Aquifer vulnerability
	 NALO_GW_Composition	Hydrochemistry analyses in the Englishman River Basin	NALO point geometry data
	 NALO_GW_Levels	Provincial Observation Well Network	NALO point geometry data
	 NALO_GW_Sample	Location points for hydrochemistry analyses in the Englishman River Basin	NALO point geometry data
	 NALO_Hydraulic_head_Bedrock	Hydraulic head for the bedrock groundwater flow system	Groundwater flow
	 NALO_Hydraulic_head_Quadra	Hydraulic head for the Quadra Sand Aquifer groundwater flow system	Groundwater flow
	 NALO_Hydraulic_Properties	Hydraulic properties from existing pump test data	NALO point geometry data
	 NALO_Hydro_Units_Contexts	Hydrostratigraphic units and hydrogeological contexts	Hydrogeological contexts
	 NALO_Quadra_Conf2	Quadra Sand Aquifer confinement	Quadra Aquifer confinement
	 NALO_recharge_rst2	Groundwater recharge	Groundwater recharge
	 NALO_Surficial_Geologic_Units	Surficial deposits	Surficial geology

By hydrogeological concept:

Feature classes or datasets by geodatabase			
Hydrogeological concept	Feature class or dataset name	Description	Geodatabase
Bedrock geology	 NALO_Bedrock_Geologic_Units	Bedrock units	 GIN_Data.gdb
Surficial geology	 NALO_Surficial_Geologic_Units	Surficial deposits	 GIN_Data.gdb
Sediment thickness	 sed_thick	Total sediment thickness	 GSC_Other_Data.gdb
Hydrostratigraphic unit thickness and spatial distribution	 HSM_capiglacio2	Capilano (glaciomarine) unit thickness	 GIN_Data.gdb
	 HSM_capisal1	Capilano-Salish unit thickness	 GIN_Data.gdb
	 HSM_cowidash6	Cowichan-Dashwood unit thickness	 GIN_Data.gdb
	 HSM_dashmaple7	Dashwood-Mapleguard unit thickness	 GIN_Data.gdb
	 HSM_quadra5	Quadra unit thickness	 GIN_Data.gdb
	 HSM_vashcapi3	Vashon-Capilano unit thickness	 GIN_Data.gdb
	 HSM_vashtil4	Vashon Till unit thickness	 GIN_Data.gdb
Hydrogeological contexts	 NALO_Hydro_Units_Contexts	Hydrostratigraphic units and hydrogeological contexts	 GIN_Data.gdb
Quadra Aquifer confinement	 NALO_Quadra_Conf2	Quadra Sand Aquifer confinement	 GIN_Data.gdb
Groundwater flow	 NALO_Hydraulic_head_Bedrock	Hydraulic head for the bedrock groundwater flow system	 GIN_Data.gdb
	 NALO_Hydraulic_head_Quadra	Hydraulic head for the Quadra Sand Aquifer groundwater flow system	 GIN_Data.gdb
Groundwater recharge	 NALO_recharge_rst2	Groundwater recharge	 GIN_Data.gdb
Aquifer vulnerability	 NALO_drasticpro	DRASTIC vulnerability index	 GIN_Data.gdb
Water budget	 HydroGrid	RDN Water Budget Project calculations	 RDN_HydroGrid.gdb
BC Aquifer Classification	 Groundwater_Aquifer_Classification	Mapped developed groundwater aquifers	 BC_Data.gdb
BC Groundwater Wells Database	 Groundwater_Wells	Groundwater wells	 BC_Data.gdb
Land-use	 NALO_Land_Cover	Land cover	 GSC_Other_Data.gdb
	 OCP_Landuse	Official community plans land-use designation	 RDN_Data.gdb
	 RegionalGrowthStrategy_Landuse	Regional growth strategy	 RDN_Data.gdb