

# GeMS Fields Checklist

Geodatabase name:

## Required layers are present:

- ☐ GeologicMap
  - ☐ MapUnitPolys
  - ☐ ContactsAndFaults
- ☐ DescriptionOfMapUnits
- ☐ Glossary
- ☐ DataSources
- ☐ GeoMaterialDict

Optional layers:

- ☐ MiscellaneousMapInformation
- ☐ GeologicLines
- ☐ GeologicPoints
- ☐ OrientationPoints
- ☐ DirectionPoints
- ☐ MapUnitPoints

## MiscellaneousMapInformation (non-spatial table)

	MiscellaneousMapInformation_ID	prefix MMI
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MapProperty and MapPropertyValue:

	Report Title	If applicable
	Map Title	Exactly as printed on the map
	Publication Date	
	Scale	
	Authors	
	Cartography by	
	Publisher	
	Series	
	Series Number	

## MapUnitPolys (polygon feature class)

	MapUnit	<input type="checkbox"/> No Null values <input type="checkbox"/> All units on the PDF are in this field (in addition to w for water if applicable)
	IdentityConfidence	<input type="checkbox"/> No Null values
	Label	<input type="checkbox"/> Label matches MapUnit
	Symbol	
	Notes	
	DataSourceID	<input type="checkbox"/> No Null values
	MapUnitPolys_ID	prefix MUP
	RuleID	

MapUnitPolys topology rules:

	Polygons must not overlap	
	No gaps between polygons	
	Boundaries must be overlain by lines in ContactsAndFaults (with some exceptions)	

## ContactsAndFaults (line feature class)

	Type	<input type="checkbox"/> No Null values <input type="checkbox"/> Look for line types that seem unusual or uncommon
	MapText	Matches the PDF
	IsConcealed	<input type="checkbox"/> No Null values
	LocationConfidenceMeters	
	ExistenceConfidence	
	IdentityConfidence	
	Label	Probably null

	Symbol	
	DataSourceID	
	Notes	
	ContactsAndFaults_ID	prefix CAF

ContactsAndFaults Topology rules:

	Must not overlap.	
	Must not self-overlap.	
	Must not self-intersect.	
	Must not have dangles, with certain exceptions. Most dangling-line exceptions should be Type='fault' or be Type='contact' and IsConcealed = 'Y'.	

## GeologicLines (line feature class)

	Type	
	IsConcealed	
	LocationConfidenceMeters	
	ExistenceConfidence	
	IdentityConfidence	
	Label	
	Symbol	
	DataSourceID	
	MapText	
	Notes	
	GeologicLines_ID	prefix GEL

GeologicLines topology rules:

	Check line direction Directional decorated lines obey the right-hand rule	
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### Glossary (non-spatial table)

	Term	<ul style="list-style-type: none"><li>❑ Check paragraphStyles against original map</li><li>❑ Terms are in the master glossary</li><li>❑ Master glossary has the map listed in the 'Maps' column</li></ul>
	Definition	Look for truncated definitions
	DefinitionSourceID	
	❖ SeeAlso	
	TermSrcFld	
	TermSrcFC	
	Glossary_ID	prefix GLO

### DataSources (non-spatial table)

	DataSources_ID	Unique and readable abbreviations of the citations
	Source	<ul style="list-style-type: none"><li>❑ Cite the entire publication instead of the plate itself.</li><li>❑ Citations follow USGS format</li></ul>
	Notes	
	URL	If referencing a past Survey publication, the URL directs to the overall publication, not just the plate.

## DescriptionOfMapUnits (non-spatial table)

	MapUnit	
	Name	
	FullName	
	Description	Look for truncated descriptions
	DescriptionSourceID	
	HierarchyKey	
	Age	Each map unit should have a value for age
	GeoMaterial	
	GeoMaterialConfidence	
	ParagraphStyle	
	Label	<input type="checkbox"/> All map units have their abbreviations here. <input type="checkbox"/> Water row has <Null> for label
	Symbol	All null if we aren't using a style file
	AreaFillRGB	
	AreaFillCMYK	optional
	AreaFillPatternDescription	
	DescriptionOfMapUnits_ID	<input type="checkbox"/> prefix DMU

### GeologicPoints (point feature class)

	Type	
	Label	
	Symbol	
	LocationConfidenceMeters	
	IdentityConfidence	
	PlotAtScale	Should be 0
	StationID	Probably null
	MapUnit	Not null
	DataSourceID	
	MapText	
	Notes	
	GeologicPoints_ID	prefix GEP

### OrientationPoints (point feature class)

	Type	
	Azimuth	
	Inclination	
	OrientationConfidenceDegrees	
	Label	
	Symbol	
	LocationConfidenceMeters	
	IdentityConfidence	
	PlotAtScale	
	StationID	
	MapUnit	

	DataSourceID	
	MapText	
	Notes	
	OrientationPoints_ID	prefix ORP

### **DirectionPoints (point feature class)**

	Type	
	Azimuth	
	OrientationConfidenceDegrees	
	Label	
	Symbol	
	DataSourceID	
	MapText	
	Notes	
	DirectionPoints_ID	prefix DRP