BERRIEN TOWNSHIP				
Objective	Master Plan (1992)	Zoning Ordinance (1981, 1998)		
Farmland Preservation	Growth Policies reflect the need to protect prime Ag and recreational lands. Heavy emphasis on preservation of Ag land through several techniques.	 Ag District (AR) with minimum 1 acre. Hotels/Motels and other intensive uses allowed as special land use in AR district. 		
Open Space Protection	 65 percent of Township's land very suitable for development, but preservation stressed. No specific notes made. 	 PUD language encourages open space protection and is allowed in any district. However, it is not shown as a permitted use or special land use in any district. PUD does not provide any percentages for open space, only building coverage (very restrictive). PUD - minimum 10 Acres 		
Surface Water Quality	Growth Policies promote protection of surface water quality.	 Special Land Use section provides for Planning Commission to request environmental impact assessment. Special Land Use final site plan approval requires that surface waters not adversely affect neighboring properties. 		
Groundwater Quality	Growth Policies promote protection of groundwater quality, particularly from septic systems.	Note regarding septic systems on only suitable soils.		
Sensitive Features Protection	Natural features briefly mentioned in relation to the St. Joseph River and several small "muck" areas.	No specific note made.		
General Evaluation	 Plan reflects the Township's desire to remain largely an agricultural based community. Conservation stressed along with the aesthetic benefits of their Ag land. "Preliminary" Plan does not show break down of land in terms of soils and other natural features. 	 No mention of requirements to meet Inland Lakes and Streams Act. Ordinance lacks general site plan review process, only provides process for special land uses. Township contains many small lakes and a portion of the St. Joseph River that should be better protected with ordinance provisions 		

VILLAGE OF CASSOPOLIS				
Objective	Master Plan(1995)	Zoning Ordinance		
Farmland Preservation	No specific note made. Not relevant.	Not Available.		
Open Space Protection	 Plan outlines policies related to open space as it pertains to recreation. No mention of Open Space Preservation. 			
Surface Water Quality	 Stone Lake (140 acres) mentioned as a major attraction, but no particular note of surface water quality or environmental considerations to preserve asset. All soil types in Village listed as being suitable for development. 			
Groundwater Quality	Reference to adequate water, sewer and storm sewer services by Village. Several ground contaminated sites mentioned.			
Sensitive Features Protection	Survey results show environmental factors very important, but plan lacks mention of natural resource protection or policies.			
General Evaluation	Plan has brief description of resources, but lacks specifics related to measures for their protection.			

DECATUR TOWNSHIP			
Objective	Master Plan	Zoning Ordinance (1996)	
Farmland Preservation	Not Available	 Minimum 1 acre lot in Ag District; no other specific provisions in place. Multiple family is permitted in Ag District which could create residential/agricultural conflicts. 	
Open Space Protection		 Residential buffers required adjacent commercial / industrial property along with landscape screen. PUD permits density exchange for open space. 	
Surface Water		No specific note made.	

Quality		
Groundwater Quality	•	No specific note made.
Sensitive Features Protection	•	Only note regarding natural features is in the PUD, which requires "minimum disturbance."
General Evaluation	•	The Ordinance lacks several basic features, particularly site plan review procedures.

VILLAGE OF DECATUR				
Objective Master Plan Zoning Ordinance (1988)		Zoning Ordinance (1988)		
Farmland Preservation	Not Available	No specific note made.		
Open Space Protection		Minimum percent provided for open space.No Specific note made.		
Surface Water Quality		No specific note made.		
Groundwater Quality		No specific note made.		
Sensitive Features Protection		No specific note made.		
General Evaluation		The Ordinance lacks site plan review procedures and other basic features, including PUD regulations.		

CITY OF DOWAGIAC				
Objective	Master Plan (1997)	Zoning Ordinance (1995)		
Farmland Preservation	Growth Policies reflect the need to protect existing Ag lands inside City limits.	No specific note made.		

CITY OF DOWAGIAC					
Objective	Master Plan (1997)	Zoning Ordinance (1995)			
	Growth Policies promote preservation tools, transitions and lot sizes of Ag land.				
Open Space Protection	 Growth Policies suggest residential impact evaluations, PUD's, and preservation of Open Space Network. No specific note made. 	 No specific note made. Zoning Districts have open space requirements. Site Plan Review procedures evaluate open space. 			
Surface Water Quality	Growth Policies promote protection of Dowagiac Creek and the Mill Pond	Site Plan Review procedures require all development impacts to retention ponds, ponds and lakes to be properly reviewed. Review standards examine erosion impacts or problems.			
Groundwater Quality	No specific note made.	 Site Plan Review procedures require minimal impact from storm drainage to site, including surrounding areas. Soils must be properly examined for content (i.e organic, wet, etc.) prior to use. 			
Sensitive Features Protection	Comprehensive Plan encourages the adoption of Natural Resource preservation, including woodlots.	Site Plan Review procedures require natural resources to be preserved to a maximum feasible extent; natural topography is to be respected with minimal cut and fill.			
General Evaluation	 Effective actions described, but surface/ground water quality, environmental and soil elements could improve the plan. Plan provides effective tools for the establishment of cohesive residential neighborhoods without adverse development impacts. 	 PUD District lacks certain features that would make it a more effective planning tool. Many effective tools in place for evaluating environmental impacts of development. 			

HAMILTON TOWNSHIP			
Objective	Master Plan	Zoning Ordinance	
Farmland Preservation	Not Available	All of Township zoned Ag with certain zoning exceptions (p.37). Minimum 1 acre lot with 1 dwelling per lot.	

HAMILTON TOWNSHIP			
Objective	e Master Plan Zoning Ordinance		
		No other specific provisions, although ordinance mentions the objective of encouraging and preserving Ag District.	
Open Space Protection		No specific note made.	
Surface Water Quality		No specific note made.	
Groundwater Quality		No specific note made.	
Sensitive Features Protection		No specific note made.Required setback for water areas.	
General Evaluation		The Ordinance lacks several basic elements, including site plan review procedures, PUD regulations, review standards.	

HOWARD TOWNSHIP				
Objective Master Plan Zoning Ordinance (1994)		Zoning Ordinance (1994)		
Farmland Preservation	Not Available	• One Ag District allowing a minimum farm of 10 acres with a principle farm dwelling on less than ½ acre.		
Open Space Protection		PUD District included with minimum open space percent required.		
Surface Water Quality		 Site Plan Review requires residential development along a lake or stream to follow additional conditions. Ordinance notes requirements to meet Inland Lakes & Streams Act. 		
Groundwater Quality		No specific note made.		
Sensitive Features		Note regarding land extractions & subsequent rehabilitation.		

HOWARD TOWNSHIP			
Objective Master Plan Zoning Ordinance (1994)			
Protection • Site Plan Review requirements include drainage.			
General Evaluation • No mention of buffering regulations or site plan review standards for natural features.			

JEFFERSON TOWNSHIP				
Objective	Master Plan (1991)	Current Zoning Ordinance (1987)	Proposed Zoning Ordinance (2001)	
Farmland Preservation	Growth Policy encourages preservation of prime Ag lands.	One Ag District; approx.1.5 acre required.	 A-1 District; Exclusive Ag District; 10 acre lot sizes. Open Space Clustering by special land use A-2 District; minimum 2 acres, maximum 10 acres. 	
Open Space Protection	Growth Policy encourages open space protection.	PUD provides open space requirements.	 Open Space Clustering in Ag Districts; no incentives provided. PUD has open space requirements, but lacks review standard related to preservation of existing natural features 	
Surface Water Quality	 No particular note of surface water quality. Wetlands discussion and the need for protection. 	 Lake Residential District provided for in Ordinance. Site Plan Review section provide some review standards consideration for evaluation of effect on water quality, erosion and retention. 	Intent of Lake Residential District strongly worded for water quality protection, but few regulations, e.g. no vegetative strip requirement	
Groundwater Quality	 Discussion in several areas of groundwater pollution relating to modern fertilizer, weed control & irrigation methods. Soils discussion pertaining to septic systems & drainage. 	No specific note made.	Septic systems located minimum 100 feet from lake and, if possible, water wells.	
Sensitive Features Protection	Open Space preservation relating to wetlands & forested lands.	 Note regarding land extractions & subsequent rehabilitation. Site Plan Review requirements include drainage and buffering. 	 Environmentally Sensitive Lands Overlay Zone provided; appears to generally apply only to already protected areas. Site Plan Review lacks review standard related to preservation of existing natural features 	
General Evaluation	Plan lacks discussion of lakes &	Site Plan Review lacks certain	Site Plan Review lacks certain environmental	

JEFFERSON TOWNSHIP			
Objective	Master Plan (1991)	Current Zoning Ordinance (1987)	Proposed Zoning Ordinance (2001)
	streams, including desire for protection.	environmental specifics that could aid the objectives.	specifics that could aid the objectives.

KEELER TOWNSHIP				
Objective	Master Plan (1975)	Zoning Ordinance (1994)		
Farmland Preservation	Growth Policy encourages preservation of prime Ag lands	Minimum 10 acre lot in Ag District; no other specific provisions in place		
Open Space Protection	Growth Policy encourages open space protection	 PUD permits density exchange for open space Minimum percentage open space requirements provided. 		
Surface Water Quality	Discussion in several areas regarding development around surrounding lakes and the possible need for sewer to protect water quality.	 Lakefront setbacks present, no vegetative buffer required. Provides some review standard consideration for evaluation of effect on water quality, erosion, and retention. 		
Groundwater Quality	 "Groundwater Availability" description included but extensive discussion is limited to areas surrounding lakes Short discussion about quality of groundwater Soils descriptions include general discussion regarding septic system suitability 	No specific note made.		
Sensitive Features Protection	 General descriptions for soils, lakes, woodlands, primarily from a land use perspective Existing Land Use map includes locations for woodlands and marshes Growth Policy encourages woodlands and "unique" natural resources protection 	Site plan requirements include a description of natural features and a description of which will be retained or removed.		
General Evaluation	Strong justification lacking for most actions related to Growth Policies	Ordinance lacks site plan review standards which could be useful in achieving objectives.		

LA GRANGE TOWNSHIP					
Objective	Master Plan (2002)	Zoning Ordinance (1993)			
Farmland Preservation	Prime farmlands are mapped; Ag preservation policies include use of sliding scale zoning	 Exclusive Ag district in place; 10 acre minimum lot Second Ag district at 2 acres. 			
Open Space Protection	Clustering is promoted in rural residential areas; some discussion on value of open space included in general goals and objectives	No specific note made.			
Surface Water Quality	Apart from some mapping, no specific note is made to account for waterfront related development and its effect on surface waters	 No specific note made. Ordinance notes requirement to meet Inland Lakes & Streams Act. 			
Groundwater Quality	Objective discusses protecting groundwater recharge areas; areas are not identified	No specific note made.			
Sensitive Features Protection	Wetland protection strategy included	 Site plan requirements include a description of natural features. Site plan review criteria do not include provisions for natural feature protection. Special uses review standards note that development must be "in keeping with the natural envir. of the site." 			
General Evaluation	Overall the plan has effective actions described, but generally needs more justification for those actions. Reliance on Community Survey is useful, but more descriptive language is needed. Some effective maps, but not enough use is made of them by describing their meaning and relationship to land use. The Plan is in draft form and is intended to include additional information related to the above.	No PUD regulations are provided.			

MARCELLUS TOWNSHIP		
Objective	Master Plan	Zoning Ordinance (1992)

MARCELLUS TOWNSHIP			
Objective	Master Plan	Zoning Ordinance (1992)	
Farmland Preservation	Not Available	2 Ag Districts. Ag Production District - less than 1 acres lots allowed and minimum 40 acre farm. Ag Residential District - 2 acre minimum.	
Open Space Protection		No specific note made. ● No Flood Plain or Open Space Districts.	
Surface Water Quality		 No specific note made. Lakefront setbacks - no vegetative buffer required. 	
Groundwater Quality		No specific note made.	
Sensitive Features Protection		No specific note made.	
General Evaluation		 Ordinance lacks specific site plan review standards. Ordinance lacks PUD regulations. 	

CITY OF NILES		
Objective	Master Plan	Zoning Ordinance (1994)
Farmland Preservation	Not Available	No specific note made. Not relevant.
Open Space Protection		 Open Space Conservancy and PUD Districts included. Landscape & Buffer provisions include high standards.
Surface Water Quality		 Drainage section of the Ordinances General Provisions includes maintaining parking areas in an environmentally sensitive manner. Residential Districts are to conserve river front areas and to protect ravines and watercourses.
Groundwater Quality		No specific note made.

CITY OF NILES			
Objective	Master Plan	Zoning Ordinance (1994)	
Sensitive Features Protection		Site Plan Review requirements include natural features protection.	
General Evaluation		Site Plan Review could expand upon environmental considerations.	

NILES TOWNSHIP				
Objective	Master Plan (1987)	Zoning Ordinance (1993)		
Farmland Preservation	 Plan addresses that "there are no means, legal or otherwise that can effectively retain these sections permanently in agriculture." No reference to lot sizes or other growth policies for Ag preservation. 	 Ag District with minimum 1 acre. Multiple family and other more intensive uses allowed as a special use in Ag District. 		
Open Space Protection	No specifics mentioned in plan. Provides park status, but lacks growth policies.	PUD requires minimum open space.No specific note made.		
Surface Water Quality	No specifics mentioned in plan.	 Site Plan Review requires environmental report including impact to surface water. Site Plan Review includes provisions for drainage. 		
Groundwater Quality	 Soils mentioned as being fairly suitable for development. Contaminated groundwater supplies mentioned, but no remedies provided. Result of contamination is a greater reliance on municipal water and sewer services. 	Site Plan Review provides review of groundwater impact, including drainage reports and soil studies.		
Sensitive Features Protection	Comprehensive Plan lacks natural feature discussion and identification map.	 PUD requires details of impact and preservation of major natural resources. Site Plan Review provides for environmental review, including biological impacts. 		
General Evaluation	Plan briefly describes resources. Little is mentioned	No mention of Open Space or Flood Plain Districts.		

Review of Community Master Plans and Zoning Ordinances Resource Protection Considerations

NILES TOWNSHIP					
Objective	Master Plan (1987)	Zoning Ordinance (1993)			
	about environmental protection methods. Plan discussions revolve around the ability to obtain municipal sewer and water to further various types of growth, but lacks discussions of the impact of growth.	No mention of requirements to meet Inland Lakes & Streams Act, which could include protection elements for the St. Joseph or Dowagiac Rivers.			

PENN TOWNSHIP		
Objective	Master Plan	Zoning Ordinance (1983)
Farmland Preservation	Not Available	 Two Ag Districts; Ag District with minimum 40 acre; Ag Residential District with minimum 2 acre lot. No other specific provisions, although ordinance mentions the objective of encouraging and preserving Ag District.
Open Space Protection		 Ag Districts contain percentages for lot coverage. Residential buffers required between adjoining Districts. PUD is conditional use. No percentages shown for open space.
Surface Water Quality		 No Lakefront setbacks mentioned. Ordinance notes requirements to meet Inland Lakes & Streams Act.
Groundwater Quality		No specific note made.
Sensitive Features Protection		 Note regarding land extractions & subsequent rehabilitation. Required setback for water areas.
General Evaluation		 No mention of Flood Plain District. Ordinance lacks certain site plan review standards and other basic standards that could aid in achieving objectives.

POKAGON TOWNSHIP

Objective	Master Plan (1994)	Zoning Ordinance (1997)
Farmland Preservation	 Ag uses separately mapped; "preservation of prime Ag lands" noted as a development policy as well as discouragement of splitting of prime Ag parcels; Land Use descriptions for Ag do not match Zoning Ordinance requirements 	Two Ag districts; minimum 40 acre and 2 acre lot.
Open Space Protection	 Number of development policies related to open space, particularly for recreation, but preservation of natural features as well; Land Use description is provided for Open Space Preservation 	 Ordinance contains a Flood Plain and Open Space District (no zoning map available). Limits use to Ag uses; residential as conditional (special) use. PUD is conditional (special) use. Minimum percentage open space required.
Surface Water Quality	The riparian areas of the Dowagiac River and its tributaries called out for Open Space Preservation; no particular note of surface water quality	 Ordinance contains a Flood Plain and Open Space District (no zoning map available). Limits use to Ag uses; residential as conditional (special) use. Ordinance notes requirement to meet Inland Lakes & Streams Act.
Groundwater Quality	Reference to safe and adequate water supply as a Plan Objective; but no particular note made of groundwater quality	No specific note made.
Sensitive Features Protection	See Open Space Protection; Open Space - Recreation development policies note "extensive, critical natural features." No particular protection strategies are noted.	 Ordinance contains a Flood Plain and Open Space District (no zoning map available). Limits use to Ag uses; residential as conditional (special) use. Significant natural features must be shown on site plan, but no review standards apply.
General Evaluation	 Plan has brief description of resources, but lacks specifics related to the value to the community, or measures for their protection. 	Strong agricultural emphasis. Ordinance lacks review standards that would permit consideration of natural features.

PORTER TOWNSHIP			
Objective	Master Plan	Zoning Ordinance	

Farmland Preservation	Growth Policies reflect specific and effective tools for maintaining and improving the quality and abundance of agricultural land.	Not Available.
Open Space Protection	Open Space promoted through several effective methods.	
Surface Water Quality	 Growth Policies promote specific surface water quality protection methods. Plan includes discussions relating to flood control, water quality and wildlife concerns. 	
Groundwater Quality	Growth Policies promote protection of groundwater quality through evaluations, reviews, monitoring, and enforcement actions.	
Sensitive Features Protection	Growth Policies encourage preservation and improvement of Natural Resources/Features.	
General Evaluation	 Plan provides specific discussion of lake shore, agricultural, recreational, flood plain, and conservation lands, including lakes and streams. "Preliminary" Plan does not show break down of land in terms of soils and other natural features. 	

SILVER CREEK TOWNSHIP				
Objective	Master Plan	Zoning Ordinance (1976)		
Farmland Preservation	Not Available	Ag district in place, but generally the same as other residential districts.		
Open Space Protection		No specific note made.		
Surface Water Quality		No specific note made.		
Groundwater Quality		No specific note made.		
Sensitive Features Protection		No specific note made.		

Review of Community Master Plans and Zoning Ordinances Resource Protection Considerations

SILVER CREEK TOWNSHIP				
Objective	Master Plan	Zoning Ordinance (1976)		
General Evaluation		 The Ordinance provides the Zoning Administrator with an unusual degree of authority, such as determining setbacks on waterfront lots and approval of special uses. The Ordinance lacked some basic requirements regarding special uses, site plan review, variance review standards, and others. 		

VOLINIA TOWNSHIP				
Objective	Master Plan	Zoning Ordinance (1997)		
Farmland Preservation	Not Available	Ag District with minimum 10 acre farm; conditional use permit allows a 4 acre Homestead Zone.		
Open Space Protection		No specific note made.		
Surface Water Quality		 Special wetland, Lake Frontage and Dowagiac Creek Greenbelt Districts included to protect surface water quality. Greenbelt district purpose is to limit development and agricultural impacts on the Dowagiac Creek. Ordinance notes requirements to meet Inland Lakes & Streams Act. 		
Groundwater Quality		No specific note made.		
Sensitive Features Protection		 Ordinance provides a Special Buffer Zone section. Site Plan Review provides natural features protection. 		
General Evaluation		 Ordinance lacks a PUD provision and Open Space requirements. Site Plan Review Criteria should detail general drainage requirements and other environmental considerations. Ordinance includes development goals section highlighting environmental protection, land use, Ag preservation & natural environmental features. 		

WAYNE TOWNSHIP

Objective	Master Plan (1984/1993)	Zoning Ordinance (1996)
Farmland Preservation	 Development Plan encourages Ag preservation Implementation strategy highlights a need for area to remain agricultural in nature. 	Two Ag Districts; Prime Ag District with minimum 2 acre; General Ag District with minimum 1 acre lot.
Open Space Protection	 Development Plan encourages Open Space protection. Discussion of preservation methods including P.A. 116. 	 Provides for an Open Space District that contains a Single Family Residential provision. Residential buffers required between adjoining Districts.
Surface Water Quality	No specific discussions relating to lake or stream protection.	 Lake Residential District provided for in Ordinance. Ordinance notes requirements to meet Inland Lakes & Streams Act. Supplemental Provisions for Drainage provided.
Groundwater Quality	Due to soils, large portion of Township has septic sewer limitations.	No specific note made.
Sensitive Features Protection	Existing Land Use map includes locations for marshes.	 Note regarding land extractions & subsequent rehabilitation. Site Plan Review requirements include drainage, buffering.
General Evaluation	 More descriptive language, including better justifications could aid the development plan. Although the projected growth rate is minimal, the township contains an abundance of natural features and sensitive environmental areas to protect and maintain. No mention of woodlands or open space concerns. 	No mention of PUD regulations.