

MANAGEMENT SYSTEM TEMPLATE

A. BENCHMARK SYSTEM WORKSHEET

1.	STATE	OK	
2.	FIELD OFFICE	Ardmore, Marietta, Tishomingo, Madill	
3.	MLRA	84B - West Cross Timbers	
4.	COMMON RESOURCE AREA (CRA)	084B.40.001	
5.	RESOURCE INTERPRETATIONS		
5.1	SOIL		
5.2	WATER		
5.3	AIR		
5.4	PLANT		
5.5	ANIMAL		
5.6	HUMAN		
6.	HYDROLOGIC UNIT		
7.	SYSTEM TEMPLATE LABEL	JALAO	
8.	SYSTEM NAME	West Cross Timbers Urban (Dense)	
9.	PLANNING PHASE	Benchmark	
10.	PLANNING LEVEL	N/A	
11.	NRCS LANDUSE	Urban	
12.	EXISTING CONSERVATION PRACTICES		
	1. 561 - Heavy Use Area Protection		
13.	SYSTEM NARRATIVE		
	<p>The system typically involves densely populated developments (2.5 acres/home or less), on nearly level to gently sloping soils with a few steep slopes. Soil texture varies considerably, as does depth and exposure. Developed areas are protected with bermudagrass with occasional cool-season species such as fescue, ryegrass or bluegrass in mixed stands or shaded areas. Application of nutrients and pesticides is generally performed without regard for production needs or pest infestation levels, and label directions are not always adhered to. Soil erosion is a major concern on construction sites in developing areas, causing safety hazards, decreasing flow capacity of drainage systems, affecting storage capacity and water quality in local water bodies, and transporting nutrients and pesticides downstream. As the flow capacity and storage capacity of the drainage systems and water bodies become restricted with sediment, flooding and additional streambank erosion become a concern. Air quality is a concern in and around construction sites as there is seldom any vegetative cover associated with these areas. As air quality degrades, health concerns of the population in and around the construction areas becomes a concern.</p>		
14.	RESOURCE CONCERNS		MAGNITUDE/EFFECTS
	<ol style="list-style-type: none"> 1. Soil Erosion - Streambank 2. Soil Erosion - Construction Sites 3. Soil Deposition - Damage Offsite 4. Soil Deposition - Safety Offsite 5. Water Quantity - Excess Amounts Runoff/Flooding 6. Water Quantity - Inadequate Outlets 7. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Offsite) 8. Water Quantity - Restricted Flow Capacity From Sediment Deposition (Water Bodies) 		<ol style="list-style-type: none"> 1. 100 Tons/Year; Inadequate vegetative cover and poor management techniques used in riparian areas. 2. 50 Tons/Acre/Year; No vegetative cover. 3. Sediment deposition covers vegetation, creates safety hazards in roads and streets, reduces the flow capacity of drainage systems, reduces storage capacity of water bodies, and degrades water quality downstream. 4. Sediment deposition in roads and streets creates safety hazards, reduces flow capacity in drainage systems and storage capacity in water bodies, increases flooding hazards. 5. Runoff and flooding problems increase as the percentage of the area covered with concrete and asphalt increases. 6. Problem increases as the density of the development increases or as the drainage systems become restricted with sediment. 7. Increased sediment deposition originating from construction sites restricts the natural flow in drainage channels. 8. Increased sediment deposition originating from construction sites restricts the flow and storage capabilities of downstream water bodies.

14.	RESOURCE CONCERNS	MAGNITUDE/EFFECTS
	<p>9. Water Quality - Surface Water Contaminates - Pesticides</p> <p>10. Water Quality - Surface Water Contaminates - Nutrients and Organics</p> <p>11. Water Quality - Surface Water Contaminates - Suspended Sediment and Turbidity</p> <p>12. Air Quality - Health</p> <p>13. Plants Management - Nutrient Management</p> <p>14. Plants Management - Pest (Brush, Weeds, Insects, Etc.)</p>	<p>9. Uneducated and inappropriate use of pesticides in densely populated areas degrades downstream water quality.</p> <p>10. Uneducated and inappropriate use of nutrients in densely populated areas degrades downstream water quality.</p> <p>11. As sediment loads from construction sites increases, water quality degrades due to suspended sediments and turbidity.</p> <p>12. In and around areas of new construction, health concerns increase due to dust particles in the air.</p> <p>13. Commercial nutrients are applied without regard for plant uptake. Uneducated and inappropriate amounts are applied for what is thought to be increased beautification.</p> <p>14. Pesticides are applied without regard to pest populations with uneducated and inappropriate application techniques.</p>