

# **Accessible Water Inventory of the City of Urbana**

**Spring 2015**



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## Methodology

This inventory report is in support of Aspect 5, Goal 1, Action 1 of Urbana’s Sustainable Water Management Plan, excerpted below:

### **“Aspect 5: Recreational Waters**

*Goal 1: Support the access to and use of recreational waters.*

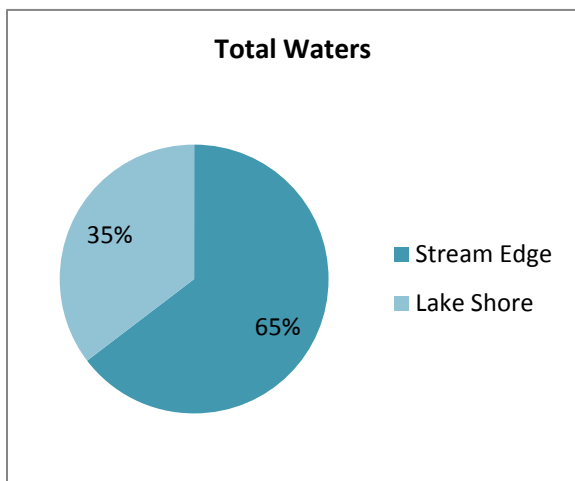
*Action 1: Assess current amount of public access to recreational waters.”*

Waters are categorized as accessible or inaccessible, recreational or non-recreational, and, to produce the final inventories, accessible recreational or inaccessible recreational. Waters are considered accessible if they are visible from public property, such as a park, a public golf course, or even a sidewalk. Inaccessible waters are those that are surrounded by private property or that are otherwise not viable or appropriate for general use. Recreational waters are those that serve as community amenities, whether for primary or secondary contact recreational, or for passive viewing. Non-recreational waters are those whose primary function is stormwater management.

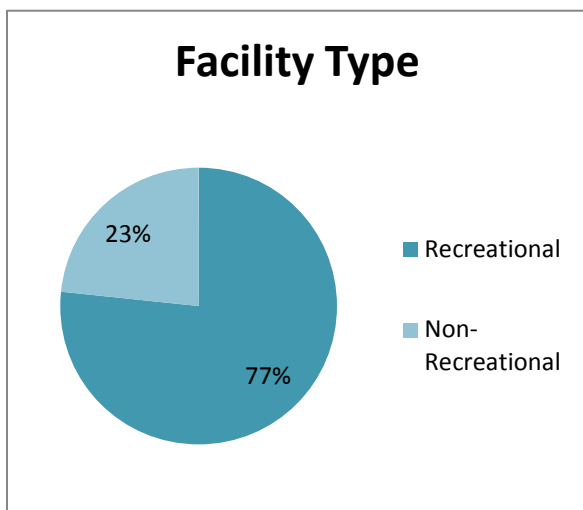
The present inventory was produced using Champaign County GIS Consortium data and Google Earth to perform a close-grained evaluation of accessibility and recreational function. The two scenarios follow the development of the Boneyard Creek, as outlined in the City of Urbana’s Boneyard Creek Master Plan. Scenario 1 includes the completion of Phase 1, Segments 1 and 2 outlined in the plan. Scenario 2 includes the completion of Phase 1, Segments 1, 2, 4, and 5. As of spring 2015, Phase 1, Segment 3 as outlined in the Boneyard Creek Master Plan has been completed.

Also mapped are served areas within the City of Urbana. A served area is one that is within half a mile of an accessible, recreational body of water. Any area outside of that buffer is classified as underserved.

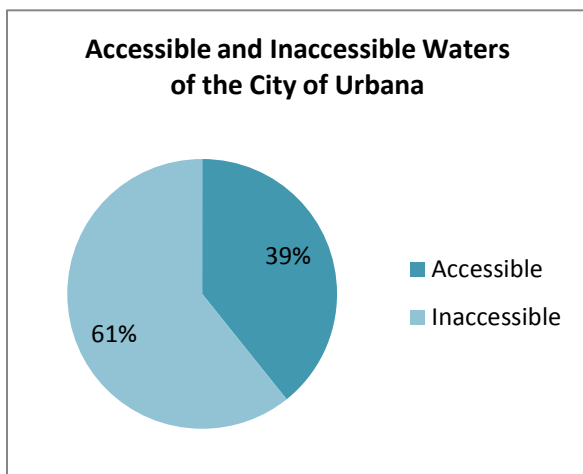
## Present Conditions: 2015 Inventory



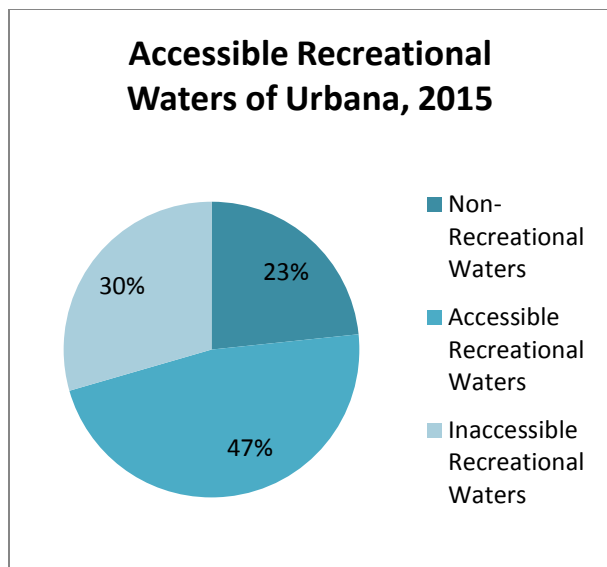
	Linear Feet	Percentage
<b>Stream Edge</b>	127,425	64.6%
<b>Lake Shore</b>	69,761	35.4%
<b>Total</b>	197,186	100%



	Linear Feet	Percentage
<b>Total</b>	<b>197,186</b>	<b>100.0%</b>
<b>Recreational</b>	<b>151,134</b>	<b>76.6%</b>
<i>Streams</i>	98,832	
<i>Lakes</i>	52,302	
<b>Non-Recreational</b>	<b>46,052</b>	<b>23.4%</b>
<i>Streams</i>	28,593	
<i>Lakes</i>	17,459	



	Linear Feet	Percentage
<b>Total</b>	<b>197,186</b>	<b>100.0%</b>
<b>Accessible</b>	<b>77,395</b>	<b>39.2%</b>
<i>Streams</i>	51,571	
<i>Lakes</i>	25,824	
<b>Inaccessible</b>	<b>119,791</b>	<b>60.8%</b>
<i>Streams</i>	75,854	
<i>Lakes</i>	43,937	



	Linear Feet	Percentage
<b>All Waters</b>	<b>197,186</b>	<b>100.0%</b>
<i>Streams</i>	127,425	
<i>Lakes</i>	69,761	
<b>Non-Recreational Waters</b>	<b>46,052</b>	<b>23.4%</b>
<i>Streams</i>	28,593	
<i>Lakes</i>	17,459	
<b>Accessible Recreational Waters</b>	<b>92,971</b>	<b>47.1%</b>
<i>Streams</i>	49,034	
<i>Lakes</i>	43,937	
<b>Inaccessible Recreational Waters</b>	<b>58,163</b>	<b>29.5%</b>
<i>Streams</i>	49,798	
<i>Lakes</i>	8,365	

## Analysis

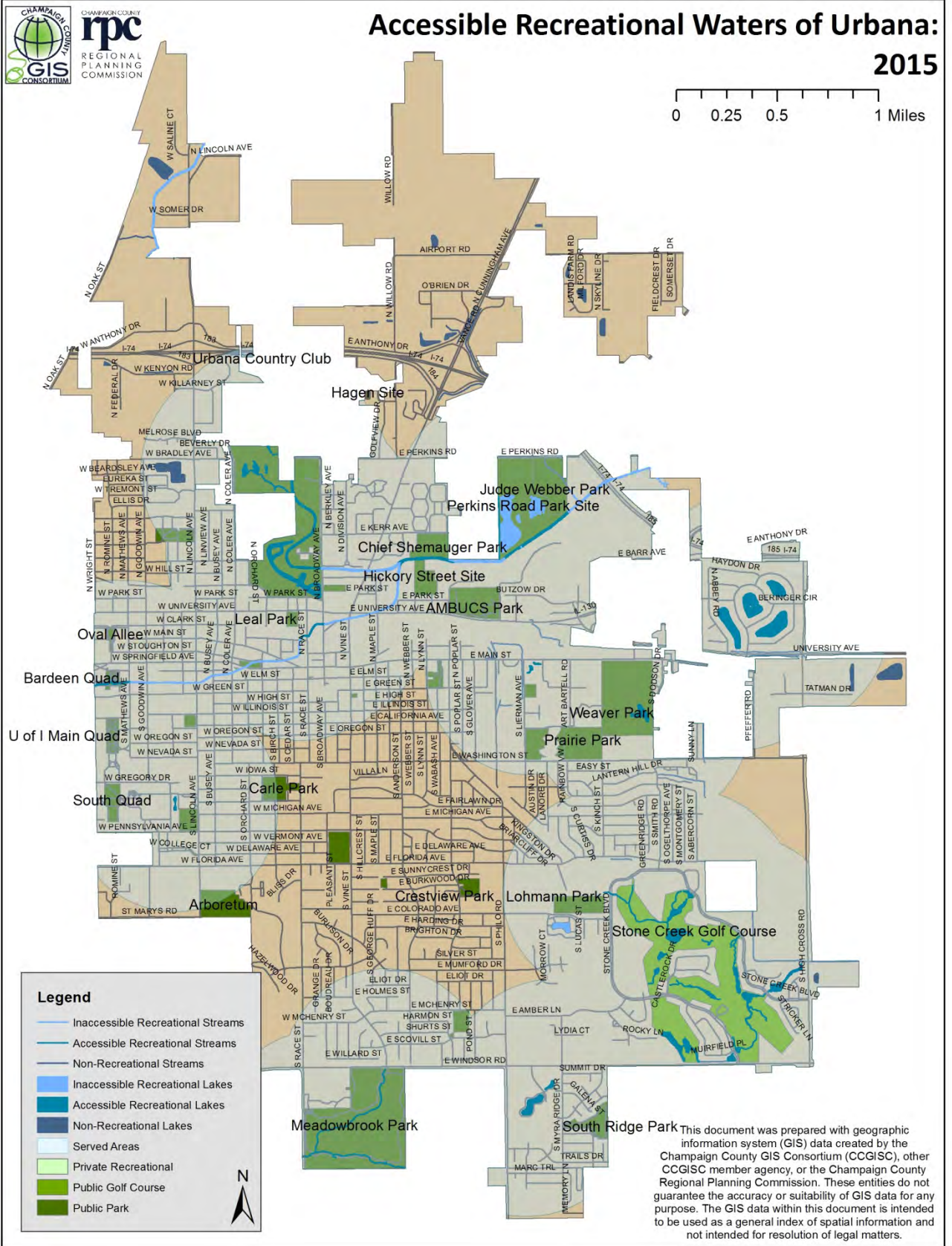
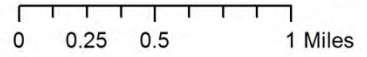
Currently, accessible, recreational waters are found throughout most of the City of Urbana. More lakes than streams are both accessible and recreational, with the exception of an inaccessible lake in a subdivision south of Lohmann Park, and the lakes in the yet-to-be-opened Perkins Road Park Site.

Accessible, recreational streams in the City of Urbana include portions of the Saline Branch and Boneyard Creek. Much accessible, recreational water in the City of Urbana is found within parks and other areas of public open space, notably Crystal Lake Park, Meadowbrook Park, Weaver Park, and the Stone Creek Golf Course.

Underserved areas (areas that are more than half a mile from an accessible, recreational lake or stream) include north Urbana, north of I-74, and south central Urbana, bounded roughly by S. Race Street, Washington Street, S. Philo Road, and Mumford Drive.



# Accessible Recreational Waters of Urbana: 2015

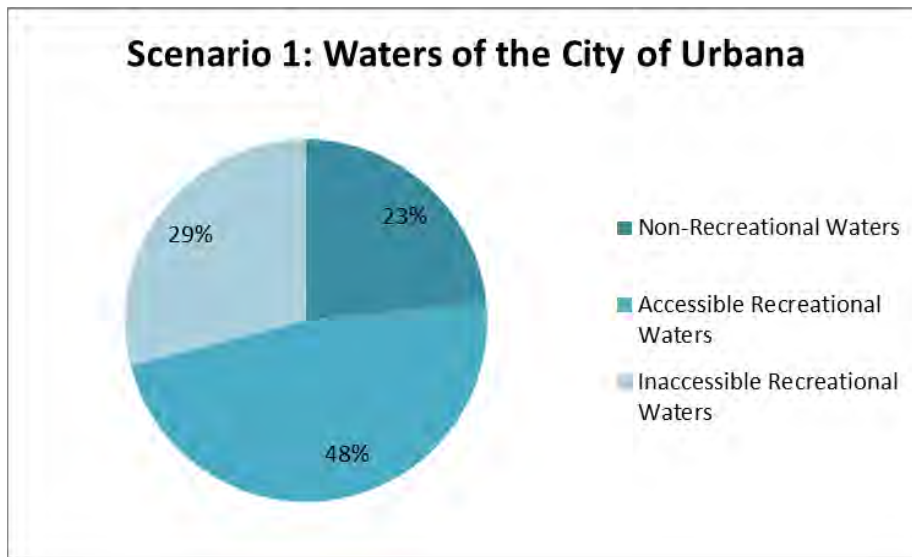


**Legend**

- Inaccessible Recreational Streams
- Accessible Recreational Streams
- Non-Recreational Streams
- Inaccessible Recreational Lakes
- Accessible Recreational Lakes
- Non-Recreational Lakes
- Served Areas
- Private Recreational
- Public Golf Course
- Public Park

This document was prepared with geographic information system (GIS) data created by the Champaign County GIS Consortium (CCGISC), other CCGISC member agency, or the Champaign County Regional Planning Commission. These entities do not guarantee the accuracy or suitability of GIS data for any purpose. The GIS data within this document is intended to be used as a general index of spatial information and not intended for resolution of legal matters.

## Scenario 1



Accessible Recreational Waters		
	Linear Feet	Percentage
<b>All Waters</b>	<b>197,186</b>	<b>100.0%</b>
<i>Streams</i>	127,425	
<i>Lakes</i>	69,761	
<b>Non-Recreational Waters</b>	<b>46,052</b>	<b>23.4%</b>
<i>Streams</i>	28,593	
<i>Lakes</i>	17,459	
<b>Accessible Recreational Waters</b>	<b>93,962</b>	<b>47.7%</b>
<i>Streams</i>	50,025	
<i>Lakes</i>	43,937	
<b>Inaccessible Recreational Waters</b>	<b>57,152</b>	<b>29.0%</b>
<i>Streams</i>	48,807	
<i>Lakes</i>	8,365	

### Analysis

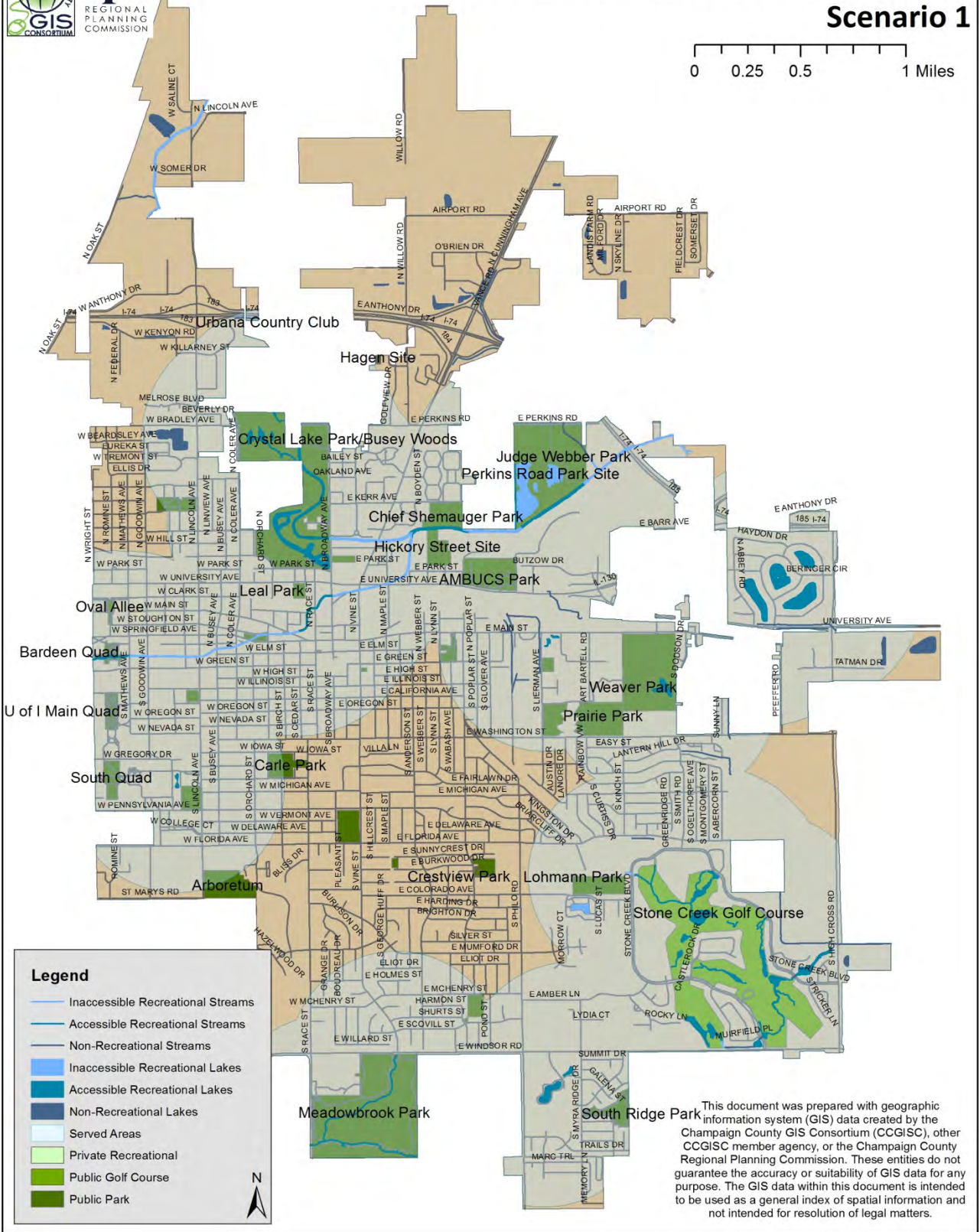
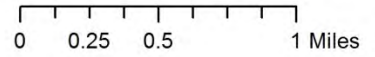
Scenario 1 assumes that Phase 1, Segments 1 and 2 of the Boneyard Creek Master Plan have been completed, and that the section of the Boneyard Creek just north of Springfield Avenue and Main Street is both accessible and recreational. Phase 1, Segment 1 of the Boneyard Creek Master Plan spans the section of the creek immediately north of Main Street. Segment 2 runs between the 119 N. Race Street Redevelopment and Griggs Street.

Thus, the served and underserved areas remain much the same as they are in the 2015 inventory, except for several square blocks in central Urbana that fall within the served area.



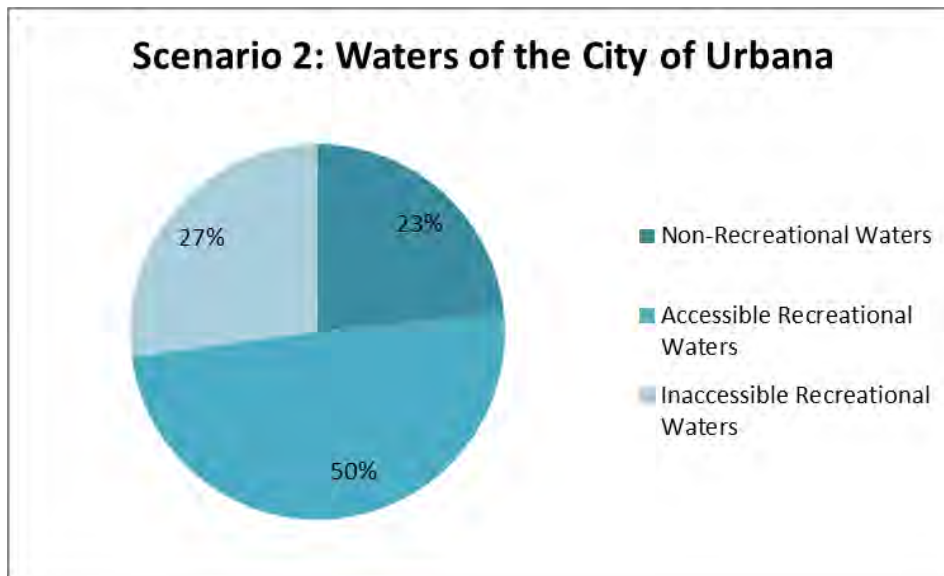


# Accessible Recreational Waters in Urbana: Scenario 1



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## Scenario 2



<b>Accessible Recreational Waters</b>		
	<b>Linear Feet</b>	<b>Percentage</b>
<b>All Waters</b>	<b>197,186</b>	<b>100.0%</b>
<i>Streams</i>	127,425	
<i>Lakes</i>	69,761	
<b>Non-Recreational Waters</b>	<b>46,052</b>	<b>23.4%</b>
<i>Streams</i>	28,593	
<i>Lakes</i>	17,459	
<b>Accessible Recreational Waters</b>	<b>97,677</b>	<b>49.5%</b>
<i>Streams</i>	53,740	
<i>Lakes</i>	43,937	
<b>Inaccessible Recreational Waters</b>	<b>53,457</b>	<b>27.1%</b>
<i>Streams</i>	45,092	
<i>Lakes</i>	8,365	

### **Analysis**

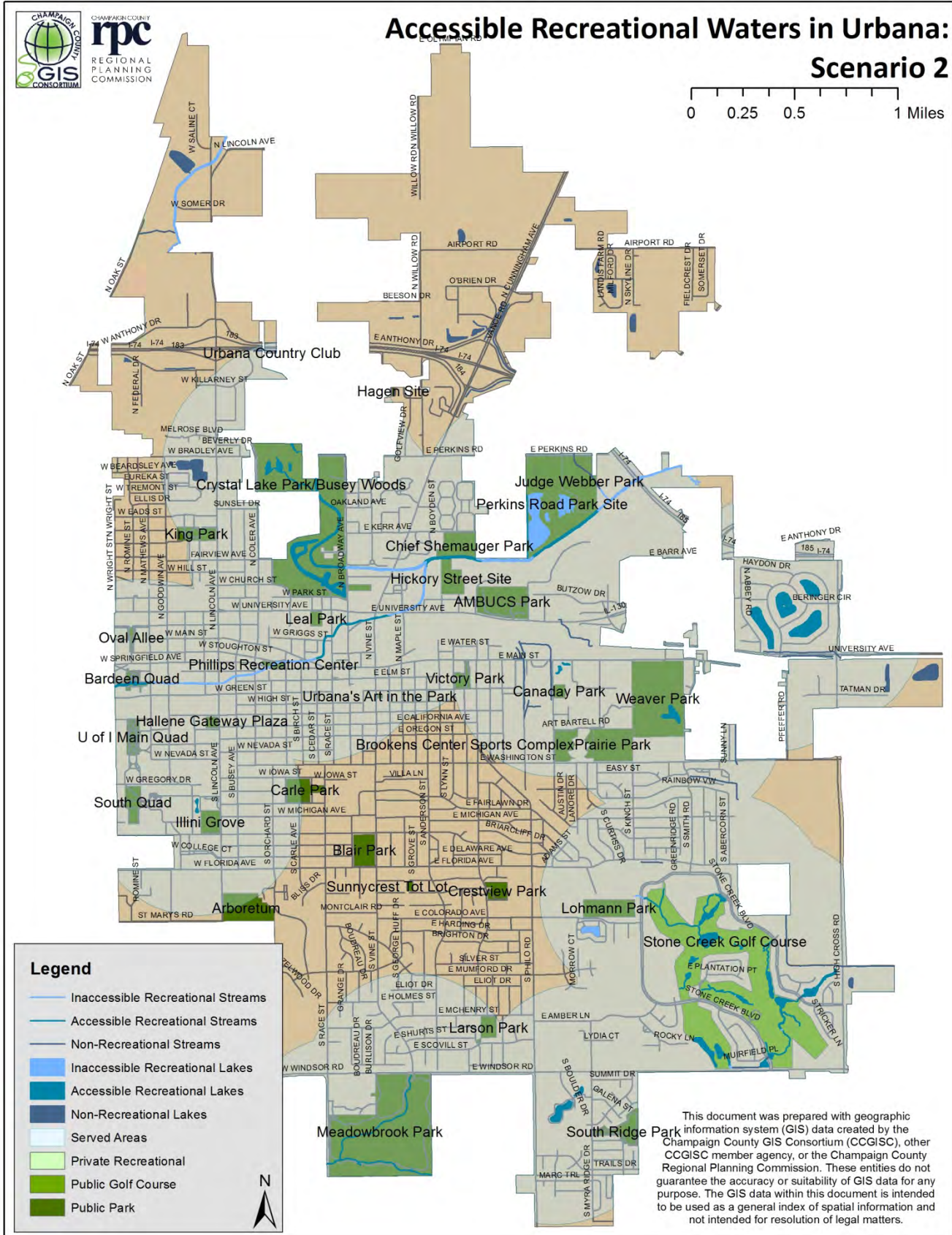
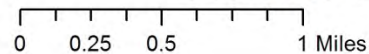
Scenario 2 assumes that Phase 1, Segments 1, 2, 4, and 5 of the Boneyard Creek Master Plan have been completed. Phase 1, Segment 4 includes the portion of the creek between Broadway Avenue and Vine Street. Segment 5 includes the portion of the Boneyard Creek between Vine Street and University Avenue.

With the completion of these phases, the underserved area in central Urbana shrinks again, but remains significant.





# Accessible Recreational Waters in Urbana: Scenario 2



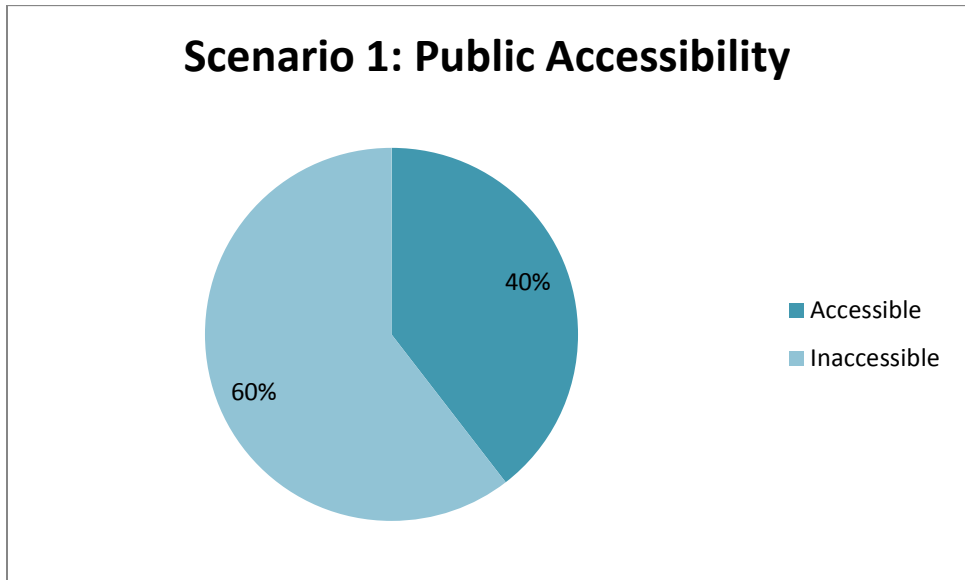
**Legend**

- Inaccessible Recreational Streams
- Accessible Recreational Streams
- Non-Recreational Streams
- Inaccessible Recreational Lakes
- Accessible Recreational Lakes
- Non-Recreational Lakes
- Served Areas
- Private Recreational
- Public Golf Course
- Public Park

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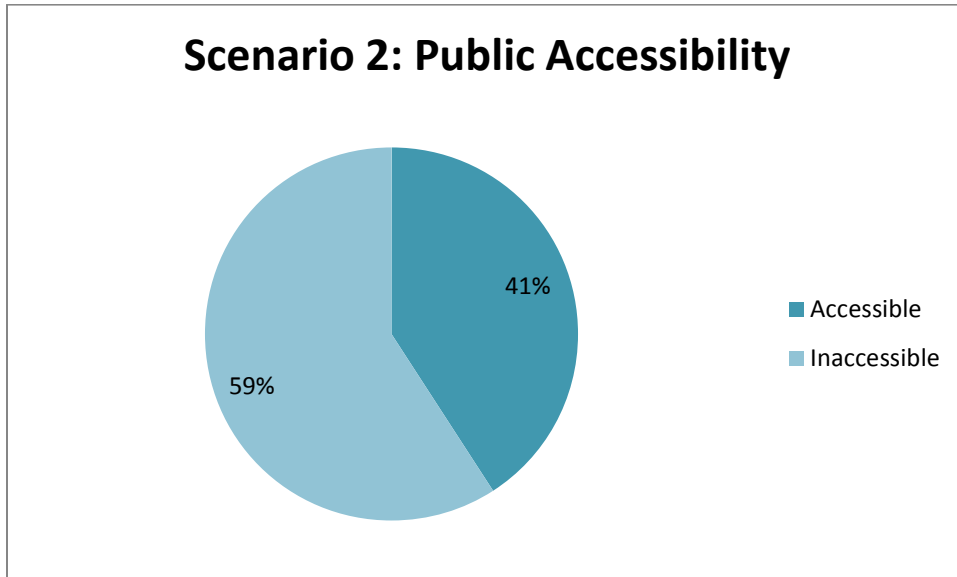
## Appendix 1: Supplemental Charts and Tables

### Scenario 1



	Linear Feet	Percentage
<b>Total</b>	<b>197,186</b>	<b>100.0%</b>
<b>Accessible</b>	<b>77,975</b>	<b>39.5%</b>
<i>Streams</i>	52,151	
<i>Lakes</i>	25,824	
<b>Inaccessible</b>	<b>119,211</b>	<b>60.5%</b>
<i>Streams</i>	75,274	
<i>Lakes</i>	43,937	

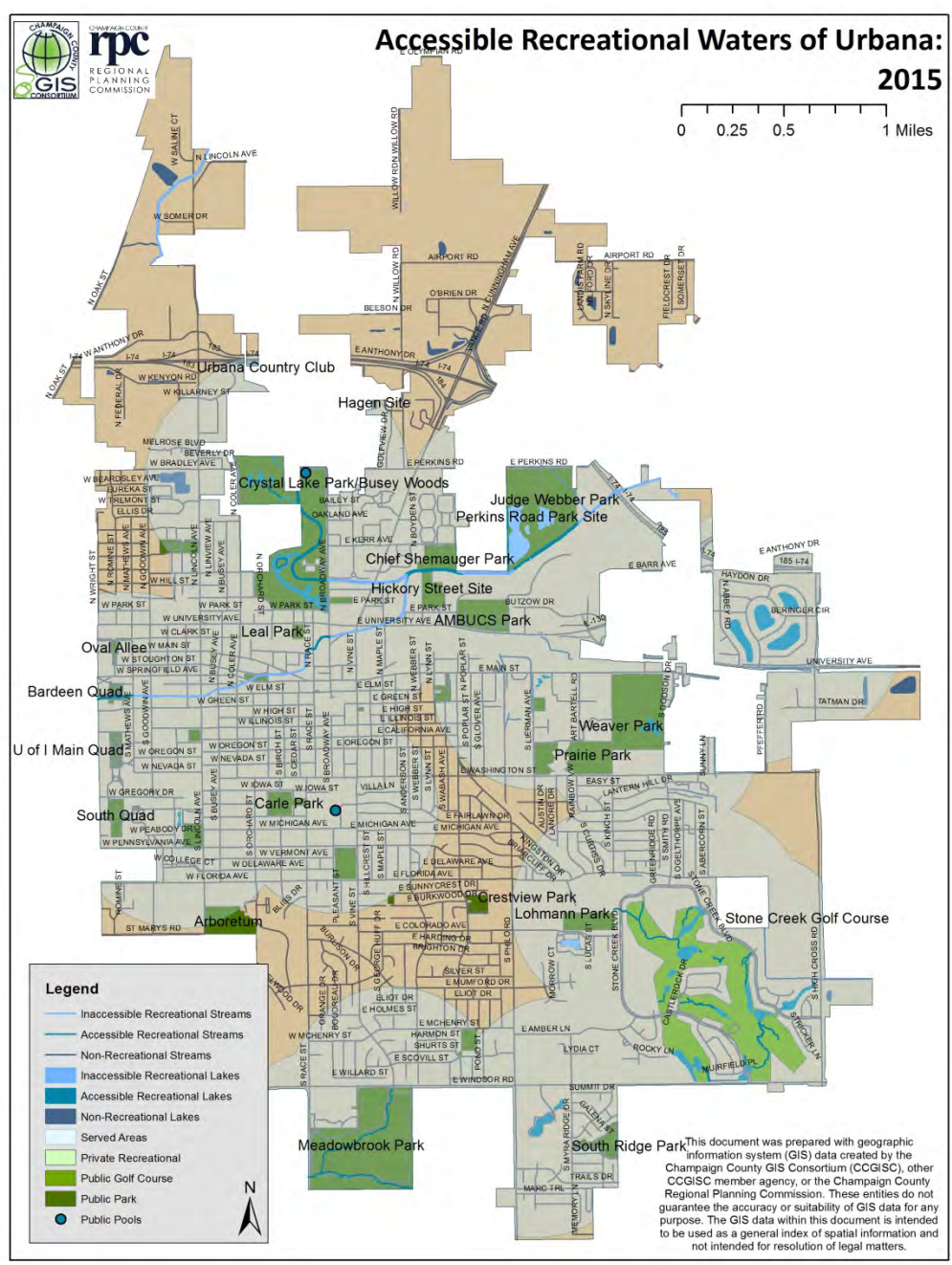
Scenario 2



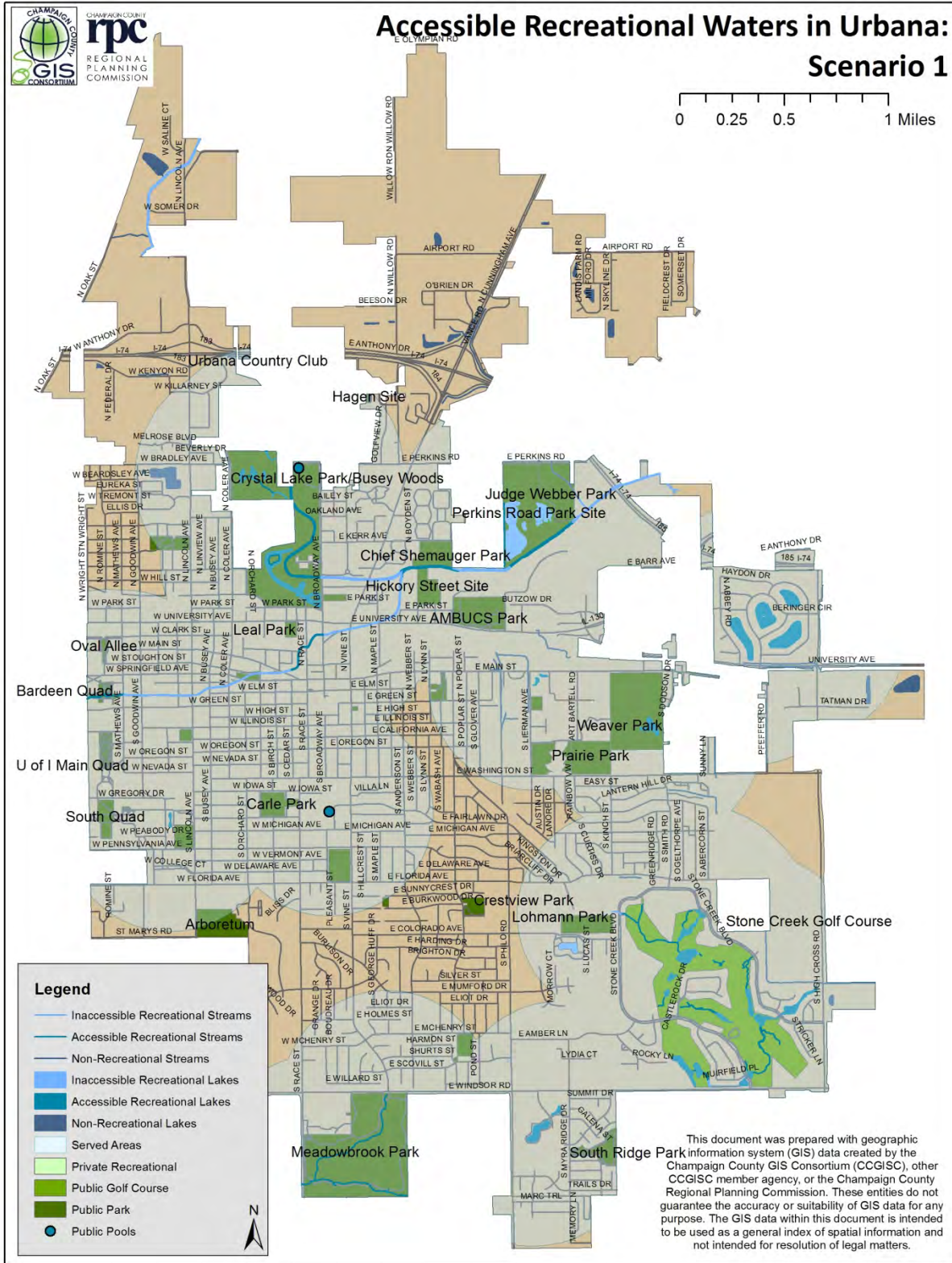
	Linear Feet	Percentage
<b>Total</b>	<b>197,186</b>	<b>100.0%</b>
<b>Accessible</b>	<b>80,552</b>	<b>40.9%</b>
<i>Streams</i>	54,728	
<i>Lakes</i>	25,824	
<b>Inaccessible</b>	<b>116,634</b>	<b>59.1%</b>
<i>Streams</i>	72,697	
<i>Lakes</i>	43,937	

## Appendix 2: Served Areas Including Public Swimming Pools

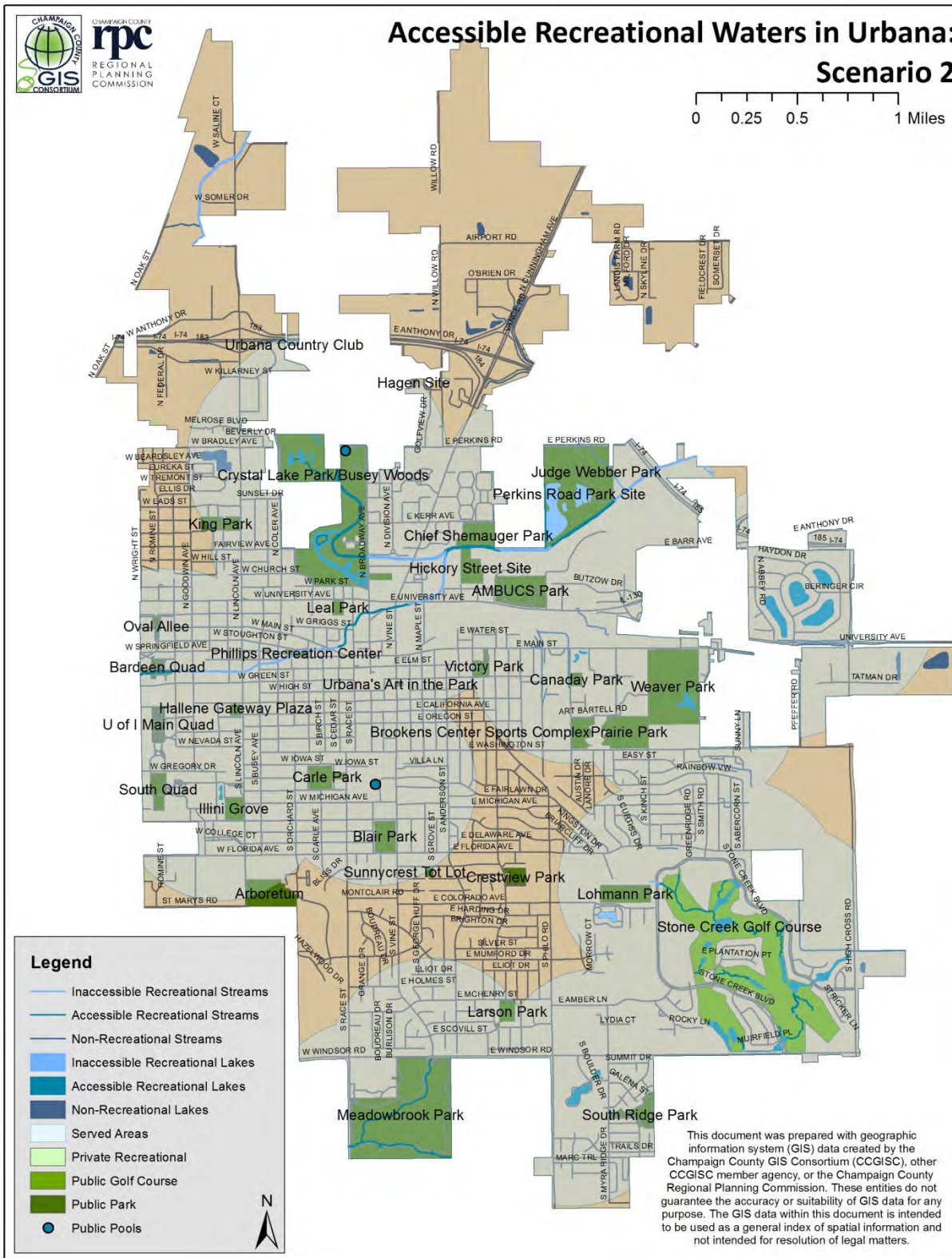
Below are maps showing the served and underserved areas in the City of Urbana when public swimming pools are counted as accessible, recreational water. In the maps above, swimming pools were not counted. Since the edges in linear feet of the public swimming pools are negligible compared to the waters throughout the City, full charts and tables were not computed.











### Appendix 3: Served Areas and Population Density

Below are maps showing served and underserved areas of the City of Urbana with the City’s population density. All three maps show population density as of the 2010 Census. The served and underserved areas are respective to the scenarios, and do not include swimming pools as accessible, recreational water.

