

Data Source: Water Quality Classifications GIS Data Layer
Created by NYSDEC
Provided by NYSDEC

Black River Watershed Management Plan

CHARACTERIZATION REPORT

Legend

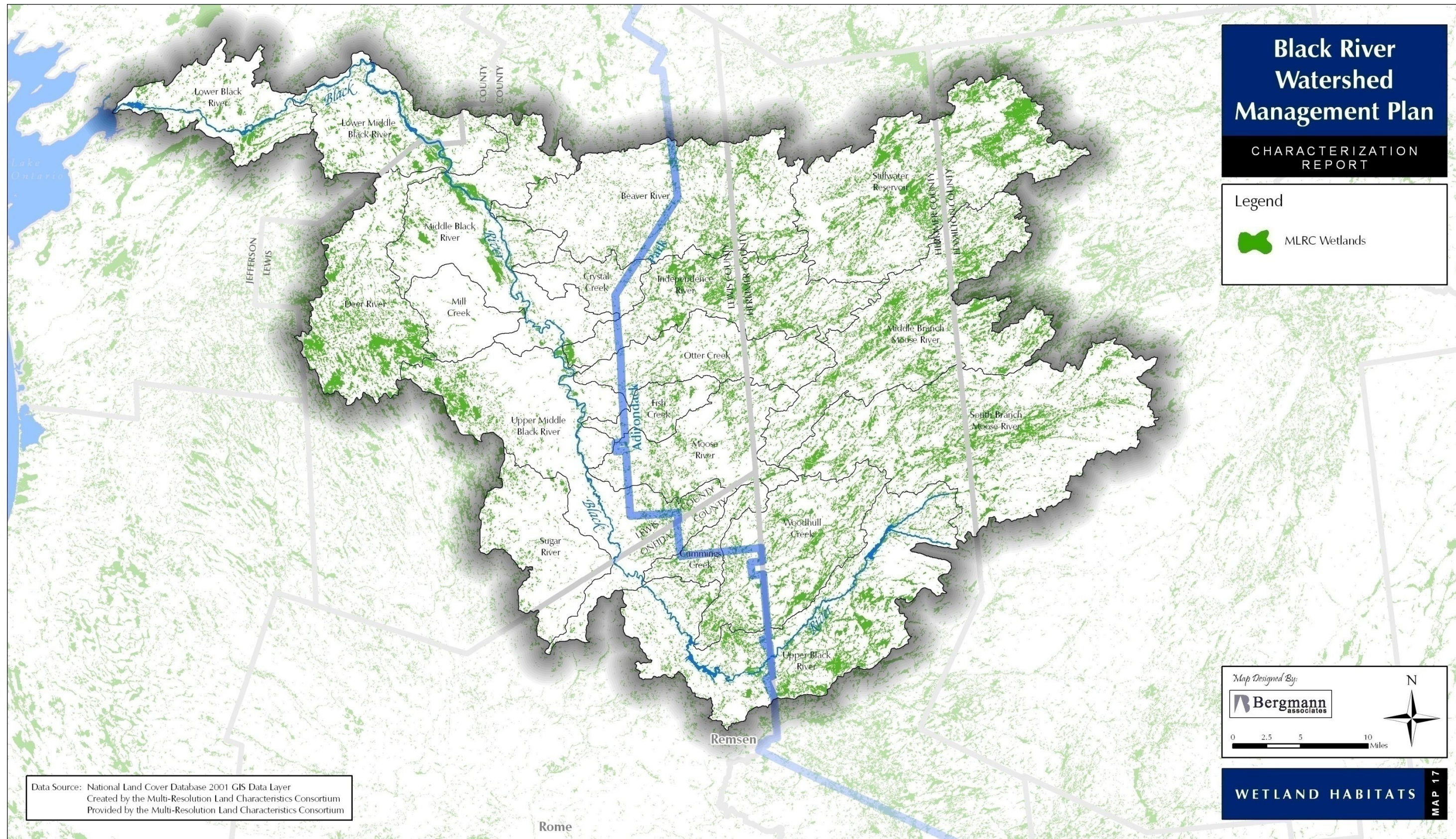
- Non-Trout Waters
- Trout Waters
- Suitable for Trout Spawning

Map Designed By:

0 2.5 5 10 Miles

NYSDEC
TROUT WATERS
MAP 16

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Black River Watershed Management Plan



CHARACTERIZATION REPORT

Legend

 MLRC Wetlands

Data Source: National Land Cover Database 2001 GIS Data Layer
Created by the Multi-Resolution Land Characteristics Consortium
Provided by the Multi-Resolution Land Characteristics Consortium

Map Designed By:

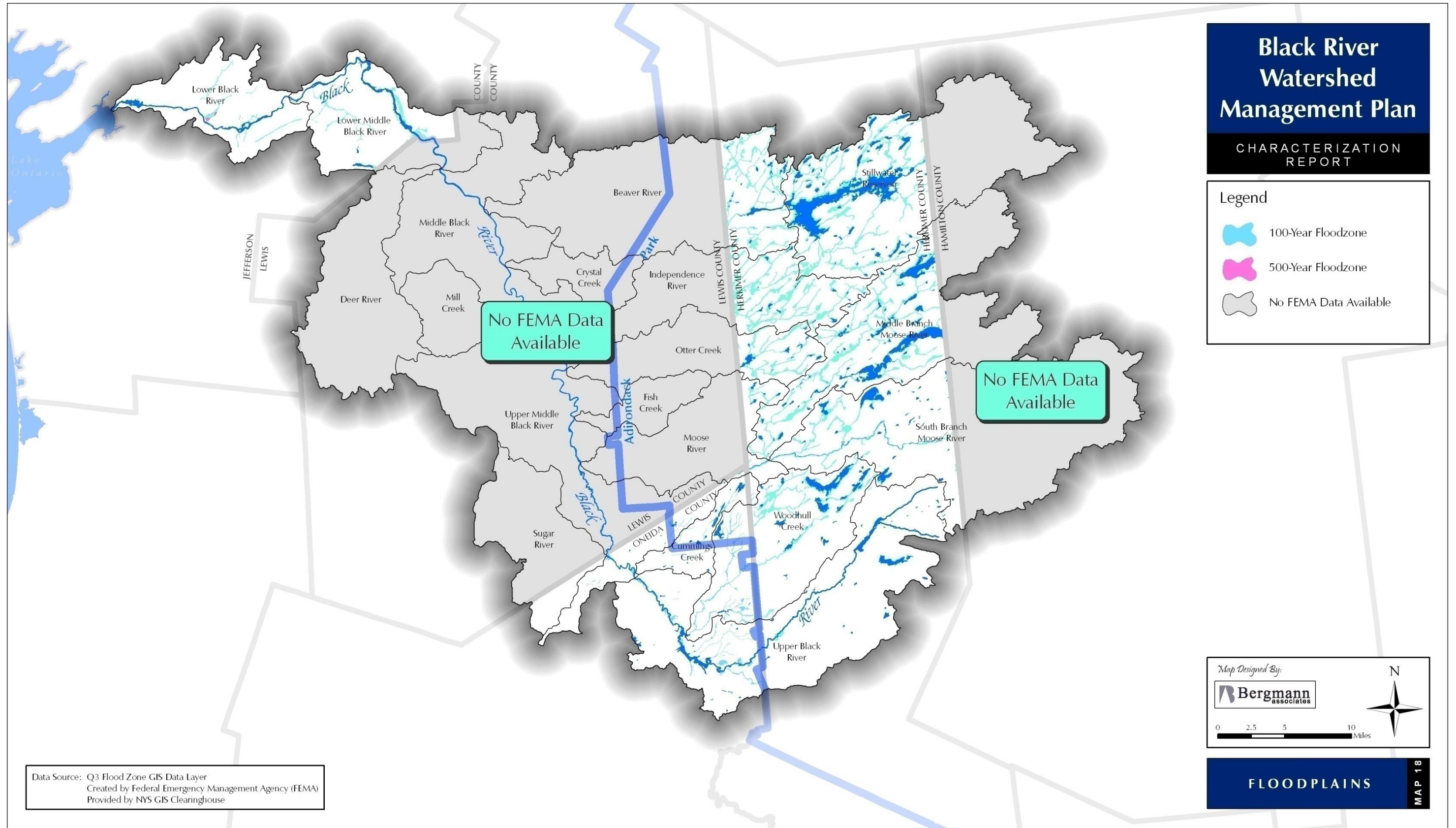


0 2.5 5 10 Miles

WETLAND HABITATS

MAP 17

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Data Source: Q3 Flood Zone GIS Data Layer
Created by Federal Emergency Management Agency (FEMA)
Provided by NYS GIS Clearinghouse

Black River Watershed Management Plan
CHARACTERIZATION REPORT

Legend

-  100-Year Floodzone
-  500-Year Floodzone
-  No FEMA Data Available

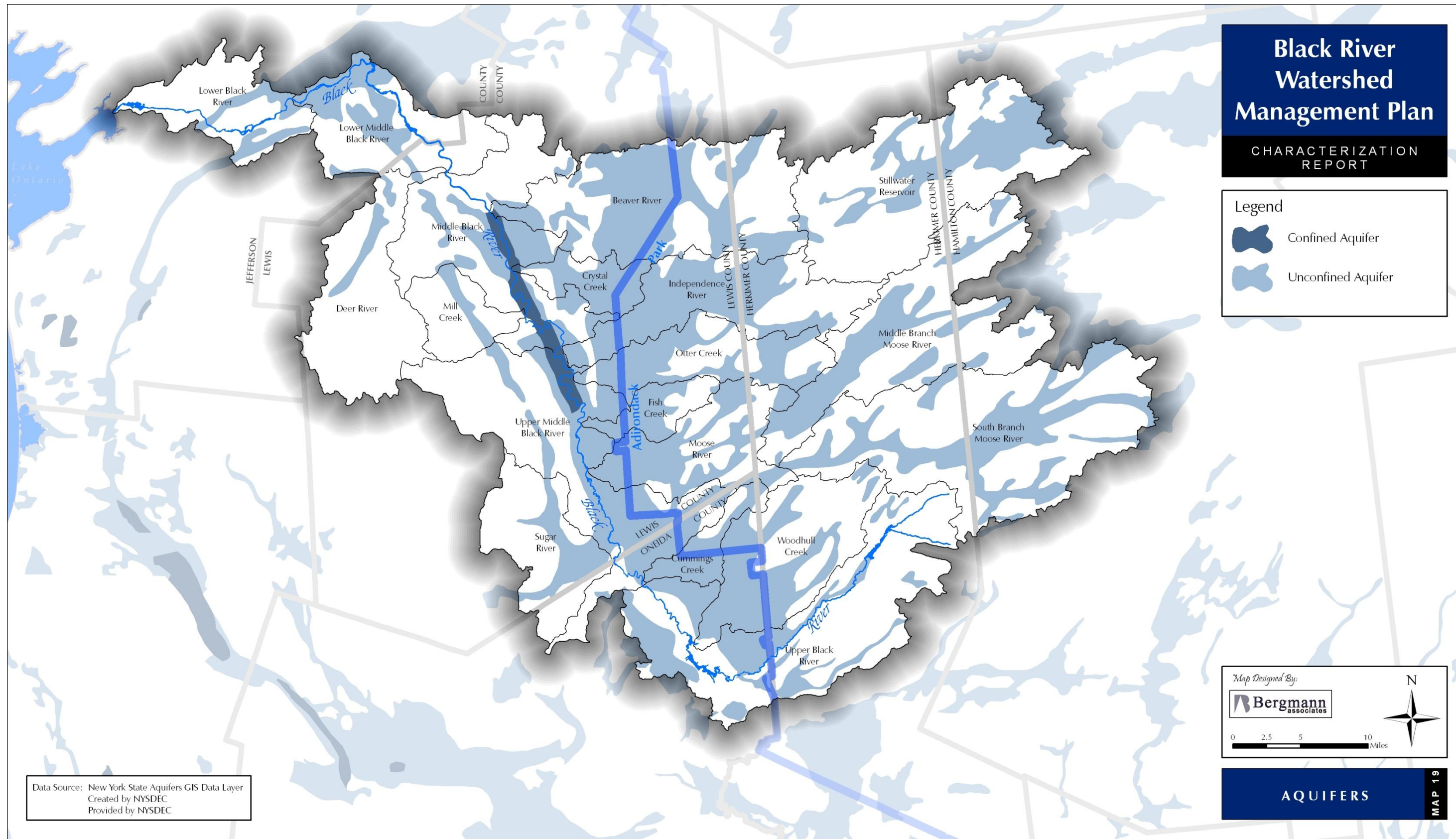
Map Designed By:

0 2.5 5 10 Miles

FLOODPLAINS MAP 18

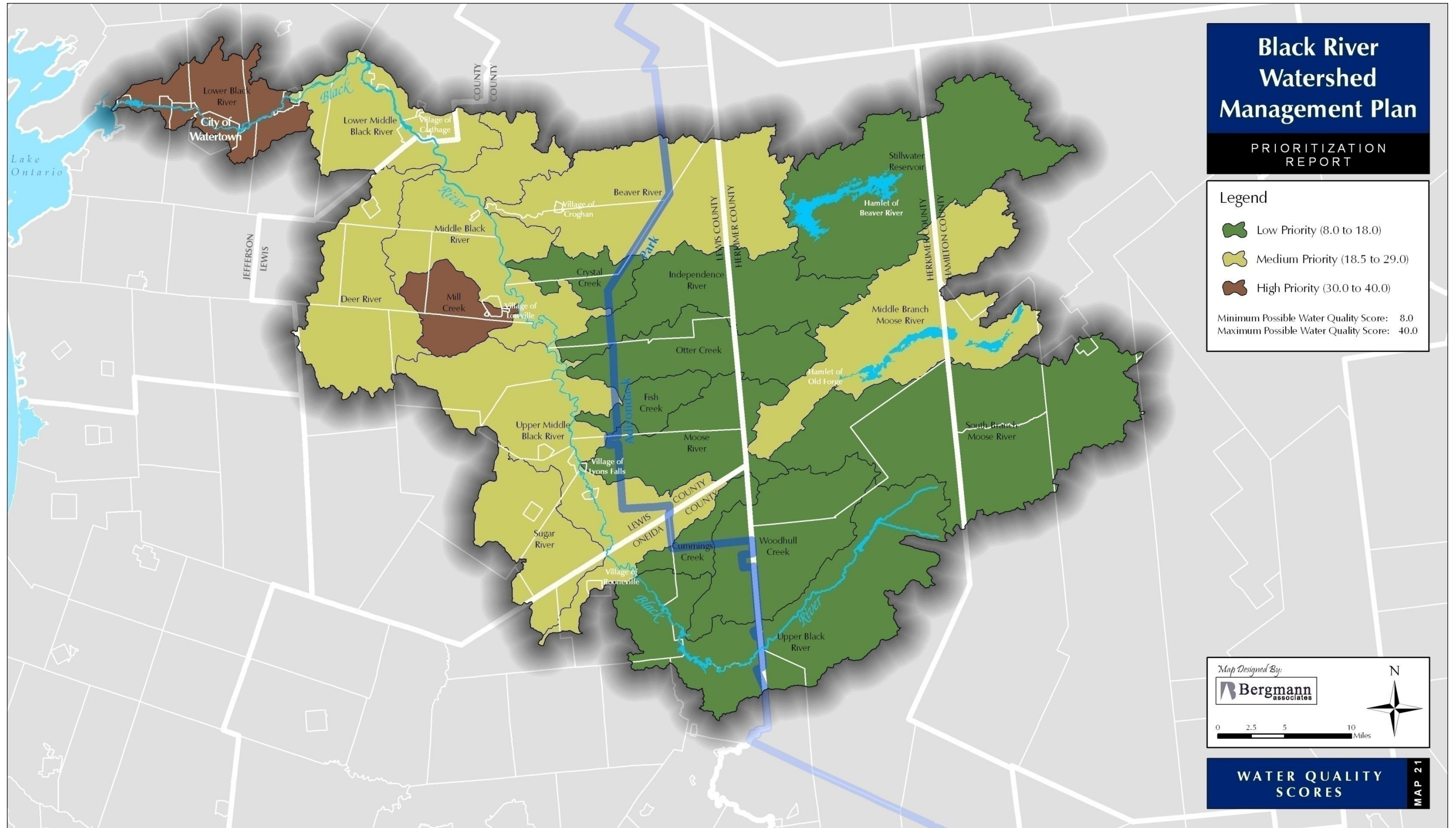
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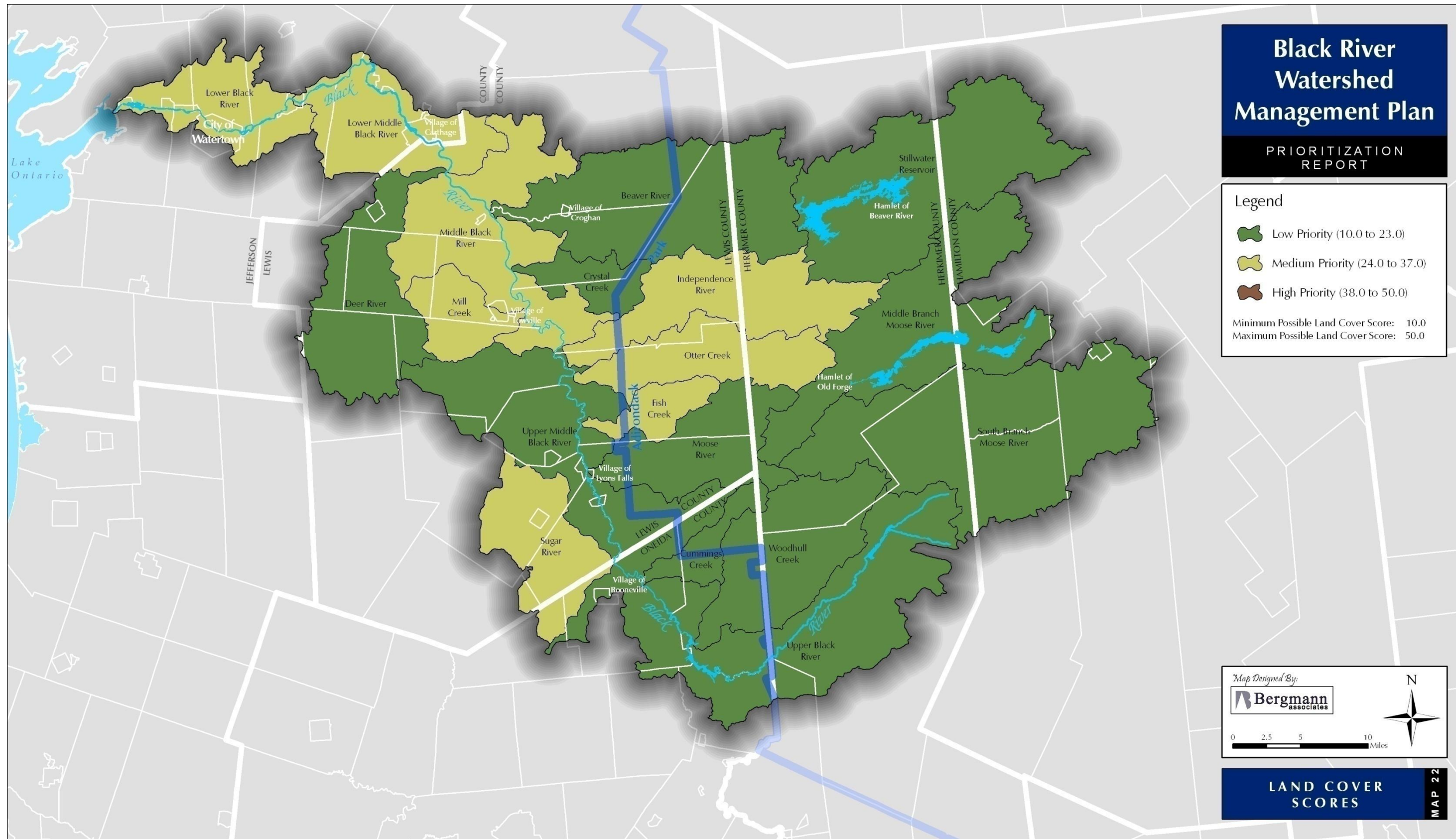
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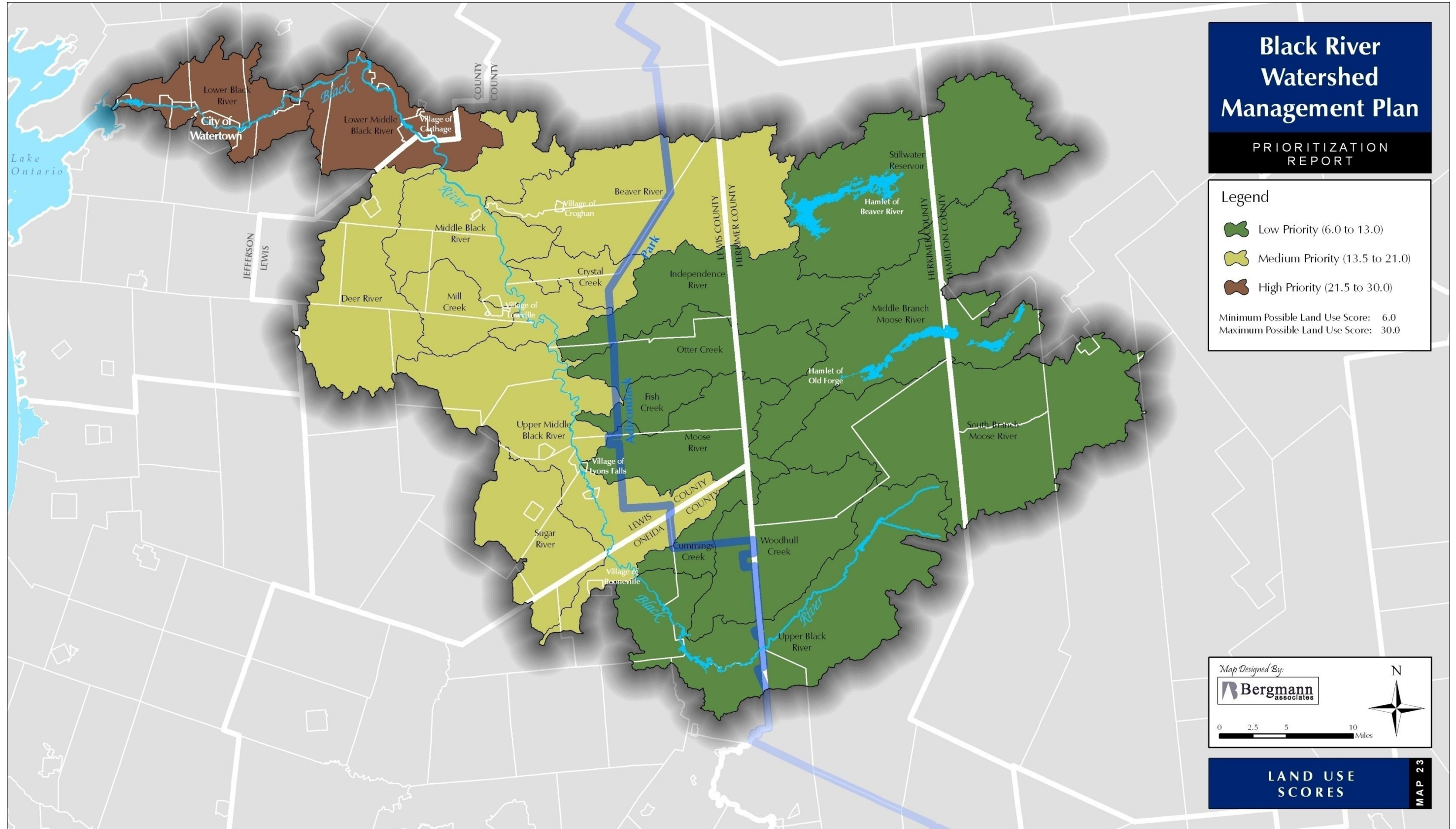
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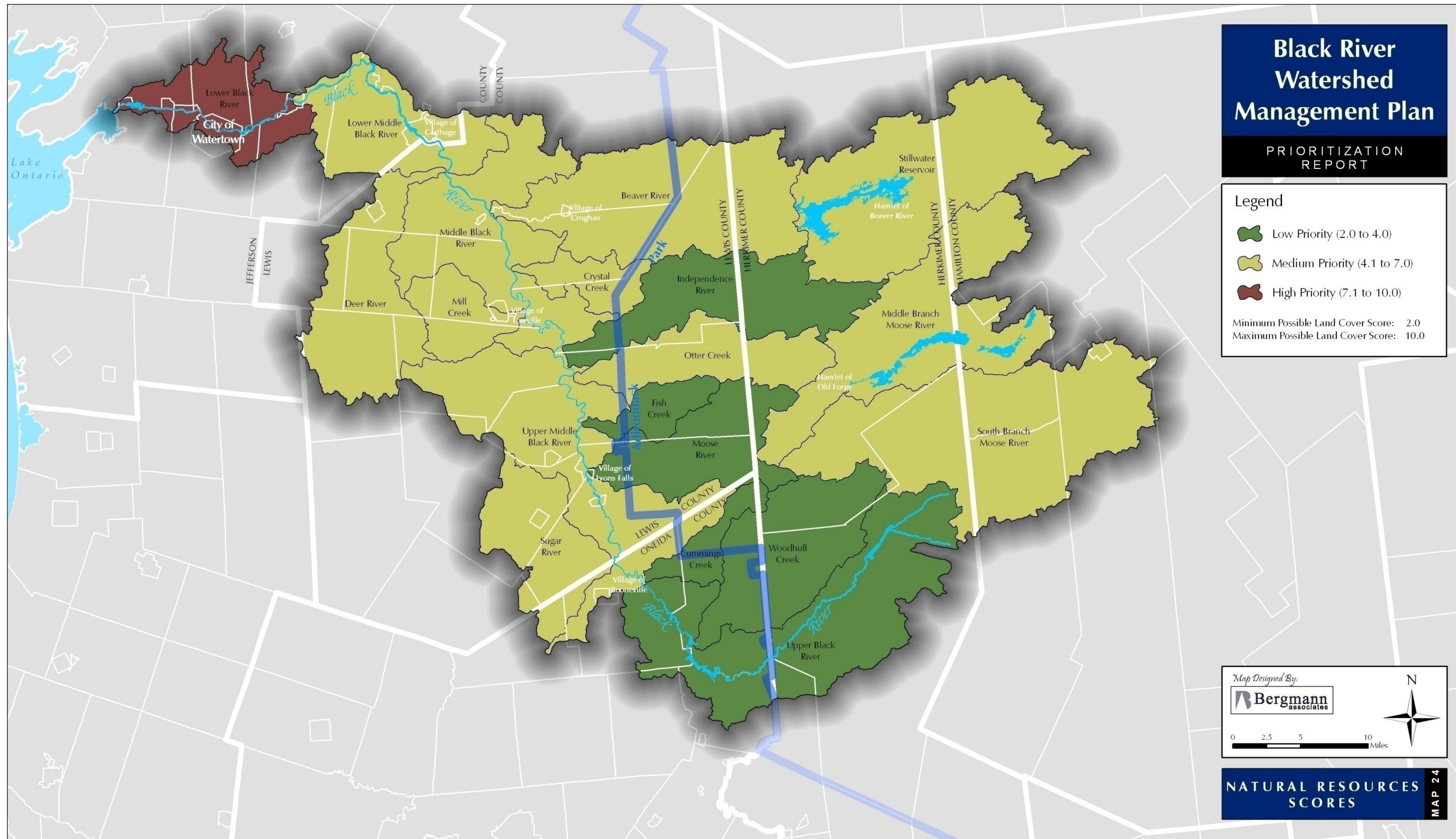
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8.3 Dams by Subwatershed

BEAVER RIVER SUBWATERSHED

The inventoried characteristics of the sixteen situated in the subwatershed are summarized in Table 8.3-1.

Table 8.3-1. Dams in the Beaver River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
FRANCIS LAKE DAM	LEWIS	125-0459	1917	TIMBER CR	RECREATION	4	STATE	D
PIETRIES MILL DAM	LEWIS	112-0404		TIMBER CR			PRIVATE	D
BEAVER MEADOW BROOK DAM	LEWIS	125-1124	1937	GRAVITY,EARTH	RECREATION	14	PRIVATE	A
BOISE CASCADE UPPER DAM	LEWIS	112-0324	1855	GRAVITY	HYDROELEC	25	PRIVATE	C
BOISE CASCADE LOWER DAM	LEWIS	112-0323	1865	GRAVITY	HYDROELEC	15	PRIVATE	B
MOSHIER DAM	HERKIMER	125-0831	1928	EARTH,GRAVITY	HYDROELEC	93	PRIVATE	C
CROGHAN DAM NORTH & SOUTH	LEWIS	112-0340	1919	GRAVITY	OTHER	12	PRIVATE	C
STEINERS MILL DAM	LEWIS	112-0356	1921	GRAVITY	HYDROELEC		PRIVATE	A
EAGLE FALLS DAM	LEWIS	125-0435	1914	GRAVITY	HYDROELEC	33	PRIVATE	B
CROGHAN RESERVOIR No. 2 DAM	LEWIS	112-5100		CONCRETE	WTR SUPPLY	7	LOCAL G'VT	A
SOFT MAPLE TERMINAL DAM	LEWIS	125-0424	1924	EARTH,GRAVITY	HYDROELEC	120	PRIVATE	B
EFFLEY FALLS DAM	LEWIS	112-0393	1903	GRAVITY	HYDROELEC	32	PRIVATE	A
HIGH FALLS DAM	LEWIS	112-0345	1925	GRAVITY	HYDROELEC	55	PRIVATE	C
BELFORT DAM	LEWIS	112-0370	1898	GRAVITY	HYDROELEC	19	PRIVATE	A
ELMER FALLS DAM	LEWIS	112-0388	1915	GRAVITY	HYDROELEC	23	PRIVATE	A
TAYLORVILLE DAM	LEWIS	112-0380	1914	GRAVITY	HYDROELEC	33	PRIVATE	A

Most, all but two, of the dams are in private hands. The Croghan Reservoir No. 2 Dam in Lewis County is owned by a local government and the Francis Lake Dam in Lewis County is owned by the New York State. Two of the sixteen dams are of significant height. The Soft Maple Terminal dam in Lewis County is 120 feet in height and the Moshier Dam in Herkimer County is 93 feet in height. All of the dams in the subwatershed are over fifty years old. Four of them are over one hundred years old and all four are situated in Lewis County. The Boise Cascade Upper Dam is one hundred fifty four years old, the Boise Cascade Lower Dam is one hundred forty four years old, the Belfort Dam is

one hundred eleven years old, and the Effley Falls Dam is one hundred six years old. The four dams classified as High Hazard are the Boise Cascade Upper Dam in Lewis County, the Moshier Dam in Herkimer County, the Croghan Dam North and South in Lewis County, and the High Falls Dam also in Lewis County. Two of the dams located in the subwatershed are classified as No Hazard: the Francis Lake Dam and the Pietries Mill Dam, both in Lewis County.

CRYSTAL CREEK SUBWATERSHED

The inventoried characteristics of the five dams situated in the subwatershed are summarized in Table 8.3.2.

Table 8.3-2. Dams in the Crystal Creek Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
PASSENGERS POND DAM	LEWIS	112-2757	1959	GRAVITY	RECREATION	9	PRIVATE	A
LOWVILLE RESERVOIR DAM	LEWIS	112-5098			WTR SUPPLY	10	LOCAL G'VT	A
SASH & BLIND MILL DAM	LEWIS	112-0319		MASONRY, TIMBER CR		6	PRIVATE	D
CRYSTAL CREEK DAM	LEWIS	112-0325	1840	MASONRY, GRAVITY	RECREATION	12	PRIVATE	A
CRYSTAL LAKE DIKE	LEWIS	112-4571		EARTH	RECREATION, HYDROELEC	12	PRIVATE	A

All but one of the dams are in private hands. The Lowville Reservoir Dam in Lewis County is owned by a local government. None of the five dams are of significant height. The Passengers Pond Dam is fifty years old and the Crystal Creek Dam is one hundred sixty nine years old. All but one of the dams is classified as Low Hazard. The Sash and Blind Mill Dam in Lewis County is classified as a No Hazard.

CUMMINGS CREEK SUBWATERSHED

The inventoried characteristics of the five dams situated in the subwatershed are summarized in Table 8.3.3.

Table 8.3-3. Dams in the Cummings Creek Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
PASSENGERS POND DAM	LEWIS	112-2757	1959	GRAVITY	RECREATION	9	PRIVATE	A
LOWVILLE RESERVOIR DAM	LEWIS	112-5098			WTR SUPPLY	10	LOCAL G'VT	A
SASH & BLIND MILL DAM	LEWIS	112-0319		MASONRY, TIMBER CR		6	PRIVATE	D
CRYSTAL CREEK DAM	LEWIS	112-0325	1840	MASONRY, GRAVITY	RECREATION	12	PRIVATE	A
CRYSTAL LAKE DIKE	LEWIS	112-4571		EARTH	RECREATION, HYDROELEC	12	PRIVATE	A

All five of the dams are located in Oneida County. All but one are privately owned. The Otter Lake Dam is owned by the New York State. Three of the five dams are older than fifty years and one of them is older than one hundred years. The Otter Lake Dam is one hundred twenty nine years old, the Anglers Club Pond Dam is ninety two years old, and the Long Lake Dam is seventy eight years old. All, except one, of the dams are classified as Low Hazard. The Utica YMCA Dam is classified as No Hazard.

DEER RIVER SUBWATERSHED

The inventoried characteristics of the sixteen dams situated in the subwatershed are summarized in Table 8.3-4.

Table 8.3-4. Dams in the Deer River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
WILLIAM J TUCKER DAM	LEWIS	101-0244	1910	EARTH	RECREATION	7	PRIVATE	A
PERRIGO CREEK DAM	LEWIS	090-0236	1916	TIMBER CR	HYDROELEC	7	PRIVATE	A
SEARS POND DAM	LEWIS	101-0246	1880	TIMBER CR	RECREATION	6	STATE	D
MARCELLUS MILL DAM	LEWIS	101-0239	1880	TIMBER CR	HYDROELEC		PRIVATE	A
MILLARD POND DAM	LEWIS	100-4231	1975	EARTH	RECREATION	9	PRIVATE	A
UNKURT DAM	LEWIS	100-5292		EARTH	RECREATION	8	PRIVATE	A
MILLARD & RICE DAM	LEWIS	089-0218					PRIVATE	D
H FARRINGTON YOUNG POND DAM	LEWIS	100-2743	1958	EARTH	RECREATION	11	PRIVATE	A
BIRCH WILDLIFE POND DAM No. 2	LEWIS	089-2658	1958	EARTH	RECREATION	6	PRIVATE	A
NYS DEC MARSH DAM	LEWIS	089-1718	1952	EARTH	FIRE/STOCK	7	STATE	A
NEIL BURNS MARSH DAM	LEWIS	100-2190	1954	EARTH	RECREATION	7	PRIVATE	A
COPENHAGEN DAM	LEWIS	100-0210	1920	TIMBER CR	IRRIGATION	10	LOCAL G'VT	D
HIGH FALLS DAM AT COPENHAGEN	LEWIS	100-0211	1909	GRAVITY	HYDROELEC	25	PRIVATE	B
MURROCK MARSH DAM	LEWIS	100-1850	1953	EARTH	RECREATION	5	PRIVATE	A
KINGS FALLS DAM	LEWIS	100-4951	1989	OTHER	HYDROELEC	12	PRIVATE	A
DEER RIVER VILLAGE DAM	LEWIS	100-0233	1918	TIMBER CR	HYDROELEC		PRIVATE	A

All but three of the sixteen dams are privately owned. All sixteen are located in Lewis County. Two, the Sears Pond Dam and the NYS DEC Marsh Dam, are owned by the New York. The Copenhagen Dam is owned by a local government. Twelve of the sixteen dams are over fifty years old and three of them are more than one hundred years old. The Sears Pond Dam and the Marcellus Mill Dam both completed in 1880 are the oldest structures. The High Falls Dam at Copenhagen is 25 feet in height making it the tallest dam in the sub-watershed. Three of the sixteen dams are classified as No Hazard. They included the Sears Pond Dam, the Millard and Rice Dam, and the Copenhagen Dam. Thirteen of the remaining dams are classified as Low Hazard. The High Falls Dam at Copenhagen is classified as Moderate Hazard.

FISH CREEK SUBWATERSHED

The inventoried characteristics of the three dams situated in the subwatershed are summarized in Table 8.3-5.

Table 8.3-5. Dams in the Fish Creek Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
ADIRONDACK ACRES DAM A	LEWIS	113-3956A	1971	EARTH	RECREATION	24	PRIVATE	B
ADIRONDACK ACRES DAM B	LEWIS	113-3956B	1971	EARTH	RECREATION	6	PRIVATE	A
BRANTINGHAM LAKE DAM	LEWIS	113-0444	1914	EARTH	RECREATION	10	PRIVATE	A

All three of the dams are situated in Lewis County and are in private hands. One dam is over fifty years old; the Brantingham Lake Dam is the oldest having reached its ninety fifth anniversary. The Adirondack Acres Dam A, at 24 feet in height, is the tallest dam in the subwatershed. Both, the Adirondack Acres Dam B and the Brantingham Lake Dam are classified as Low Hazard, while the Adirondack Acres Dam A is classified as a Moderate Hazard.

INDEPENDENCE RIVER SUBWATERSHED

The inventoried characteristics of the four dams situated in the subwatershed are summarized in Table 8.3-6.

Table 8.3-6. Dams in the Independence River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
MILLARD POND No. 2 DAM	LEWIS	113-4404	1980	EARTH	RECREATION	16	PRIVATE	D
KENNETH CLARK POND DAM	LEWIS	112-1118	1937	EARTH		18	PRIVATE	D
CHASE LAKE DAM	LEWIS	112-4348					PRIVATE	A
BEACH MILL DAM	LEWIS	112-0409	1860	TIMBER CR		10		D

All of the four dams within in the subwatershed are in private hands. Only two of the dams are over fifty years old. The Kenneth Clark Pond Dam is seventy two years old and the Beach Mill Dam is one hundred forty nine years old. All, except one, of the dams are classified as No Hazard. The Chase Lake Dam is classified as Low Hazard dam.

LOWER BLACK RIVER SUBWATERSHED

The inventoried characteristics of the eighteen dams situated in the subwatershed are summarized in Table 8.3-7.

Table 8.3-7. Dams in the Lower Black River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
SEWALLS SOUTH CHANNEL DAM	JEFFERSON	089-0087	1978	GRAVITY	HYDROELEC	16	PRIVATE	B
BEEBEE ISLAND MAIN DAM	JEFFERSON	089-3266	1964	GRAVITY	HYDROELEC	18	PRIVATE	B
UPPER NORTH CHANNEL DAM	JEFFERSON	089-1303	1948	GRAVITY	HYDROELEC	24	PRIVATE	B
BEEBEE ISLAND DIVERSION DAM	JEFFERSON	089-1317	1931	MASONRY	HYDROELEC, OTHER	22	PRIVATE	B
DEXTER SOUTH CHANNEL DAM	JEFFERSON	078-0018	1924	GRAVITY	HYDROELEC	18	PRIVATE	B
DELANO ISLAND DIVERSION DAM	JEFFERSON	089-0106A	1923	GRAVITY	HYDROELEC	12	LOCAL GOVERNMENT	A
DEXTER NORTH CHANNEL DAM	JEFFERSON	078-0016	1923	GRAVITY	HYDROELEC	20	PRIVATE	A
BLACK RIVER POWER DAM	JEFFERSON	088-0128	1919	GRAVITY, EARTH	HYDROELEC	34	PRIVATE	B
WATERTOWN DOSING STATION DAM	JEFFERSON	089-0108	1917	GRAVITY	WTR SUPPLY	10	LOCAL GOVERNMENT	A
FACTORY SQUARE DAM	JEFFERSON	089-0086	1914	GRAVITY	HYDROELEC	20	PRIVATE	A
DIAMOND ISLAND DIVERSION DAM	JEFFERSON	089-0095	1914	GRAVITY	HYDROELEC	13	PUBLIC UTILITY	A
WATERTOWN MUNICIPAL POWER DAM	JEFFERSON	089-0106	1913	GRAVITY	HYDROELEC	12	LOCAL GOVERNMENT	B
DEXTER DAM	JEFFERSON	078-0015	1908	GRAVITY	HYDROELEC	15	PRIVATE	D
BROWNVILLE DAM	JEFFERSON	088-0043	1903	TIMBER CR	HYDROELEC	16	PRIVATE	D
PUMP HOUSE DAM	JEFFERSON	089-0106B	1895	GRAVITY	OTHER	16	LOCAL GOVERNMENT	A
GLEN PARK MILL C DAM	JEFFERSON	089-3375	1885	TIMBER CR, MASONRY			PRIVATE	D
DEXTER MIDDLE CHANNEL DAM	JEFFERSON	078-0017	1884	GRAVITY	HYDROELEC	8	PRIVATE	A
WATERTOWN SETTLING BASIN DAM	JEFFERSON	089-0107		GRAVITY	OTHER		LOCAL GOVERNMENT	A

All eighteen of the dams are located in Jefferson County. Twelve of the eighteen dams are privately held, five are owned by local governments, and only one is owned by a public utility. The oldest dam is the Dexter Middle Channel Dam which is one hundred twenty five years old. The tallest of these dams is the Black River Power Dam which is thirty four feet in height. There are a variety of hazard classifications associated with this subwatershed. Eight of the dams are classified as Low Hazard, seven are classified as Moderate Hazard, and the remaining three are classified as No Hazard.

LOWER MIDDLE BLACK RIVER SUBWATERSHED

The inventoried characteristics of the twelve dams situated in the subwatershed are summarized in Table 8.3 -8.

Table 8.3-8. Dams in the Lower Middle Black River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
PLEASANT LAKE DAM	JEFFERSON	100-4580		GRAVITY	WTR SUPPLY	5	LOCAL G'VT	A
LONG FALLS DAM	JEFFERSON	100-4632		TIMBER CR	HYDROELEC	10	PRIVATE	A
CARTHAGE STATE DAM	JEFFERSON	100-0231	1854	GRAVITY	NAVIGATION	8	STATE	A
LEFEBVRE MILL DAM	JEFFERSON	099-0165	1910	GRAVITY	HYDROELEC		PRIVATE	A
TANNERY ISLAND DAM	JEFFERSON	100-0229	1914	GRAVITY	HYDROELEC	15	PRIVATE	A
WEST END DAM	JEFFERSON	100-0227	1914	GRAVITY	HYDROELEC, OTHER	18	PRIVATE	A
VILLAGE OF CARTHAGE POOL DAM	JEFFERSON	100-1564	1952	EARTH	RECREATION	11	LOCAL G'VT	A
FELTS MILLS DAM	JEFFERSON	088-0147	1915	GRAVITY	HYDROELEC	20	PRIVATE	B
HERRINGS DAM	JEFFERSON	099-0206	1923	GRAVITY	HYDROELEC	25	PRIVATE	B
DEFERIET DAM	JEFFERSON	099-0195	1925	BUTTRESS, GRAVITY	HYDROELEC	24	PRIVATE	B
KAMARGO DAM	JEFFERSON	088-0133	1984	GRAVITY, BUTTRESS	HYDROELEC	34	PRIVATE	B
FELTS MILLS DIVERSION DAM	JEFFERSON	088-1736	1980	GRAVITY	HYDROELEC	47	PRIVATE	D

All twelve of the dams are located in Jefferson County. Nine of them are privately owned. The Pleasant Lake Dam and the Village of Carthage Pool Dam is owned by local governments. The Carthage State Dam is owned by the New York State. The Carthage State Dam oldest Dam also is the oldest of the dams at one hundred and fifty five years old. The Felts Mills Diversion Dam is the tallest measuring 47 feet in height. Seven of the twelve dams are classified as Low Hazard.

MIDDLE BRANCH MOOSE RIVER SUBWATERSHED

The inventoried characteristics of the six dams situated in the subwatershed are summarized in Table 8.3-9.

Table 8.3-9. Dams in the Middle Branch Moose River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
LAKE SERENE DAM	HERKIMER	140-4781	1982	EARTH	RECREATION	8	PRIVATE	D
THENDARA DAM	HERKIMER	126-4042	1980	GRAVITY, TIMBER CR	RECREATION	12	LOCAL GOVERNMENT	A
RONDAXE LAKE DAM	HERKIMER	139-1130	1937	ROCKFILL, TIMBER CR	RECREATION	5	PRIVATE	A
SIXTH LAKE DAM	HAMILTON	140-0860	1920	EARTH	RECREATION	16	STATE	C
OLD FORGE RESERVOIR DAM	HERKIMER	140-2000	1905	GRAVITY,EARTH	FLOOD CTRL, RECREATION	18	STATE	B
BIG MOOSE LAKE DAM	HERKIMER	139-4678		TIMBER CR	RECREATION	2	PRIVATE	

Three of the six dams are in private hands, two are owned by the New York State, and one, the Thendara Dam in Herkimer County, is owned by a local government. Three of them are over fifty years old. The Rondaxe Lake dam is seventy two years old, the Sixth Lake Dam is eighty nine years old, and the Old Forge Reservoir Dam is one hundred four years old. The Sixth Lake Dam is classified as High Hazard and the Lake Serene Dam is classified as No Hazard.

MIDDLE BLACK RIVER SUBWATERSHED

The inventoried characteristics of the three dams situated in the subwatershed are summarized in Table 8.3-10.

Table 8.3-10. Dams in the Middle Black River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
GLENN CREEK DAM	LEWIS	112-0373	1924	GRAVITY			PRIVATE	A
C HARRY EDICK POND DAM	LEWIS	112-3136	1963	EARTH	RECREATION	9	PRIVATE	A
WILERS MILL DAM	LEWIS	112-0377	1916	GRAVITY, EARTH			PRIVATE	A

All three of the dams are in private hands and are located in Lewis County. Only two of them are older than fifty years, the Glenn Creek Dam is eighty five years old and the Wilers Mill Dam is ninety three years old. All three are classified as a Low Hazard type dam.

MILL CREEK SUBWATERSHED

The inventoried characteristics of the three dams situated in the subwatershed are summarized in Table 8.3-11.

Table 8.3-11. Dams in the Mill Creek Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
JEFFREY BEYER DAM	LEWIS	100-5245	1988	EARTH	WILDLIFE	16	PRIVATE	A
NOHLES MILL DAM	LEWIS	112-0320	1907	TIMBER CR	HYDROELEC		PRIVATE	A
EDWARD C YANCEY POND DAM	LEWIS	100-3001	1961	EARTH	RECREATION	13	PRIVATE	A

All three of the dams are privately owned and also are located in Lewis County. The Nohles Mill Dam is the oldest dam at one hundred two years old. All three of the dams are classified as a Low Hazard type dam.

MOOSE RIVER SUBWATERSHED

The inventoried characteristics of the seven dams situated in the subwatershed are summarized in Table 8.3-12.

Table 8.3-12. Dams in the Moose River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
LEON SCHUTT DAM	ONEIDA	126-4440		EARTH	RECREATION	10	PRIVATE	A
GOULDTOWN MILL No. 5 DAM	LEWIS	113-0445	1978	GRAVITY, TIMBER CR	HYDROELEC	19	PRIVATE	A
KOSTERVILLE LOWER DAM	LEWIS	113-0446	1982	TIMBER CR, GRAVITY	HYDROELEC	8	PRIVATE	A
KOSTERVILLE UPPER DAM	LEWIS	113-0447	1885	TIMBER CR	IRRIGATION	10	PRIVATE	D
LYONSDALE DAM	LEWIS	113-1052	1845	GRAVITY	HYDROELEC	19	PRIVATE	A
S L MEDA FISH POND DAM	LEWIS	113-1017	1934	GRAVITY		15	PRIVATE	A
JOHN TEAL RECREATIONAL POND DAM	LEWIS	126-4085	1973	EARTH	RECREATION	8	PRIVATE	A

All seven of the dams are in private hands and all, except one, are located in Lewis County. The Leon Schutt Dam is located in Oneida County. Three of the dams are older than fifty years and two of the three are older than one hundred years. The S L Meda Fish Pond Dam is seventy five years old, the Kosterville Upper Dam is one hundred twenty four years old, and the Lyonsdale Dam is one hundred sixty four years old. Two dams, the Gouldtown Mill No. 5 Dam and the Lyonsdale Dam,

are the tallest of the seven measuring nineteen feet in height. The Kosterville Upper Dam is the only one classified as No Hazard in the subwatershed.

OTTER CREEK SUBWATERSHED

The inventoried characteristics of the three dams situated in the subwatershed are summarized in Table 8.4-13.

Table 8.3-13. Dams in the Otter Creek Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
OTTER CREEK POND DAM	LEWIS	113-0395	1925	ROCKFILL	RECREATION		PRIVATE	D
BIG OTTER LAKE DAM	LEWIS	126-0495	1873	TIMBER CR		8		D
OTTER CREEK DAM	LEWIS	113-0397	1907	MASONRY	HYDROELEC	52	PRIVATE	A

Two of the three dams are privately owned. The Big Otter Lake Dam does not have an owner type recorded for this inventory. All three are situated in Lewis County and also have progressed in years. The Otter Creek Pond Dam is eighty four years old, the Otter Creek Dam is one hundred two years old, and the Big Otter Lake Dam is one hundred thirty six years old. Not only is the Otter Creek Dam the oldest dam in the subwatershed, it also is the tallest measuring 52 feet in height. The Otter Creek Dam and the Big Otter Lake Dam are classified as No Hazard type, while the Otter Creek Dam is listed as Low Hazard.

SOUTH BRANCH MOOSE RIVER SUBWATERSHED

The inventoried characteristics of the four dams situated in the subwatershed are summarized in Table 8.4-14.

Table 8.3-14. Dams in the South Branch Moose River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
LITTLE MOOSE LAKE DAM	HERKIMER	140-0602	1900	MASONRY	RECREATION	2	PRIVATE	A
JOSLYN'S DAM	HERKIMER	140-0626	1900	TIMBER CR	RECREATION	14	PRIVATE	A
LEE POND DAM	HAMILTON	140-5688		EARTH	WILDLIFE, FIRE/STOCK	15	PRIVATE	A
LAKE KORA DAM	HAMILTON	155-2251	1977	GRAVITY	RECREATION	25	PRIVATE	A

All four of the dams are in private hands. Two of the dams, the Little Moose Lake Dam and the Joslyn's Dam, are located in Herkimer County. The other two dams, the Lee Pond Dam and the Lake Kora Dam, are located in Hamilton County. Two of the four dams, the Little Moose Lake Dam

and the Joslyn's Dam, are both one hundred nine years old. The Lake Kora Dam is the tallest measuring 25 feet in height. All four are classified as Low Hazard.

STILLWATER RESERVOIR SUBWATERSHED

The inventoried characteristics of the three dams situated in the subwatershed are summarized in Table 8.3-15.

Table 8.3-15 Dams in the Stillwater Reservoir Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
WOODS LAKE DAM	HERKIMER	139-4677		EARTH, TIMBER CR	RECREATION	3	PRIVATE	A
STILLWATER RESERVOIR DAM	HERKIMER	125-0517	1924	EARTH	FLOOD CTRL, HYDROELEC	55	STATE	C
SHINGLE SHANTY POND DAM	HAMILTON	139-4652		EARTH, TIMBER CR	RECREATION	2	PRIVATE	A

All but one of the three dams are in private hands. The Stillwater Reservoir Dam in Herkimer County is owned by the New York State. This dam also is the tallest of the three measuring 55 feet in height and also is the only dam classified as High Hazard. The other two, the Woods Lake Dam in Herkimer County and the Shingle Shanty Pond Dam in Hamilton County, are classified as Low Hazard.

SUGAR RIVER SUBWATERSHED

The inventoried characteristics of the two dams situated in the subwatershed are summarized in Table 8.3-16.

Table 8.3-16 Dams in the Sugar River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
CONSTABLEVILLE DAM	LEWIS	113-0423		CONCRETE	WTR SUPPLY	20	LOCAL G'VT	A
LLOYD AKIN DAM	LEWIS	113-4255	1975	EARTH	RECREATION	20	PRIVATE	D

Both of the dams are located in Lewis County. The Constableville Dam is owned by a local government, while the Lloyd Akin Dam is privately owned. Both of the dams measure 20 feet in height. The Constableville Dam is a Low Hazard type dam and the Lloyd Akin Dam is classified as a No Hazard type dam.

UPPER BLACK RIVER SUBWATERSHED

The inventoried characteristics of the 31 dams situated in the subwatershed are summarized in Table 8.3-17.

Table 8.3-17. Dams in the Upper Black River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
JONES POND DAM	ONEIDA	127-0645	1925	EARTH	RECREATION, WTR SUPPLY		PRIVATE	A
BROWN DAM	ONEIDA	127-0646	1913	BUTTRESS		10	PRIVATE	A
DAVIS DAM C	ONEIDA	127-0630C	1895	GRAVITY		8	PRIVATE	A
DAVIS DAM E	ONEIDA	127-0630E	1913	CONCRETE, EARTH	RECREATION	12	PRIVATE	D
DAVIS DAM D	ONEIDA	127-0630D	1913	EARTH		10	PRIVATE	A
LAKE JULIA DAM	ONEIDA	127-0639	1907	TIMBER CR			PRIVATE	A
EVANS POND DAM	ONEIDA	127-0631	1892	EARTH		10	PRIVATE	A
JONES POND DAM	ONEIDA	127-0621	1924	EARTH	RECREATION		PRIVATE	A
MAPLE LAKE DAM	HERKIMER	127-0636	1905	EARTH	RECREATION	12	PRIVATE	A
RINKLE FISH POND DAM	ONEIDA	114-0570	1926	GRAVITY			PRIVATE	A
GARLICK DAM	ONEIDA	177-0576	1907	BUTTRESS		7	PRIVATE	A
CHARLES DAVIS POND DAM	ONEIDA	127-1110	1937	EARTH, GRAVITY		10	PRIVATE	A
GARLICK FARM DAM	ONEIDA	127-0575	1913	GRAVITY		6	PRIVATE	D
RICE DAM	ONEIDA	127-0574	1907	BUTTRESS	RECREATION		PRIVATE	A
KAYUTA LAKE DAM	ONEIDA	127-0580	1885	EARTH, TIMBER CR	HYDROELEC, FLOOD CTRL, RECREATION	23	STATE	B
ALDER POND DAM	ONEIDA	127-4417	1850	EARTH	HYDROELEC, NAVIGATION	15	STATE	C
LITTLE BEAVER LAKE DAM	ONEIDA	127-4748	1981	BUTTRESS	RECREATION	3	PRIVATE	A
GRIST MILL DAM	ONEIDA	127-0571	1855	GRAVITY, TIMBER CR			PRIVATE	D
FORESTPORT RESERVOIR DAM	ONEIDA	127-0572	1904	EARTH, OTHER	HYDROELEC, FLOOD CTRL, RECREATION	27	STATE	B
MILTON WISNIEWSKI WILDLIFE MARSH DAM	ONEIDA	114-2453	1956	EARTH		10	PRIVATE	A
JOHN GILBERT JR POND DAM	ONEIDA	114-1034	1965	EARTH		6	PRIVATE	A

KERNAN POND DAM	ONEIDA	127-4288	1979	EARTH	RECREATION	19	PRIVATE	A
JOSEPH BEATON DAM	ONEIDA	127-4232	1980	EARTH	RECREATION	17	PRIVATE	A
SEITER DAM	ONEIDA	114-0530	1903	TIMBER CR			PRIVATE	D
FORESTPORT RESERVOIR DAM	ONEIDA	127-0563	1912	BUTTRESS	WTR SUPPLY	7	LOCAL G'VT	A
HAYES DAM	ONEIDA	114-0522	1895	EARTH		10	PRIVATE	D
HAWKINSVILLE DAM	ONEIDA	114-0521	1915	GRAVITY	RECREATION	18	STATE	B
SOUTH LAKE DAM	HERKIMER	140-0682	1901	EARTH	NAVIGATION	30	STATE	A
NORTH LAKE A DAM (SPILLWAY)	HERKIMER	140-0648A	1850	EARTH	NAVIGATION	15	STATE	A
NORTH LAKE C DAM	HERKIMER	140-0648C	1850	EARTH	NAVIGATION	27	STATE	A
NORTH LAKE B DAM	HERKIMER	140-0648B	1850	EARTH	NAVIGATION	35	STATE	A

Twenty two of the thirty one dams are in private hands. Eight of the dams are owned by the New York State and only one, the Forestport Reservoir Dam in Oneida County, is owned by a local government. The tallest is the North Lake B Dam which measures 35 feet in height. Four of the dams, the Alder Pond Dam, the North Lake A Dam, the North Lake B Dam, and the North Lake C Dam, hold the record as being the oldest dams in the subwatershed at one hundred and fifty nine years old. The Alder Pond Dam is the only dam to be classified as High Hazard. There are five dams that are classified as No Hazard; the Grist Mill Dam, the Hayes Dam, the Seiter Dam, the Garlick Farm Dam, and the Davis Dam E.

UPPER MIDDLE BLACK RIVER SUBWATERSHED

The inventoried characteristics of the 27 dams situated in the subwatershed are summarized in Table 8.3-18.

Table 8.3-18. Dams in the Upper Middle Black River Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
PORT LEYDEN UPPER DAM	LEWIS	113-0456	1984	GRAVITY	HYDROELEC	10	PRIVATE	A
RICHARD TROMBLEY POND DAM	LEWIS	113-4246	1976	EARTH	RECREATION	12	PRIVATE	A
TURIN RECREATION POND DAM	LEWIS	113-4744	1975	EARTH	RECREATION	14	LOCAL G'VT	A
BELA JACKSON FARM POND DAM	ONEIDA	114-1341	1949	EARTH	FIRE/STOCK, RECREATION	7	PRIVATE	A
FREDERIC MARCY POND DAM	ONEIDA	114-1281	1947	BUTTRESS	RECREATION	3	PRIVATE	A
ROARING BROOK DAM	LEWIS	101-0929	1931	EARTH	RECREATION	7	PRIVATE	A

VILLAGE OF TURIN WATER SUPPLY DAM	LEWIS	113-0394	1922	BUTTRESS		2	LOCAL G'VT	A
LYONS FALLS MILL 3 DAM	LEWIS	113-0436	1920	GRAVITY	HYDROELEC	11	PRIVATE	A
PORT LEYDEN POWER DAM	LEWIS	113-0456A	1914	EARTH	RECREATION	9	PRIVATE	A
CAPROLL DAM	ONEIDA	114-0500H	1913	GRAVITY	HYDROELEC		PRIVATE	A
PORT LEYDEN WATER SUPPLY DAM	LEWIS	113-0478	1912	EARTH	WTR SUPPLY	8	LOCAL G'VT	A
GRIEG DAM	LEWIS	113-0408	1902	TIMBER CR, MASONRY	RECREATION		PRIVATE	A
GLENDALE MILL DAM	LEWIS	113-0371	1875	MASONRY	HYDROELEC		PRIVATE	A
KEARNS MILL DAM	LEWIS	113-0337	1870	TIMBER CR	HYDROELEC		PRIVATE	A
BOONVILLE ROD & GUN CLUB DAM	ONEIDA	126-1392		EARTH		10	PRIVATE	A
BUCK LAKE DAM	ONEIDA	126-4724		EARTH	RECREATION	12	PRIVATE	A
MILE CREEK DAM	ONEIDA	113-5395		MASONRY	RECREATION	13	PRIVATE	A
LYONS FALLS WATER SUPPLY DAM No. 4	LEWIS	113-0448		EARTH	WTR SUPPLY	15	LOCAL G'VT	A
PORT LEYDEN RESERVOIR DAM	LEWIS	113-0483		EARTH, CONCRETE	WTR SUPPLY	6	LOCAL G'VT	A
MARTINSBURG RESERVOIR DAM	LEWIS	113-0338		ROCKFILL	WTR SUPPLY	8	LOCAL G'VT	A
TERRY SMITH DAM	LEWIS	113-4827		EARTH	RECREATION	8	PRIVATE	A
PORT LEYDEN LOWER DAM	LEWIS	113-0453	1985	GRAVITY	HYDROELEC	24	PRIVATE	B
DENLEY DAM	LEWIS	113-0484	1913	GRAVITY	HYDROELEC	29	PRIVATE	B
TURIN RESERVOIR DAM	LEWIS	113-0399	1905	GRAVITY	WTR SUPPLY	25	LOCAL G'VT	B
WHETSTONE GULF STORAGE DAM	LEWIS	101-2862	1961	EARTH	FLOOD CTRL, RECREATION	23	STATE	C
OLEARY DAM	ONEIDA	114-0500O	1875	TIMBER CR			PRIVATE	D
LYMAN DAM	ONEIDA	114-0500P		MASONRY, TIMBER CR			PRIVATE	D

Nineteen of the twenty seven dams are privately owned. Seven of them are owned by a local government and only one, the Whetstone Gulf Storage Dam, is owned by the New York State. The Denley Dam is the tallest of the dams in this subwatershed, measuring 29 feet in height. The Kerns Mill Dam is the oldest of the dams at one hundred thirty nine years old. The Denley Dam is the tallest measuring 29 feet in height. The Whetstone Gulf Storage Dam is the only dam that is

classified as High Hazard. There are two dams, the Oleary Dam and the Lyman Dam, that are classified as a No Hazard type dam.

WOODHULL CREEK SUBWATERSHED

The inventoried characteristics of the seven dams situated in the subwatershed are summarized in Table 8.3-19.

Table 8.3-19. Dams in the Woodhull Creek Subwatershed

DAM NAME	COUNTY	STATE ID	YEAR COMPLETED	DAM TYPE	PURPOSE	DAM HEIGHT	OWNER TYPE	HAZARD CODE
SNOW BIRD LAKE DAM	ONEIDA	127-3769	1967	GRAVITY,EARTH	RECREATION	18	PRIVATE	A
WHITE LAKE OUTLET DAM No. 1	ONEIDA	126-0564	1917	BUTTRESS	RECREATION	5		A
SECOND BISBY LAKE DAM	HERKIMER	140-0615	1914	EARTH	RECREATION	8	PRIVATE	A
SAND LAKE DAM	HERKIMER	140-0610	1901	MASONRY	NAVIGATION, RECREATION	30	STATE	A
FORESTPORT STATION DAM	ONEIDA	127-0586	1901	EARTH	RECREATION	6		A
WHITE LAKE OUTLET DAM No. 2	ONEIDA	126-0556	1901	EARTH	RECREATION			A
WOODHULL LAKE DAM	HERKIMER	140-0605	1853	EARTH,OTHER	NAVIGATION, RECREATION	25	STATE	A
BISBY LAKE DAM No. 3	HERKIMER	140-0611		EARTH	RECREATION	6	PRIVATE	A
CHASE DAVIS DAM No. 2	ONEIDA	127-0816A	1929	EARTH,GRAVITY			PRIVATE	D
CHASE DAVIS DAM No. 1	ONEIDA	127-0603	1926	GRAVITY,EARTH		15	PRIVATE	D

Of the ten dams, only two, the Sand Lake Dam and the Woodhull Lake Dam, are recorded to be owned by the New York State; the rest are in private hands. The Sand Lake Dam also is the tallest measuring 30 feet in height. The Woodhull Lake Dam is the oldest dam at one hundred fifty six years old. Also, all the dams are classified are a Low Hazard type dam, except two of them. The Chase Davis Dam No. 1 and the Chase Davis Dam No. 2 are classified as No Hazard type dams.

8.4 Subwatershed Prioritization Factors

WATER QUALITY

Factors categorized as *Water Quality* received the highest weight (2) as they represent the existing water quality conditions within each subwatershed. The minimum score a subwatershed could receive under this category is 8; the maximum possible score is 40.

This category includes four factors:

- Total Nitrogen Loads;
- Total Phosphorus Loads;
- NYSDEC Impairment Listings; and
- NYSDEC TMDL Requirement.

A detailed discussion of each factor can be found below.

Total Nitrogen Loads

This factor measures the total nitrogen load for each subwatershed based on the results of the ArcView Generalized Watershed Loading Function (AVGWLF) model (see Section 2.5.4). Nitrogen was selected as a metric for prioritizing subwatersheds as large amounts of this nutrient can accelerate the eutrophication process of waterbodies, resulting in depleted dissolved oxygen, fish kills, offensive odors, unsightliness, and reduced attractiveness of the water for recreation and other public uses. Thus, those subwatersheds with larger total nitrogen loads are assumed be of lower quality and thus higher priority.

Table 8.4-1. Total Nitrogen Loads Scoring System

SCORING SCALE ¹	SCORE VALUE	WEIGHT VALUE	WEIGHTED SCORE
Greater than 3.24 kg per acre	5	2	10
1.62 to 3.24 kg per acre	4	2	8
0.81 to 1.62 kg per acre	3	2	6
0.40 to 0.81 kg per acre	2	2	4
Less than 0.40 kg per acre	1	2	2

Source: ArcView Generalized Watershed Loading Function (AVGWLF) model results for the Black River watershed

Values for each subwatershed range from 0.32 kilograms per acre to 4.16 kilograms per acre. Table 8.4-1 provides a detailed breakdown of the scoring system used for this factor. The uppermost threshold identified in Table 8.4-1 was based on total nitrogen load thresholds developed to assist in the identification of impaired watersheds in Pennsylvania and the northeastern United States (see Section 2.5.4).

Total Phosphorous Loads

This factor measures the total phosphorus load for each subwatershed based on the results of the AVGWLF model (see Section 2.5.4). Like nitrogen, phosphorus also accelerates the eutrophication process of waterbodies, resulting in depleted dissolved oxygen, fish kills, offensive odors, unsightliness, and reduced attractiveness of the water for recreation and other public uses. Thus, those subwatersheds with larger total phosphorus loads are assumed to be of lower quality and thus higher priority.

Values for each subwatershed range from 0.05 kilograms per acre to 0.22 kilograms per acre. Table 8.4-2 provides a detailed breakdown of the scoring system used for this factor. The uppermost threshold identified in Table 8.4-2 was based on total phosphorous load thresholds developed to assist in the identification of impaired watersheds in Pennsylvania and the northeastern United States (see Section 2.5.4).

Table 8.4-2. Total Phosphorus Loads Scoring System

SCORING SCALE ¹	SCORE VALUE	WEIGHT VALUE	WEIGHTED SCORE
Greater than 0.12 kg per acre	5	2	10
0.10 to 0.12 kg per acre	4	2	8
0.08 to 0.10 kg per acre	3	2	6
0.06 to 0.08 kg per acre	2	2	4
Less than 0.06 kg per acre	1	2	2

Source: ArcView Generalized Watershed Loading Function (AVGWLF) model results for the Black River watershed

NYSDEC Impairment Listings

This factor measures the degree of waterbody impairment according to the NYSDEC 2006 Waterbody Inventory/ Priority Waterbodies List. More specifically, this factor considers the percent of assessed streams categorized as *Impaired Waters*, *Waters with Minor Impacts*, *Waters Needing Verification*, and *Threatened Waters* for each subwatershed; subwatersheds with higher percentages of these categories are assumed be characterized by lower water quality. Values for each subwatershed range from 0.0 percent to 100 percent. Table 8.4-3 provides a detailed breakdown of the scoring system used for this factor.

Table 8.4-3. NYSDEC Impairment Listing Scoring System

SCORING SCALE	SCORE VALUE	WEIGHT VALUE	WEIGHTED SCORE
80.1 to 100.0 percent	5	2	10
60.1 to 80.0 percent	4	2	8
40.1 to 60.0 percent	3	2	6
20.1 to 40.0 percent	2	2	4
Less than 20.1 percent	1	2	2

Source: NYSDEC 2006 Waterbody Inventory/ Priority Waterbodies List Geographic Information System (GIS) data

NYSDEC TMDL Requirement

This factor takes into account whether any waterbodies within a particular subwatershed require that a Total Maximum Daily Load (TMDL) be established as provided in Parts 1 and 2b of the NYSDEC 2008 303(d) List. TMDLs establish maximum pollution limits for industrial wastewater dischargers and have been used extensively by the U.S. Environmental Protection Agency and state environmental agencies in implementing the Clean Water Act. Due to the inherent difficulty of resolving water quality issues related to atmospheric deposition, waters included on Part 2a of the NYSDEC 2008 303(d) List were not included in this factor. A more detailed discussion of atmospheric deposition can be found in Sections 2.5.4, 3.1.2, and 3.1.3. Table 8.4-4 provides a detailed breakdown of the scoring system used for this factor.

Table 8.4-4. NYSDEC TMDL Requirement Scoring System

SCORING SCALE	SCORE VALUE	WEIGHT VALUE	WEIGHTED SCORE
Waterbodies requiring TMDL present	5	2	10
No waterbodies require TMDL	1	2	2

Source: New York State Section 303(d) List of Impaired/TMDL Waters (2008)