



Savannah Harbor Expansion Project

Evaluation of Fishery Habitat Impacts with
Proposed Mitigation Plan

January 2010

Table of Contents

Introduction	1
Model Input	3
Output Presented	4
Results	4
Conclusions	7
References	8

Tables & Figures

Figure 1- Plan 6a	1
Figure 2- Plan 6b	2
Table 1- Model Input Conditions and Habitat Criteria	3
Table 2- Impacts to Habitat Suitability	6

Appendices

Appendix A- Habitat Suitability Figures

Appendix B- Habitat Suitability Tables (with Index Location Map)

Introduction

This report summarizes the results of fishery habitat impacts with implementation of the proposed mitigation plan to alter flows in the estuary at each alternative channel depth (44, 45, 46, 47 and 48 ft below MLLW). The two proposed plans are: Plan 6b for the 44 ft depth, and Plan 6a for the 45, 46, 47 and 48 ft depths. Details of each of the mitigation plans are shown in Figures 1 and 2. For details on how these plans were developed and selected, please see the main report document for this project.

Figure 1: Plan 6a (proposed mitigation for 45, 46, 47 and 48 ft channel depths)

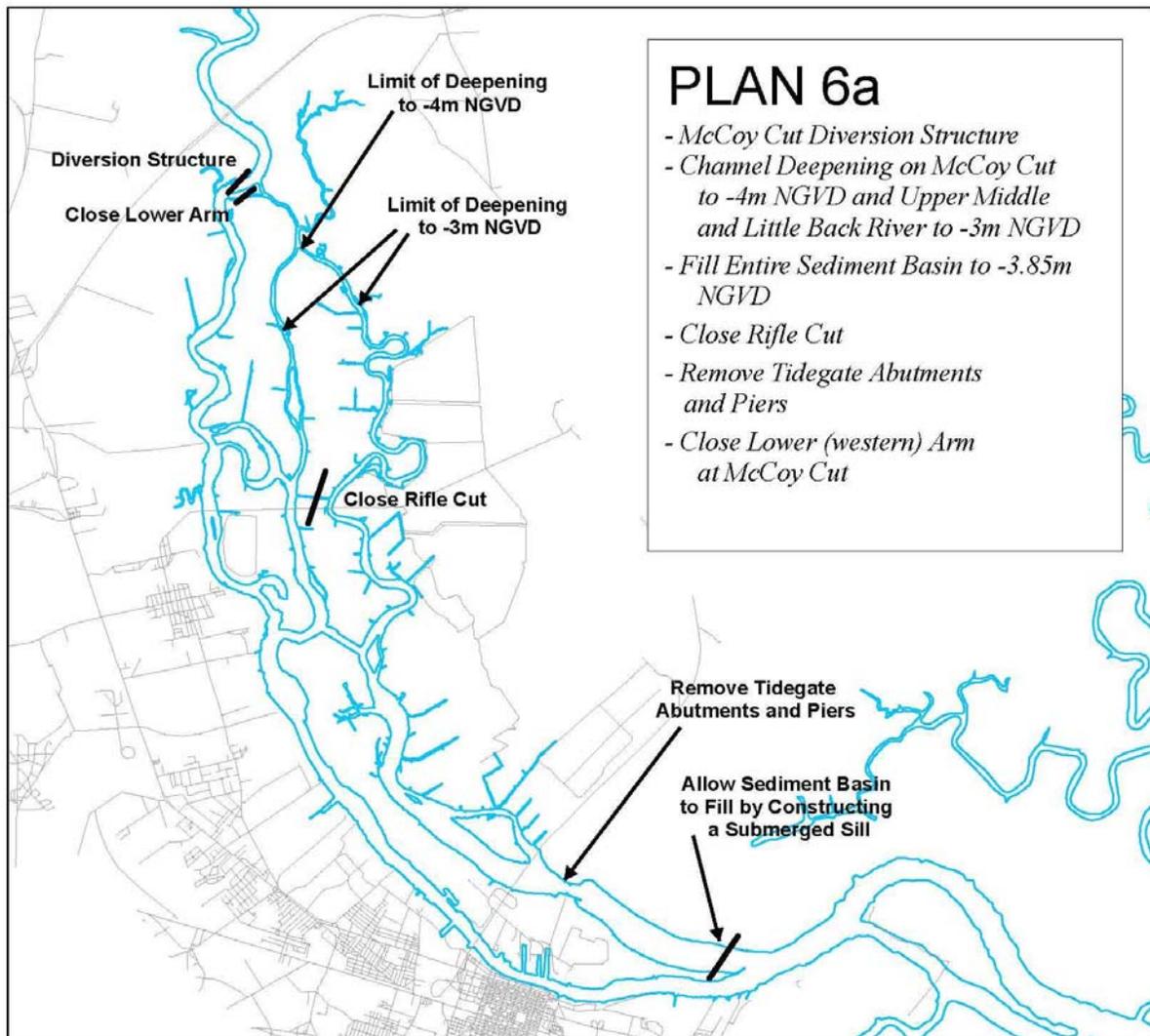
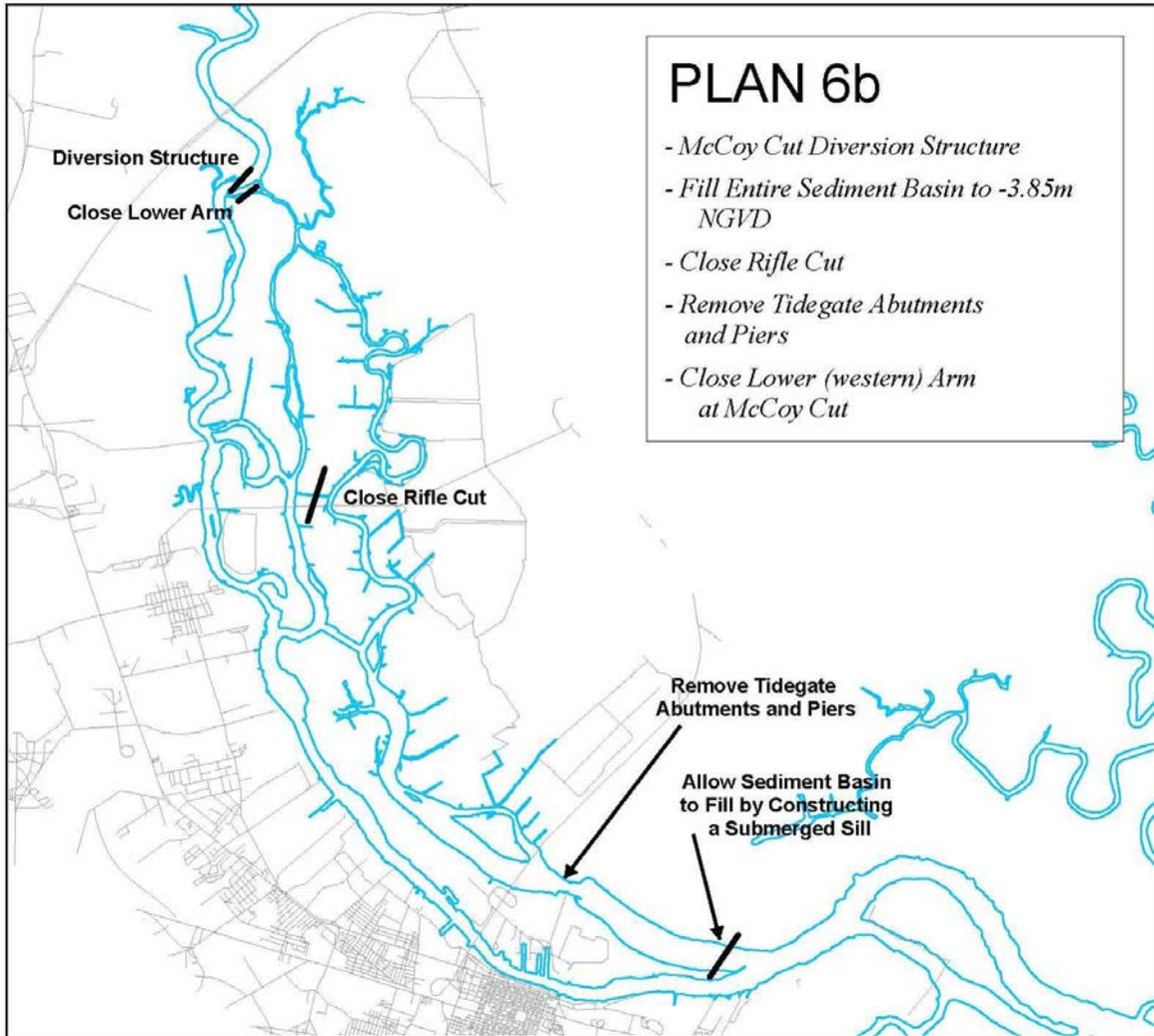


Figure 2: Plan 6b (proposed mitigation for 44 ft channel depth)



In addition to the two proposed mitigation plans that alter flows in the estuary there is also a proposal to implement a Dissolved Oxygen Improvement System in the estuary that would raise DO levels during critical periods. The system would pull a sidestream of water from the river, superoxygenate the sidestream by combining the water with pure oxygen through the use of Speece Cones and then reintroduces the sidestream back into the river system where the superoxygenated water is allowed to mix with the water in the estuary system. This system allows treating the entire river for oxygen deficiencies through a small sidestream of water. For more details on the oxygen improvement system see the report titled *Design of Dissolved Oxygen Improvement Systems in Savannah Harbor* prepared by Tetra Tech and dated February 29, 2008.

Model Input

The plans were evaluated using the 3D hydrodynamic model EFDC and water quality model WASP. The run period and flow parameters are shown below and were specified by the Savannah Harbor Expansion Fisheries Interagency Coordination Team and have been consistent throughout the study process. The group developed several model input scenarios for different species and life stages for evaluation (See Table 1).

Table 1: Model Input Conditions & Habitat Criteria

SPECIES & LIFE STAGE	FRESHWATER FLOW CONDITIONS	SIMULATION PERIOD	HABITAT CRITERIA
Striped Bass (spawning)	20%-tile of Long Term	April	Suitable habitat when (1) 90th percentile salinity \leq 1 ppt, and (2) Mean velocity \geq 30 cm/s
	50%-tile of Long Term	April	
	80%-tile of Long Term	April	
Striped Bass (eggs)	20%-tile of Long Term	April	Suitable habitat when (1) Mean 50th percentile salinity \leq 9 ppt, (2) Mean velocity \geq 30 cm/s, and (3) 10th percentile D.O. \geq 4.5 mg/l
	50%-tile of Long Term	April	
	80%-tile of Long Term	April	
Striped Bass (larvae)	20%-tile of Long Term	May	Suitable habitat when (1) Mean 50th percentile salinity between 3 and 9 ppt, and (2) Mean 10th percentile D.O. \geq 4.5 mg/l
	50%-tile of Long Term	May	
	80%-tile of Long Term	May	
Southern Flounder	50%-tile of Long Term	August*	Suitable habitat when DO \geq 4.0 mg/l at 90% exceedance (10th %ile)
American Shad	50%-tile of Long Term	January	Suitable habitat when D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)
	50%-tile of Long Term	May	
	50%-tile of Long Term	August*	
Shortnose Sturgeon (adult)	50%-tile of Long Term	January	Suitable habitat when DO \geq 3.5 mg/l at 90% exceedance (10 th %ile), \geq 3.0 at 95% (5th percentile), and \geq 2.0 at 99% (1 percentile) Suitable habitat when Max Salinity \leq 25 ppt
Shortnose Sturgeon (adult)	50%-tile of Long Term	August*	Suitable habitat when DO \geq 4.0 mg/l at 90% exceedance (10th %ile), \geq 3.0 at 95% (5th percentile), and \geq 2.0 at 99% (1 percentile) Suitable habitat when Max Salinity \leq 10 ppt
Shortnose Sturgeon (juvenile)	50%-tile of Long Term	January	Suitable habitat when DO \geq 3.5 mg/l at 90% exceedance (10th %ile), \geq 3.0 at 95% (5th percentile), and \geq 2.0 at 99% (1 percentile) Suitable habitat when Max Salinity \leq 4 ppt

**Findings from the August scenarios can be found in Design of Dissolved Oxygen Improvement Systems in Savannah Harbor prepared by Tetra Tech and dated February 29, 2008.*

Long term percentile freshwater river flows needed for the simulations were determined using recorded gage data for Savannah River at Clyo, GA. The simulations run during the August time period did not use 50th percentile flows. These simulations were run by Tetra Tech and details of the findings can be found in the report titled *Design of Dissolved Oxygen Improvement Systems in Savannah Harbor* prepared by Tetra Tech and dated February 29, 2008. The DO Improvement System was designed for the critical period of August and evaluations were done for two different flow conditions: 1) 1997 representing an Average flow year and 2) 1999 representing a drought/low flow year. The long term 50th percentile freshwater flow value for August used as the upstream boundary condition in the initial habitat impact report (*Habitat Impacts of the Savannah Harbor Expansion Project* prepared by Tetra Tech and dated October 12, 2006) is 8130 cfs. The 50th percentile flow value for 1997 only is 9950 cfs and for 1999 only is 7380 cfs. The long term 50th percentile August flow value is actually between the average and drought year flows simulated in the oxygen improvement analysis and design.

Output Presented

There are three types of output presented in this report. 1) Tables showing calculated areas of suitable habitat, 2) figures showing where these suitable habitat areas are located and how they may have changed with deepening the navigation channel and implementation of the mitigation plans, and 3) tables showing the habitat suitability for each cell, including columns for each criteria constituent. Tables and figures are compiled from runs done both by the USACE and by Tetra Tech. The evaluations performed by Tetra Tech were first presented in the Tetra Tech report titled *Design of Dissolved Oxygen Improvement Systems in Savannah Harbor* dated February 29, 2008.

Results

Table 2 (next page) presents a summary of impacts to fisheries habitat for American Shad, Striped Bass, and Shortnose Sturgeon, and Southern Flounder. All values listed in the tables are square kilometers of the river system and are based on the criteria proposed by the Fisheries Interagency Coordination Team. The values listed for the % difference represent the percentage change between the proposed and existing project conditions. The proposed conditions in this case are with the navigation channel deepening and the mitigation plan in place. The % diff (Deepening Only) represents habitat gained or lost with deepening only and no mitigation plan in place.

The model results show that the impact to American Shad, based on the habitat suitability criteria, is very low. The majority of the small loss shown comes with the mitigation plan implemented. However, this number is a bit misleading. Modeling the mitigation features involved closing some of the grid cells to mimic placement of material for either a plug type of feature of a diversion structure. To model these features an entire cell was virtually deleted from the model grid and no DO, salinity, or velocity calculations were made for this area. Therefore the post processor considered these cells to fail the habitat criteria and were tagged as habitat lost. Although, there will likely be some habitat area lost due to construction of the mitigation features, it will likely be very small.

Striped Bass eggs, larvae and spawning do show less habitat loss with implementation of the mitigation features. The greatest gain is with the 46 ft depth, there is no net loss and the habitat gain is actually 191.4% for the 20th percentile flows. While that is a dramatic gain, it isn't typical of all the results.

Shortnose Sturgeon juveniles see reductions in impacts with implementation of the mitigation plan. However, the Shortnose Sturgeon adults see a greater impact on their habitat with implementation of the mitigation plan.

Table 2: Impacts to Habitat Suitability

AMERICAN SHAD

	Suitable Habitat (km ²)				
	May20%flows	May50%flows	May80%flows	January50%flows	August Avg flows
Existing Conditions	19.55	19.55	19.55	19.55	19.55
42 ft Depth					
44 ft depth Plan 6b	19.50	19.50	19.50	19.52	19.49
% difference	-0.2%	-0.2%	-0.2%	-0.2%	-0.3%
% diff (Deepening Only)	0.0%	0.0%	0.0%	0.0%	0.0%
45 ft depth Plan 6a	19.51	19.51	19.51	19.52	19.49
% difference	-0.2%	-0.2%	-0.2%	-0.2%	-0.3%
% diff (Deepening Only)	0.0%	0.0%	0.0%	0.0%	0.0%
46 ft depth Plan 6a	19.51	19.51	19.51	19.52	19.51
% difference	-0.2%	-0.2%	-0.2%	-0.2%	-0.2%
% diff (Deepening Only)	0.0%	0.0%	0.0%	0.0%	0.0%
47 ft depth Plan 6a	19.51	19.51	19.51	19.52	19.51
% difference	-0.2%	-0.2%	-0.2%	-0.2%	-0.2%
% diff (Deepening Only)	0.0%	0.0%	0.0%	0.0%	0.0%
48 ft depth Plan 6a	19.51	19.51	19.51	19.52	19.51
% difference	-0.2%	-0.2%	-0.2%	-0.2%	-0.2%
% diff (Deepening Only)	0.0%	0.0%	0.0%	0.0%	0.0%

STRIPED BASS

	EGGS			LARVAE			SPAWNING		
	Suitable Habitat (km ²)			Suitable Habitat (km ²)			Suitable Habitat (km ²)		
	April20%flows	April50%flows	April80%flows	May20%flows	May50%flows	May80%flows	April20%flows	April50%flows	April80%flows
Existing Conditions	3.89	6.78	9.13	0.81	2.28	4.02	2.59	4.21	7.45
42 ft Depth									
44 ft depth Plan 6b	3.02	6.15	9.82	2.22	2.16	3.47	2.19	4.08	7.23
% difference	-22.3%	-9.4%	7.6%	174.6%	-5.6%	-13.7%	-15.2%	-2.9%	-2.9%
% diff (Deepening Only)	-10.4%	-9.7%	-2.2%	38.0%	-13.5%	-1.1%	-7.6%	-8.0%	-6.2%
45 ft depth Plan 6a	3.21	7.13	9.86	2.32	2.32	4.32	2.23	3.82	6.82
% difference	-17.6%	5.2%	8.0%	187.4%	1.7%	7.6%	-13.9%	-9.2%	-8.5%
% diff (Deepening Only)	-12.3%	-11.2%	-4.9%	56.4%	-18.6%	-7.1%	-10.9%	-12.2%	-6.6%
46 ft depth Plan 6a	3.59	6.78	9.76	2.35	2.41	4.43	2.10	3.79	6.64
% difference	-7.8%	0.0%	6.9%	191.4%	5.6%	10.1%	-18.7%	-10.0%	-10.8%
% diff (Deepening Only)	-14.0%	-15.9%	-4.8%	99.5%	-21.0%	-4.8%	-12.7%	-13.0%	-12.8%
47 ft depth Plan 6a	3.42	6.03	9.59	2.25	2.17	5.08	2.04	3.64	6.50
% difference	-12.1%	-11.1%	5.0%	178.7%	-5.0%	26.4%	-21.1%	-13.5%	-12.7%
% diff (Deepening Only)	-17.8%	-20.5%	-6.4%	105.8%	-13.8%	6.6%	-14.3%	-18.1%	14.7%
48 ft depth Plan 6a	3.71	6.05	9.44	2.06	2.20	5.22	1.97	3.53	6.47
% difference	-4.6%	-10.8%	3.4%	154.6%	-3.5%	30.0%	-23.9%	-16.1%	-13.2%
% diff (Deepening Only)	-19.4%	-24.5%	-7.2%	104.6%	-13.8%	6.0%	-16.9%	-19.7%	-17.3%

SHORTNOSE STURGEON

	JUVENILES		ADULTS	
	Suitable Habitat (km ²)			
	January50%flows	January50%flows	August Avg flows	
Existing Conditions	6.98	16.10	5.63	
42 ft Depth				
44 ft depth Plan 6b	7.05	15.08	6.34	
% difference	1.1%	-6.4%	12.6%	
% diff (Deepening Only)	-5.0%	-0.5%	-3.20	
45 ft depth Plan 6a	7.15	14.97	5.55	
% difference	2.4%	-7.0%	-1.4%	
% diff (Deepening Only)	-10.4%	-0.5%	-6.40	
46 ft depth Plan 6a	6.98	14.72	5.51	
% difference	0.1%	-8.6%	-2.2%	
% diff (Deepening Only)	-15.9%	-0.8%	-9.50	
47 ft depth Plan 6a	6.94	14.62	5.24	
% difference	-0.6%	-9.2%	-6.9%	
% diff (Deepening Only)	-19.0%	-0.8%	-13.3%	
48 ft depth Plan 6a	6.86	14.33	5.17	
% difference	-1.6%	-11.0%	-8.2%	
% diff (Deepening Only)	-21.6%	-1.1%	-15.80	

SOUTHERN FLOUNDER

	Suitable Habitat (km ²)
	August Avg flows
Existing Conditions	7.57
42 ft Depth	
44 ft depth Plan 6b	13.18
% difference	74.1%
% diff (Deepening Only)	-0.3%
45 ft depth Plan 6a	11.67
% difference	54.2%
% diff (Deepening Only)	-2.4%
46 ft depth Plan 6a	11.91
% difference	57.3%
% diff (Deepening Only)	-2.4%
47 ft depth Plan 6a	11.91
% difference	57.3%
% diff (Deepening Only)	-7.8%
48 ft depth Plan 6a	11.57
% difference	52.9%
% diff (Deepening Only)	0.0%

Conclusion

In summary, Mitigation Plans 6a and 6b are the proposed flow altering components of the mitigation plans. Both of the proposed plans include operation of the DO Improvement System during critical periods (July through September). The plans do have an effect on fisheries habitat. The positive impacts occur with Striped Bass, especially larvae, Southern Flounder, and Shortnose Sturgeon juveniles. There is little to no impact shown with American Shad. Shortnose Sturgeon adults experience the greatest negative impact during the January flow period, however, the August flow period shows improvement over the deepened only condition when the DO Improvement System is activated.

References

Tetra Tech Inc., *Habitat Impacts of the Savannah Harbor Expansion Project*, October 12, 2006.

Tetra Tech Inc., *Design of Dissolved Oxygen Improvement Systems in Savannah Harbor*, February 29, 2008.

Tetra Tech Inc., *Development of the Hydrodynamic and Water Quality Models for the Savannah Harbor Expansion Project*, January 30, 2006.

Appendix A

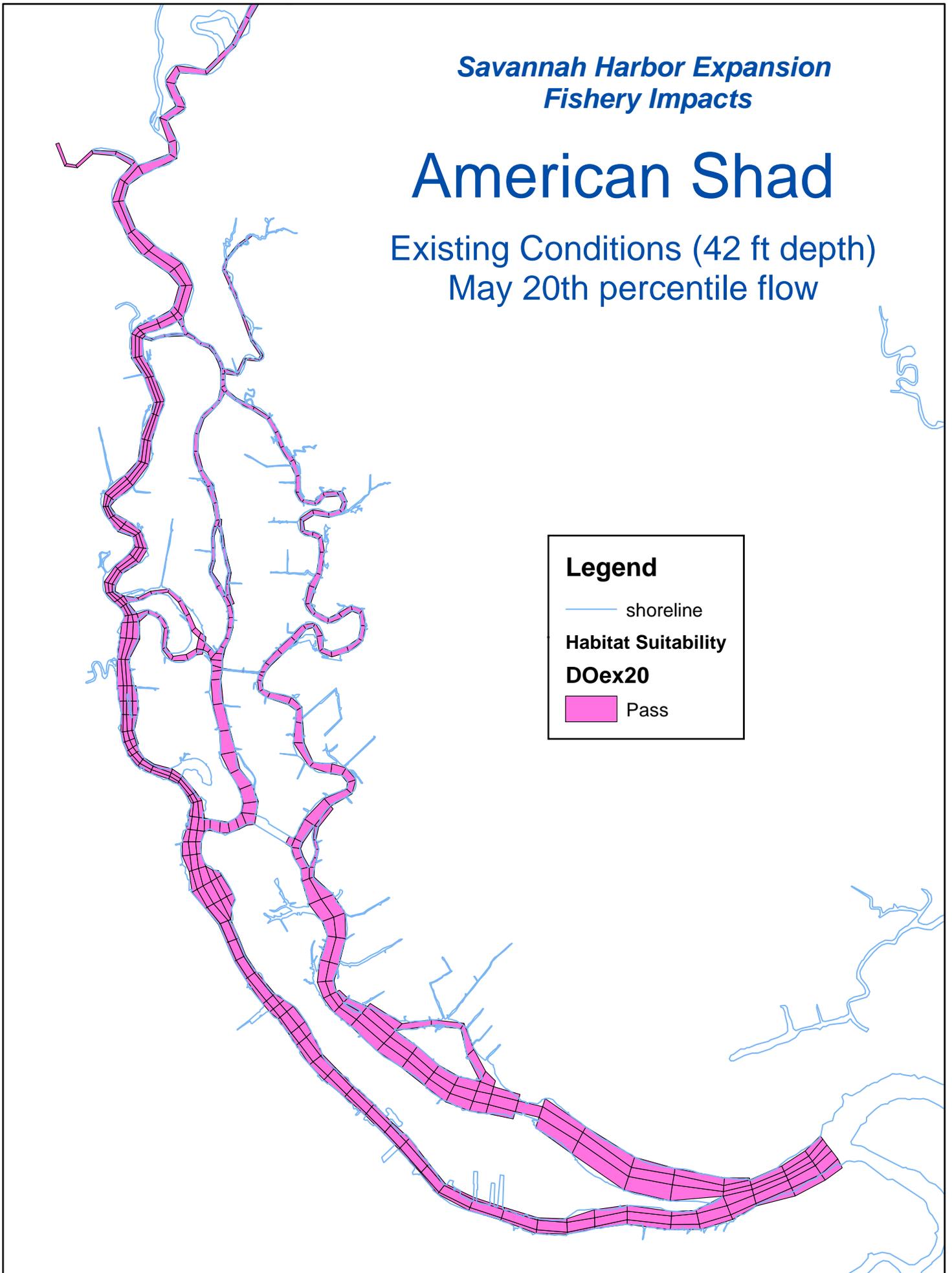
Habitat Suitability Figures

Existing Conditions
No Deepening No Mitigation

*Savannah Harbor Expansion
Fishery Impacts*

American Shad

Existing Conditions (42 ft depth)
May 20th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

Existing Conditions (42 ft depth)
May 50th percentile flow

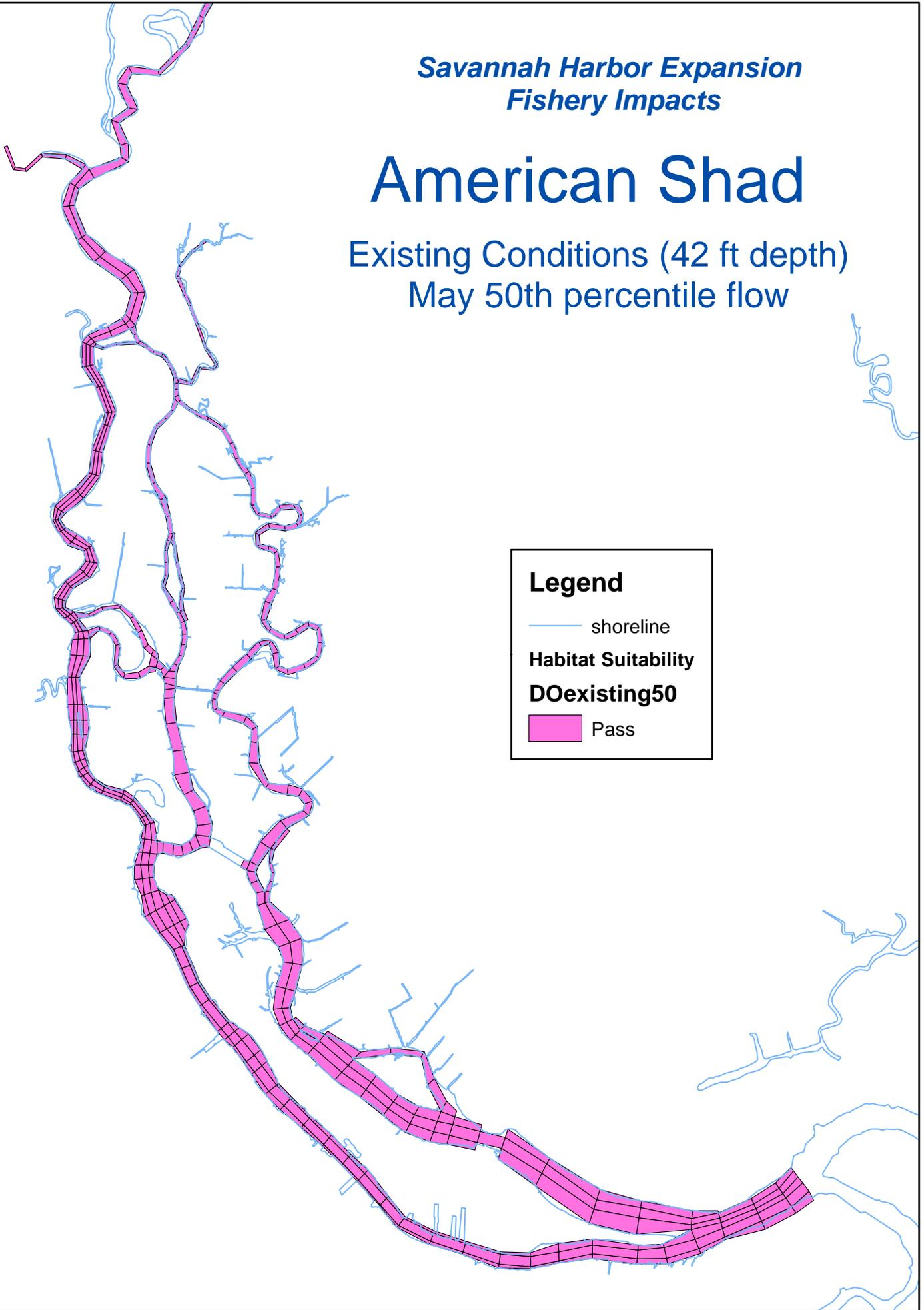
Legend

— shoreline

Habitat Suitability

DOexisting50

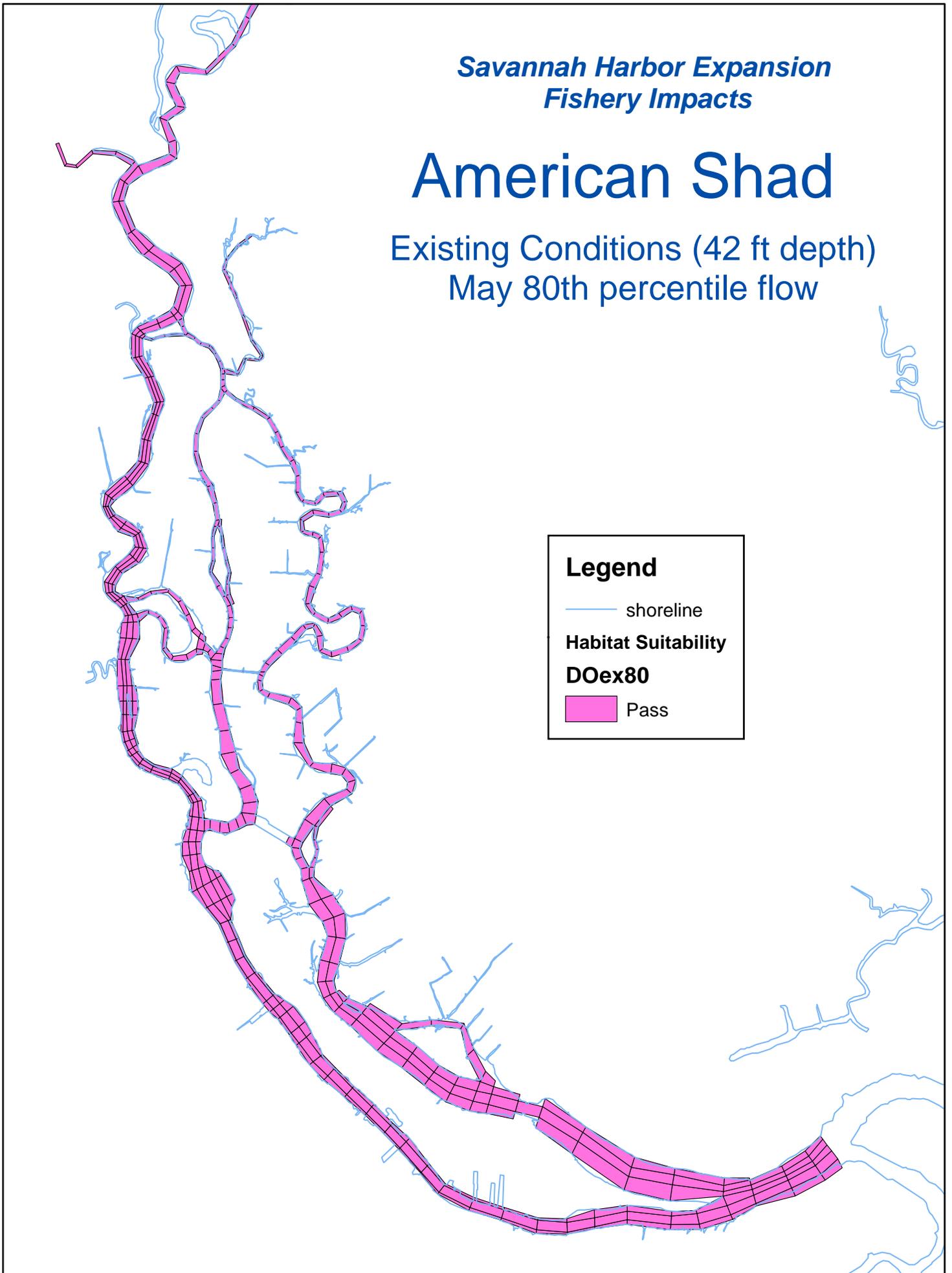
Pass



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

Existing Conditions (42 ft depth)
May 80th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

Existing Conditions (42 ft depth)
January 50th percentile flow

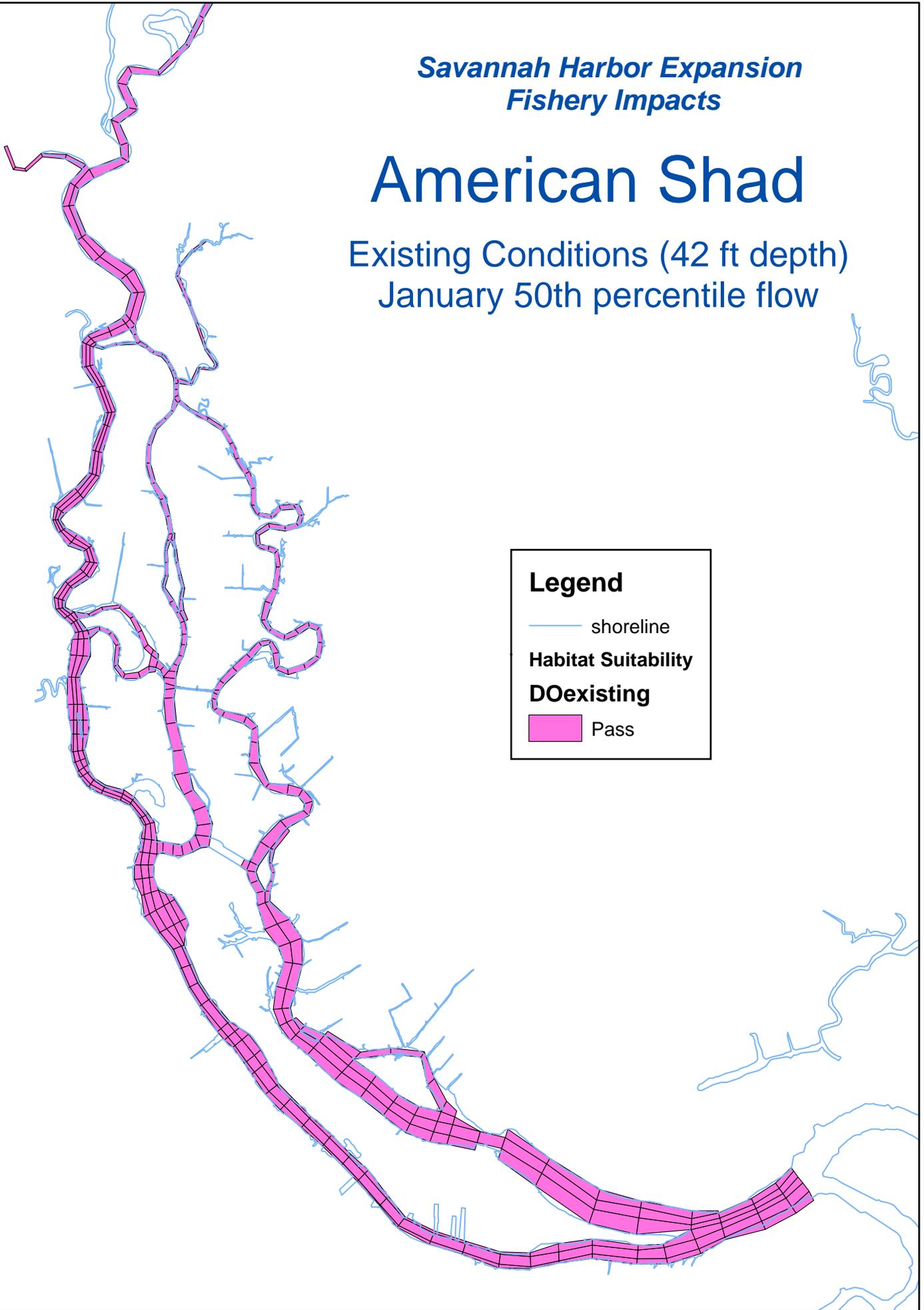
Legend

— shoreline

Habitat Suitability

DOexisting

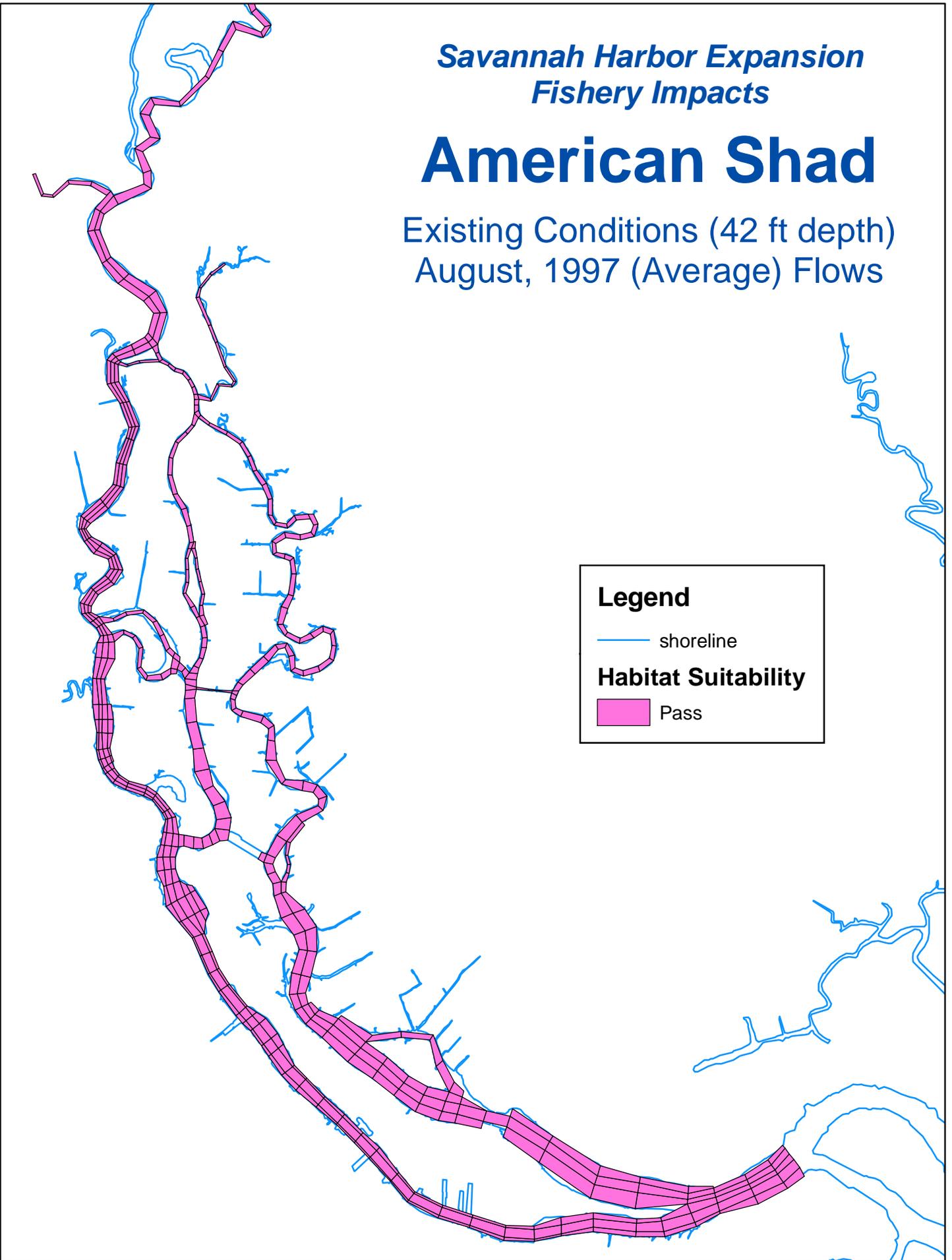
Pass



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

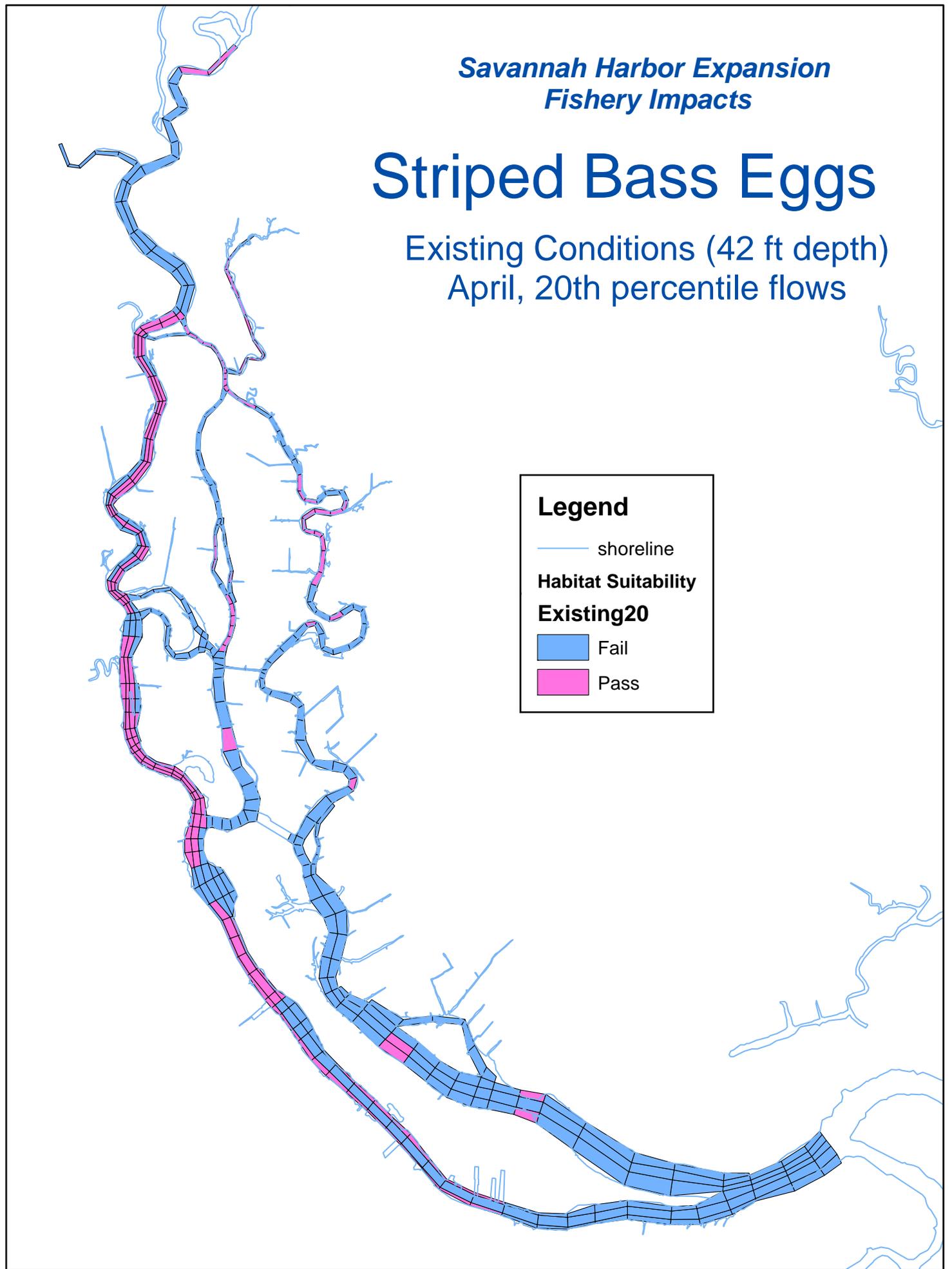
Existing Conditions (42 ft depth)
August, 1997 (Average) Flows



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

Existing Conditions (42 ft depth)
April, 20th percentile flows



Legend

— shoreline

Habitat Suitability

Existing20

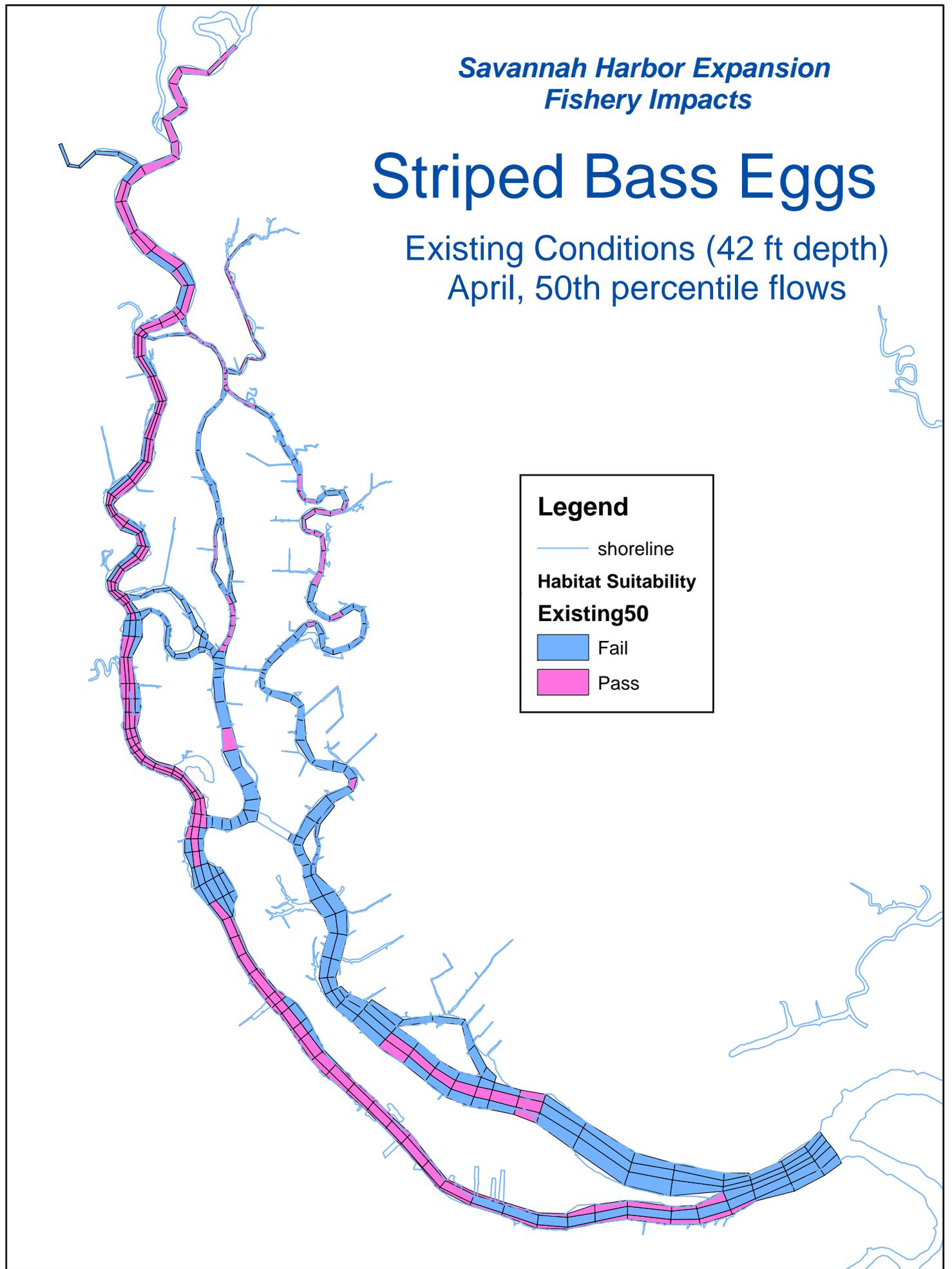
Fail

Pass

*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

Existing Conditions (42 ft depth)
April, 50th percentile flows



Legend

— shoreline

Habitat Suitability

Existing50

Fail

Pass

*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

Existing Conditions (42 ft depth)
April, 80th percentile flows

Legend

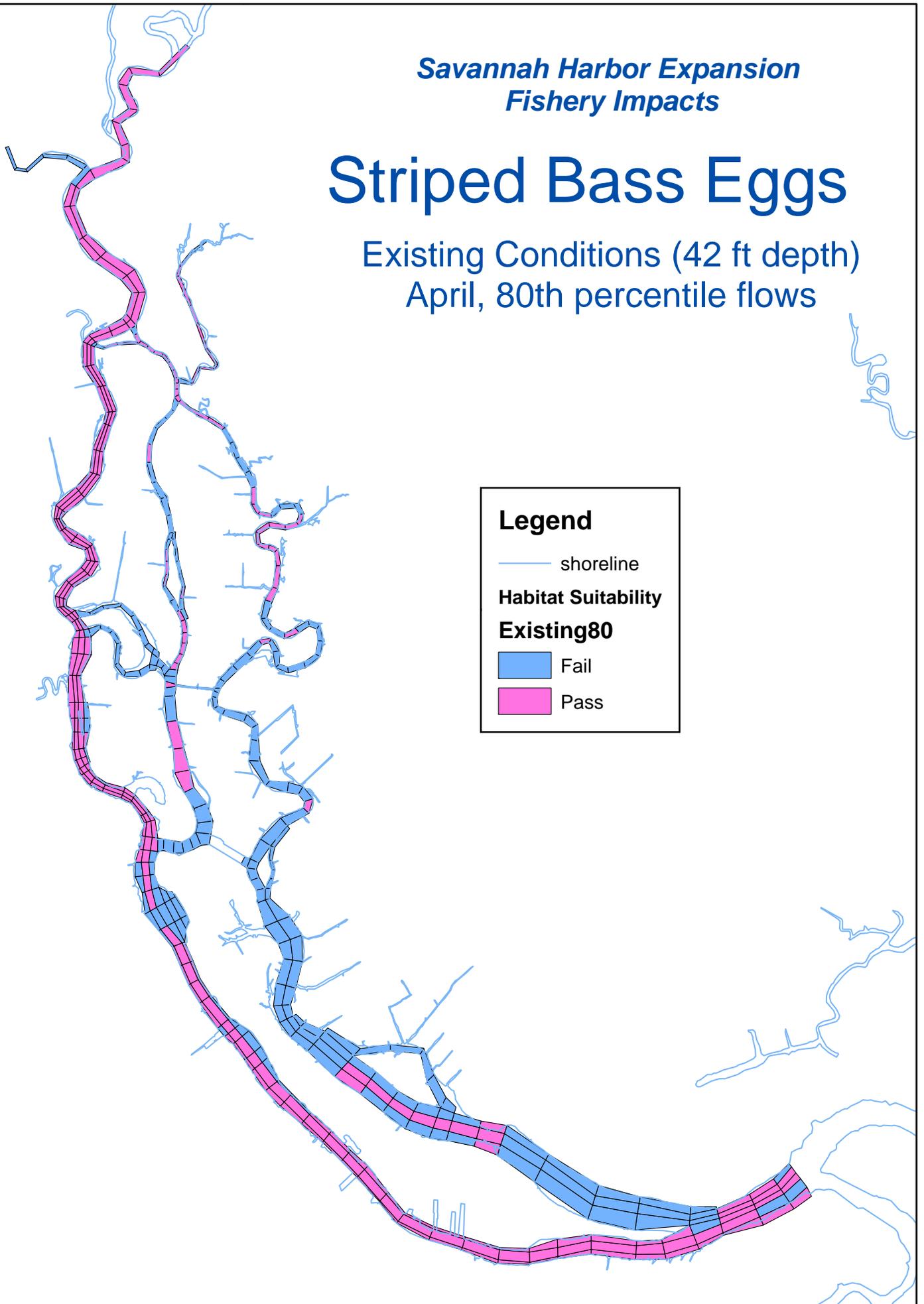
— shoreline

Habitat Suitability

Existing80

Fail

Pass



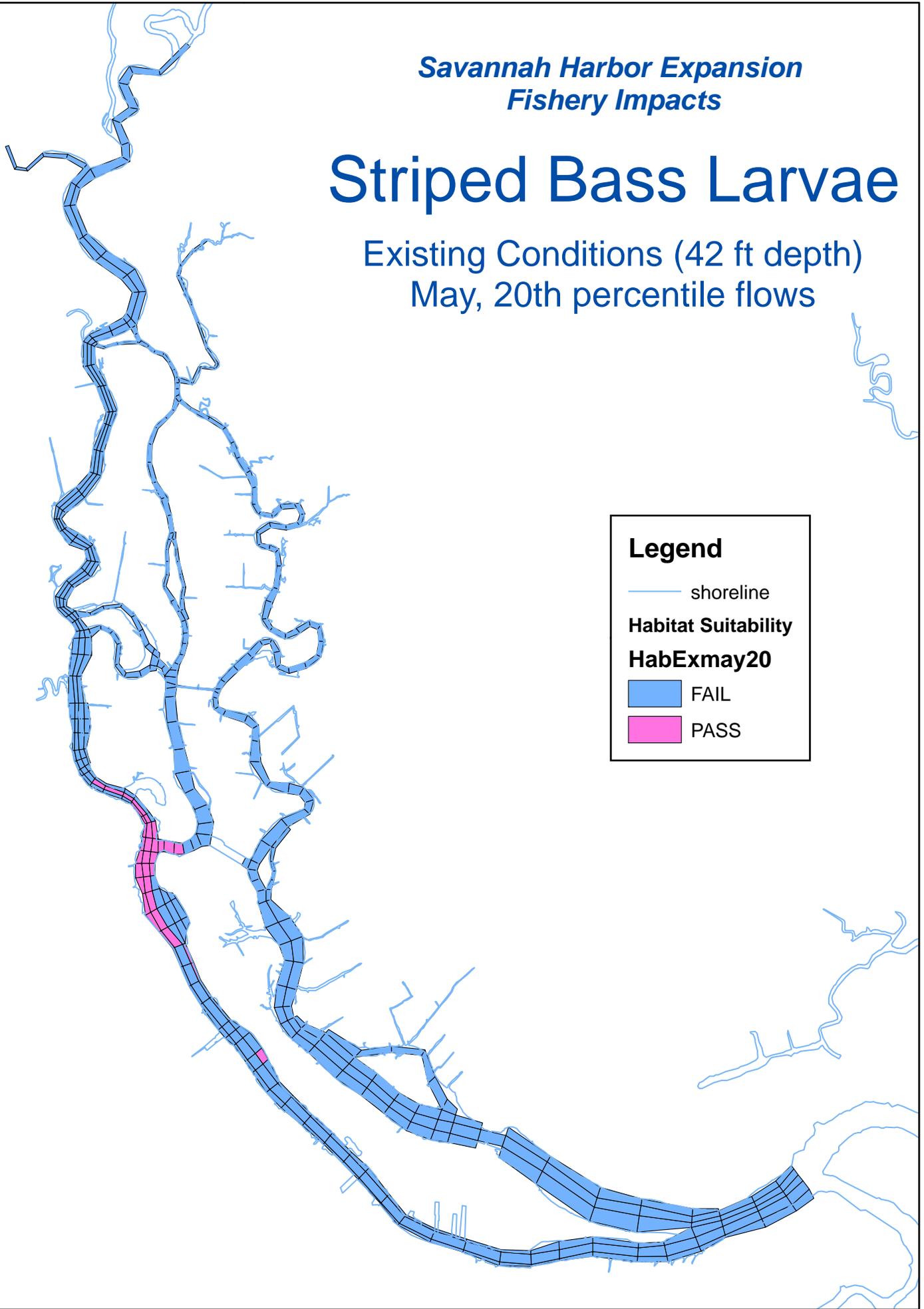
*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

Existing Conditions (42 ft depth)
May, 20th percentile flows

Legend

- shoreline
- Habitat Suitability**
- HabExmay20**
- FAIL
- PASS



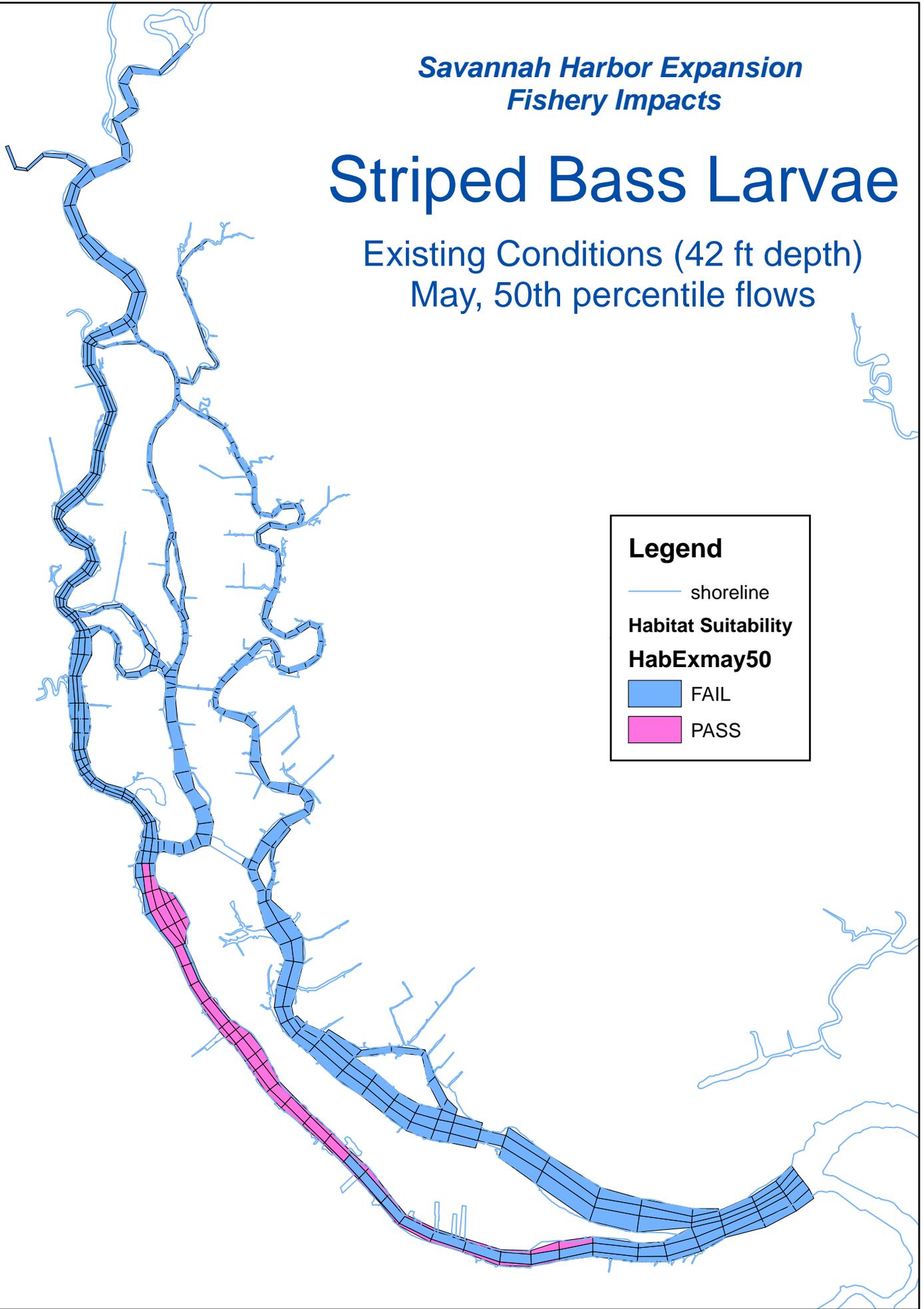
*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

Existing Conditions (42 ft depth)
May, 50th percentile flows

Legend

- shoreline
- Habitat Suitability**
- HabExmay50**
- FAIL
- PASS



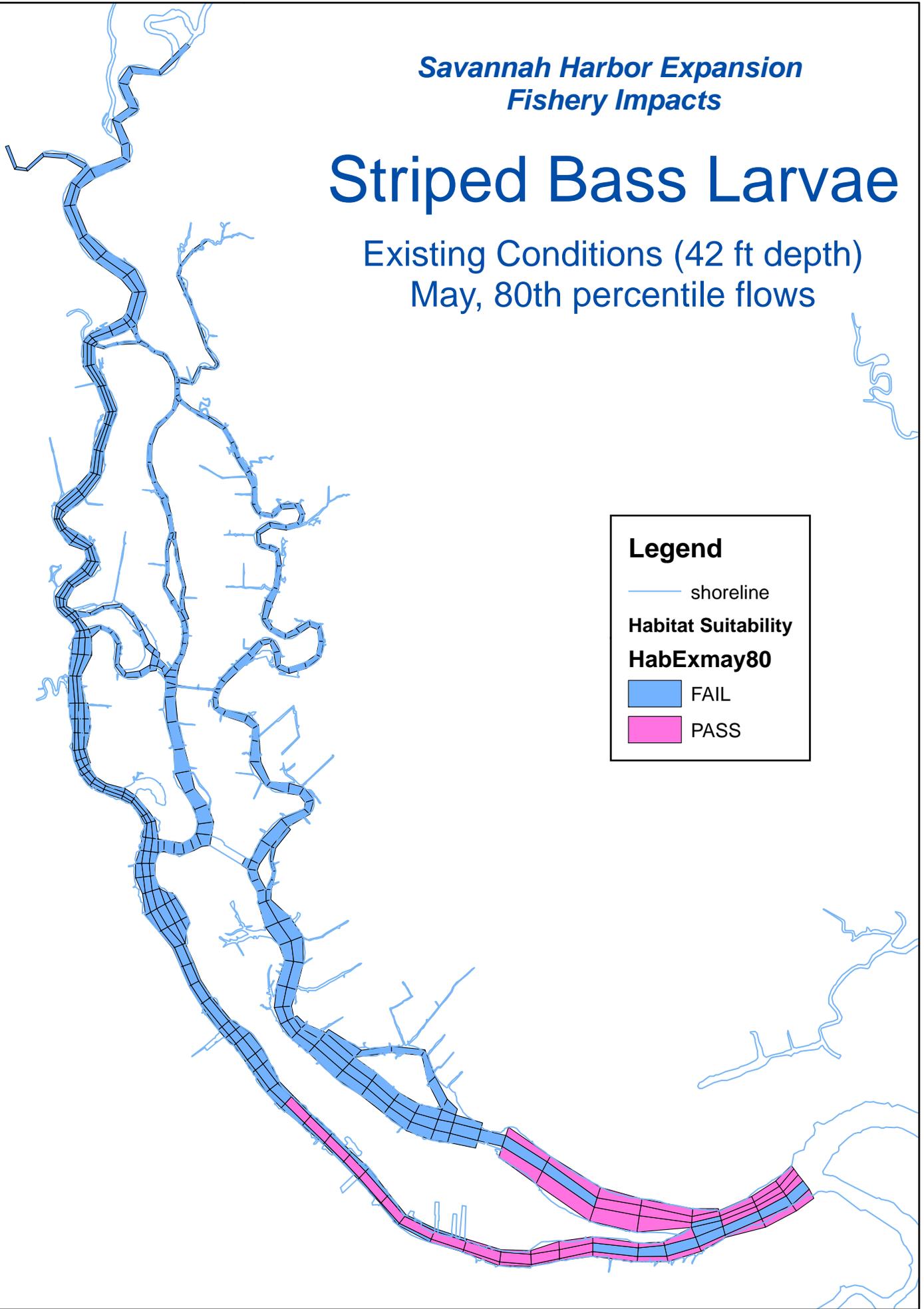
*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

Existing Conditions (42 ft depth)
May, 80th percentile flows

Legend

- shoreline
- Habitat Suitability**
- HabExmay80**
- FAIL
- PASS



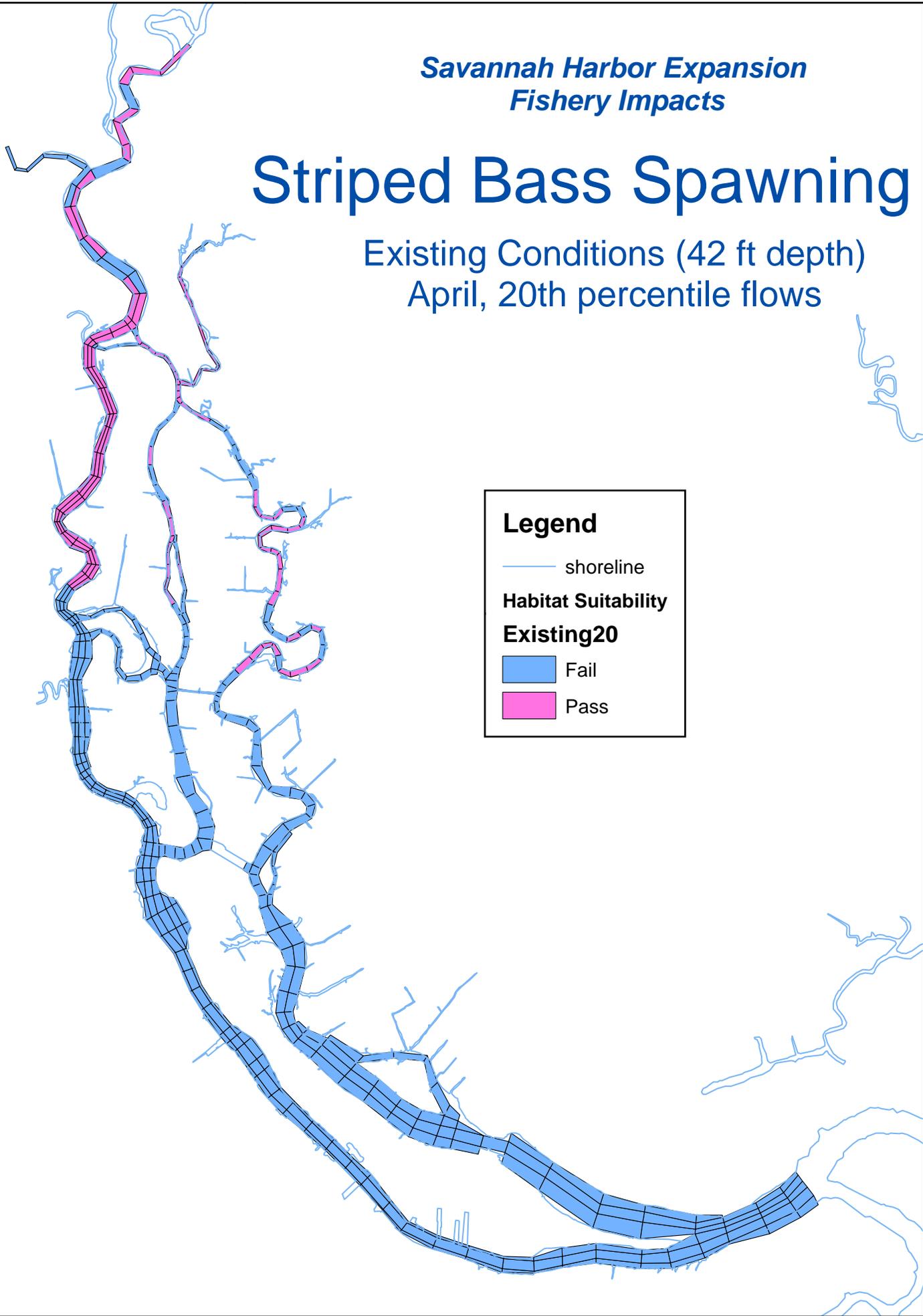
*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

Existing Conditions (42 ft depth)
April, 20th percentile flows

Legend

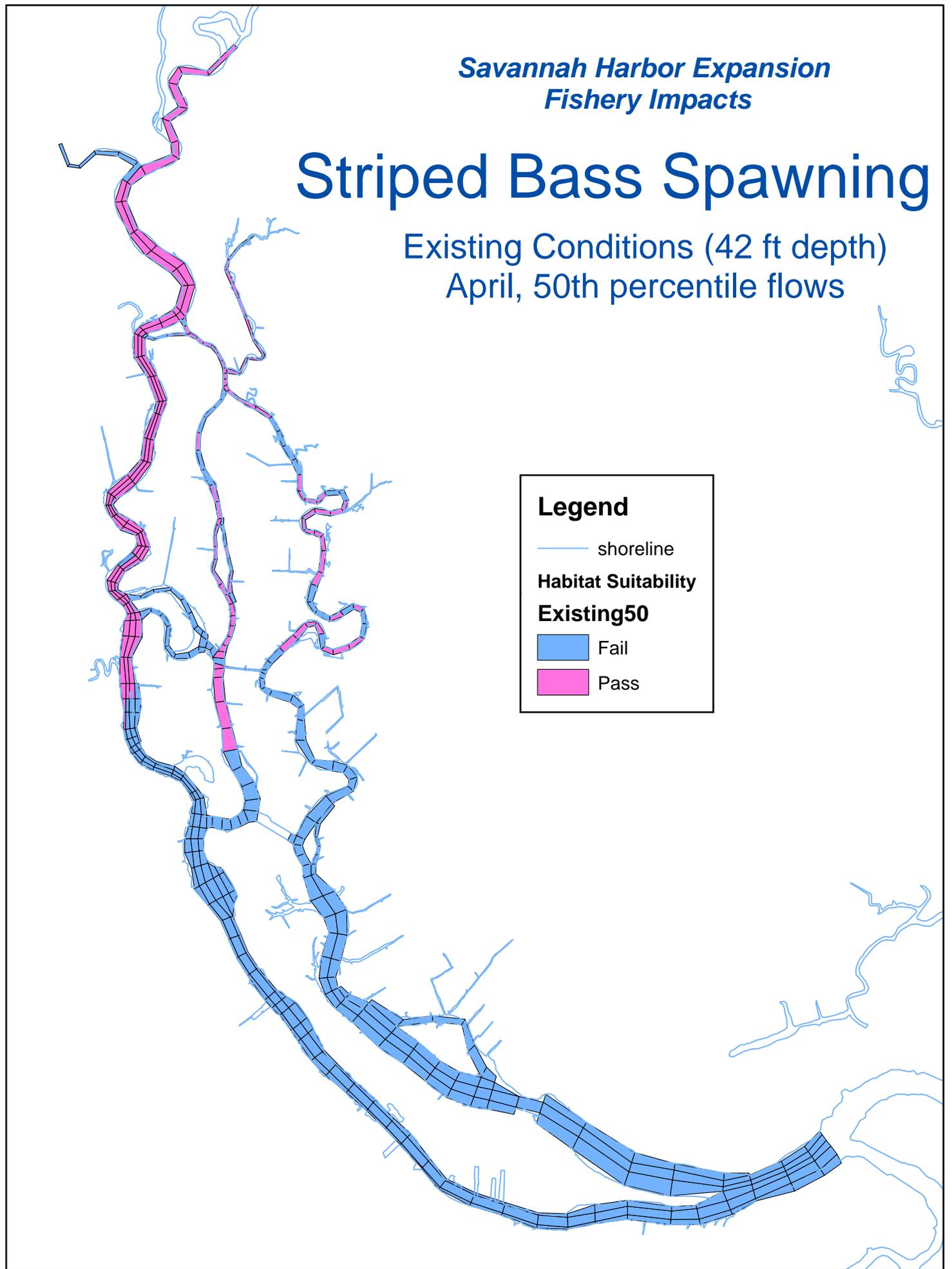
- shoreline
- Habitat Suitability**
- Existing20**
- Fail
- Pass



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

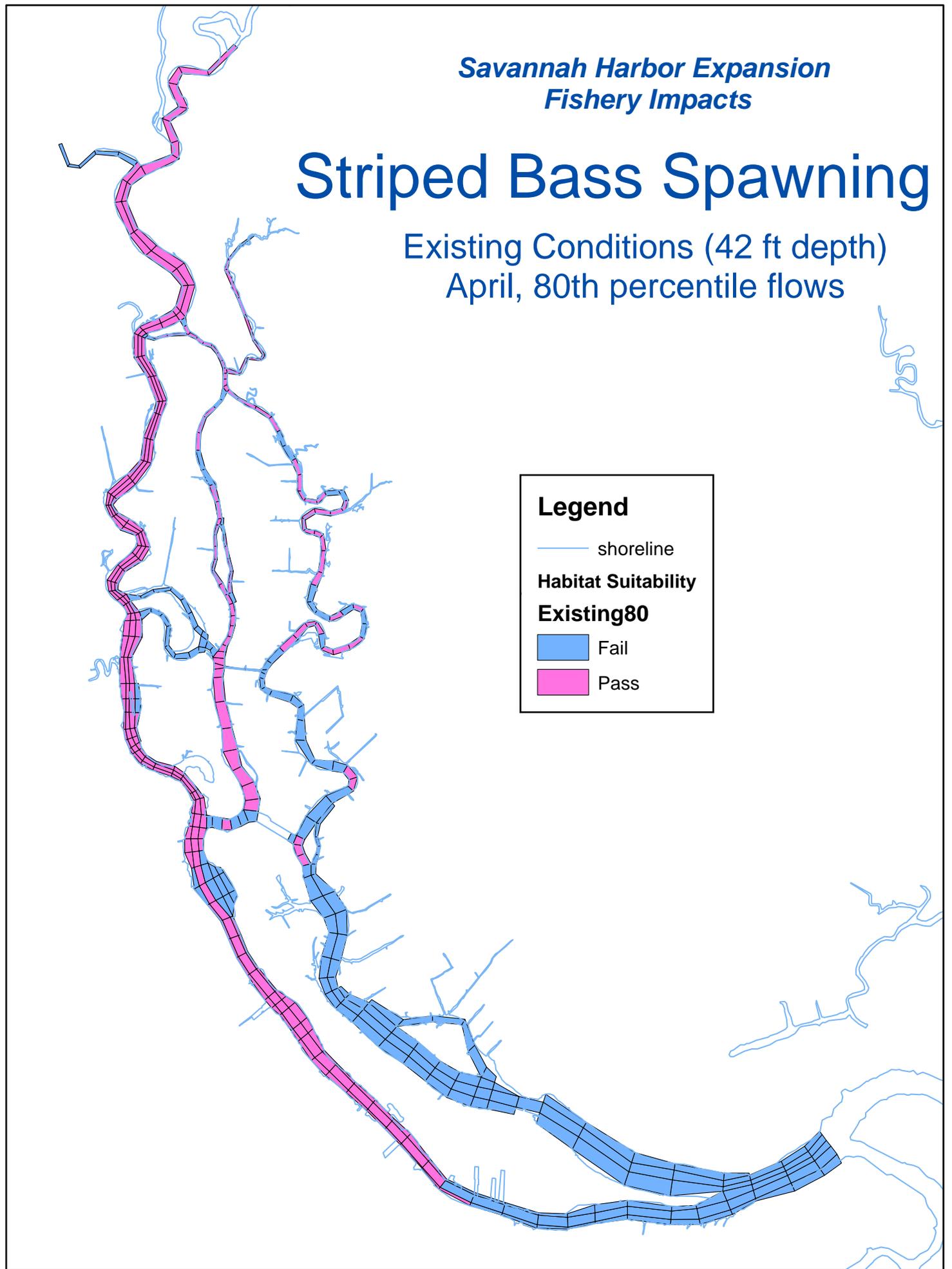
Existing Conditions (42 ft depth)
April, 50th percentile flows



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

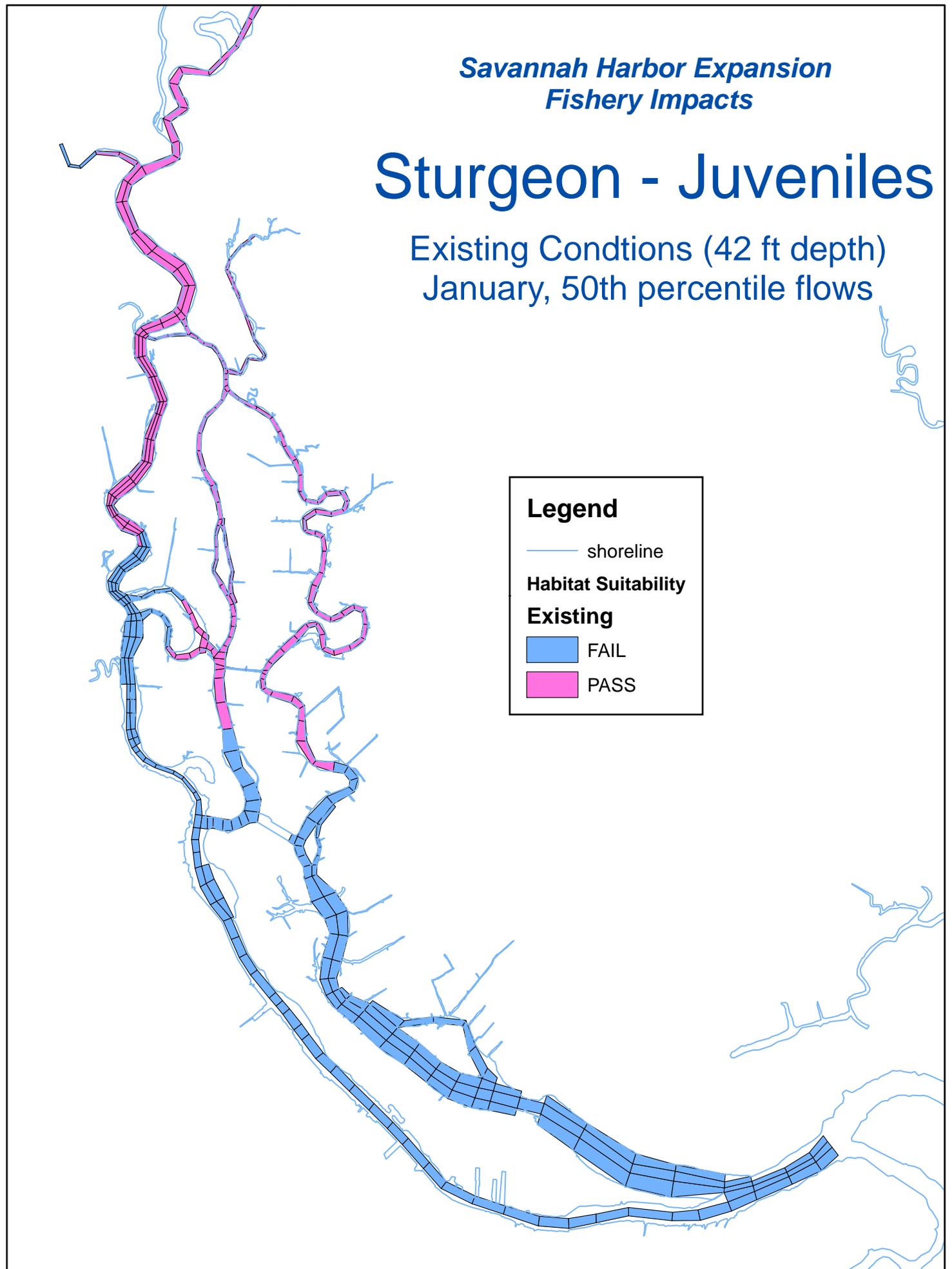
Existing Conditions (42 ft depth)
April, 80th percentile flows



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Juveniles

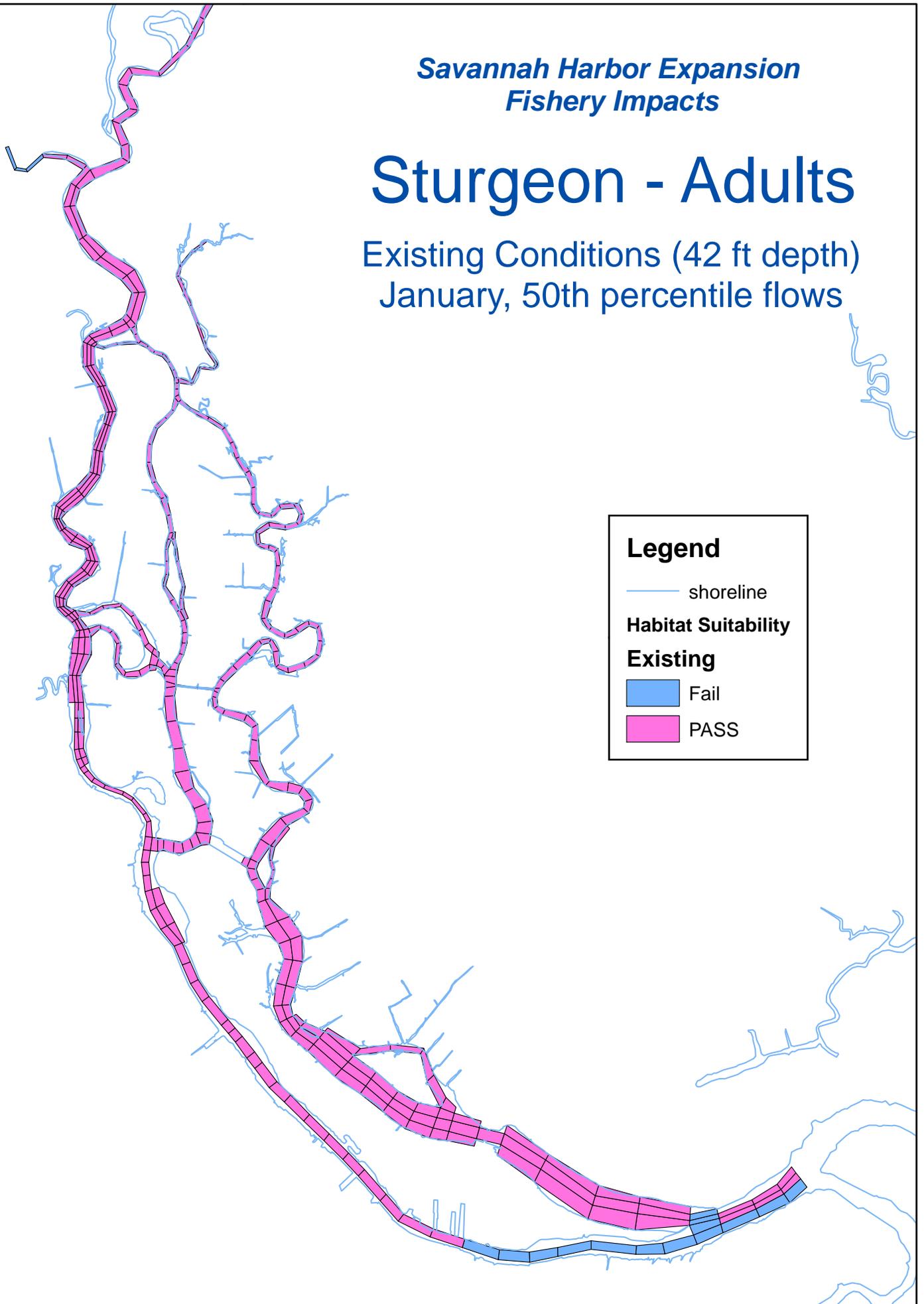
Existing Conditions (42 ft depth)
January, 50th percentile flows



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

Existing Conditions (42 ft depth)
January, 50th percentile flows



Legend

— shoreline

Habitat Suitability

Existing

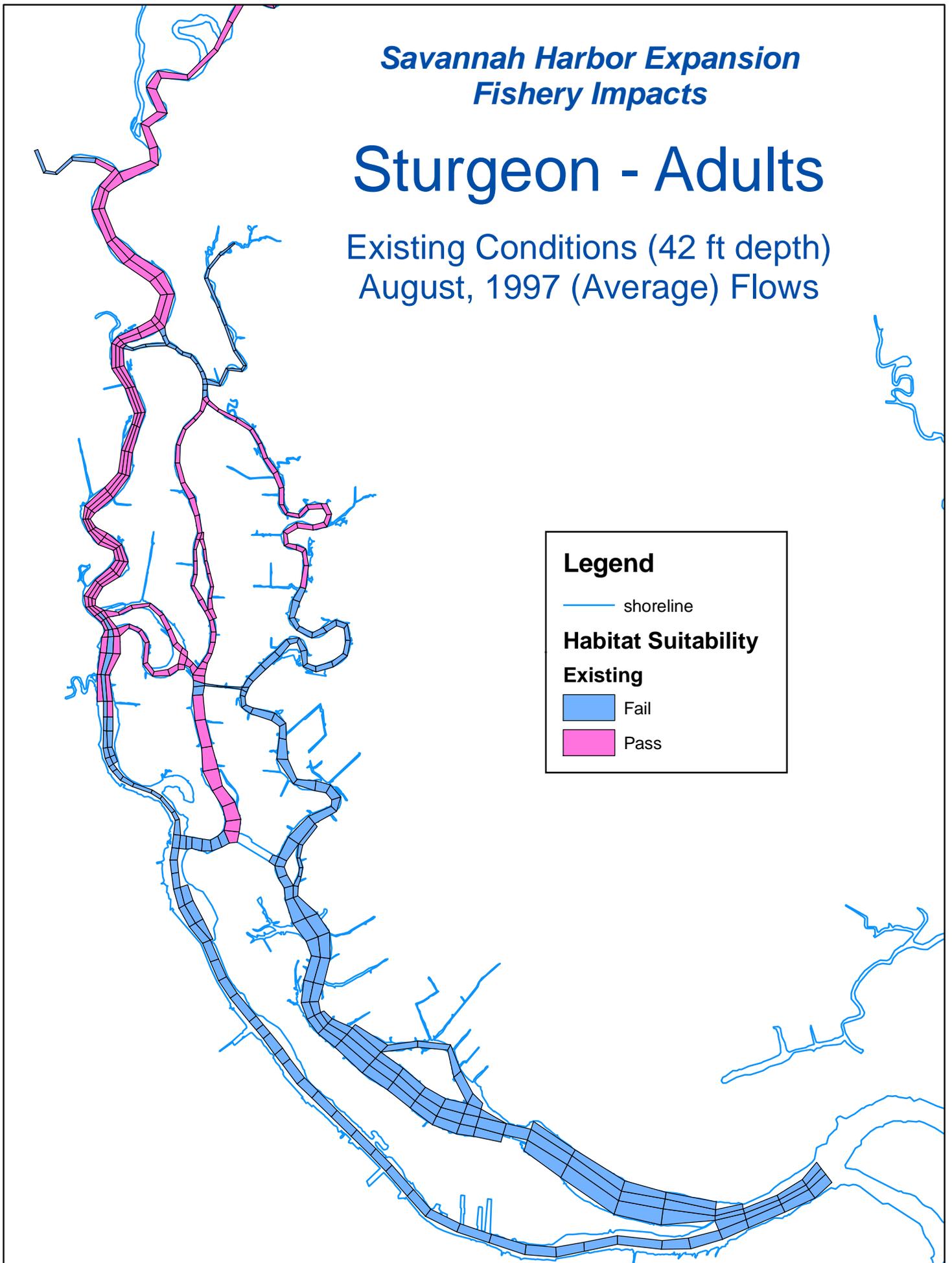
Fail

PASS

*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

Existing Conditions (42 ft depth)
August, 1997 (Average) Flows



*Savannah Harbor Expansion
Fishery Impacts*

Southern Flounder

**Existing Conditions (42 ft depth)
August, 1997 (Average) Flows**

Legend

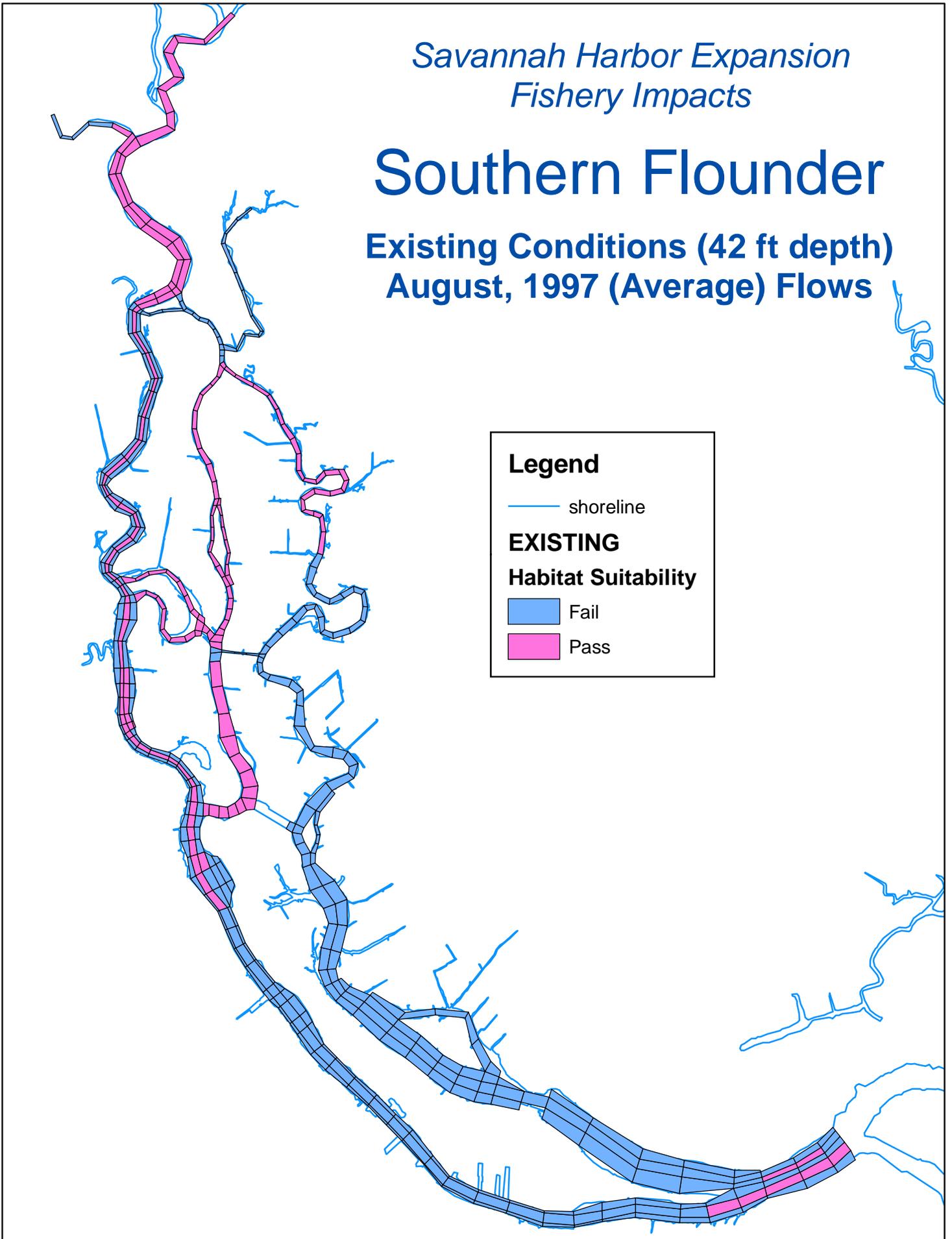
— shoreline

EXISTING

Habitat Suitability

Fail

Pass



44 ft Channel Depth

Mitigation Plan 6b

*Savannah Harbor Expansion
Fishery Impacts*

American Shad

44 ft Deepening, Plan 6b
May 20th percentile flow

Legend

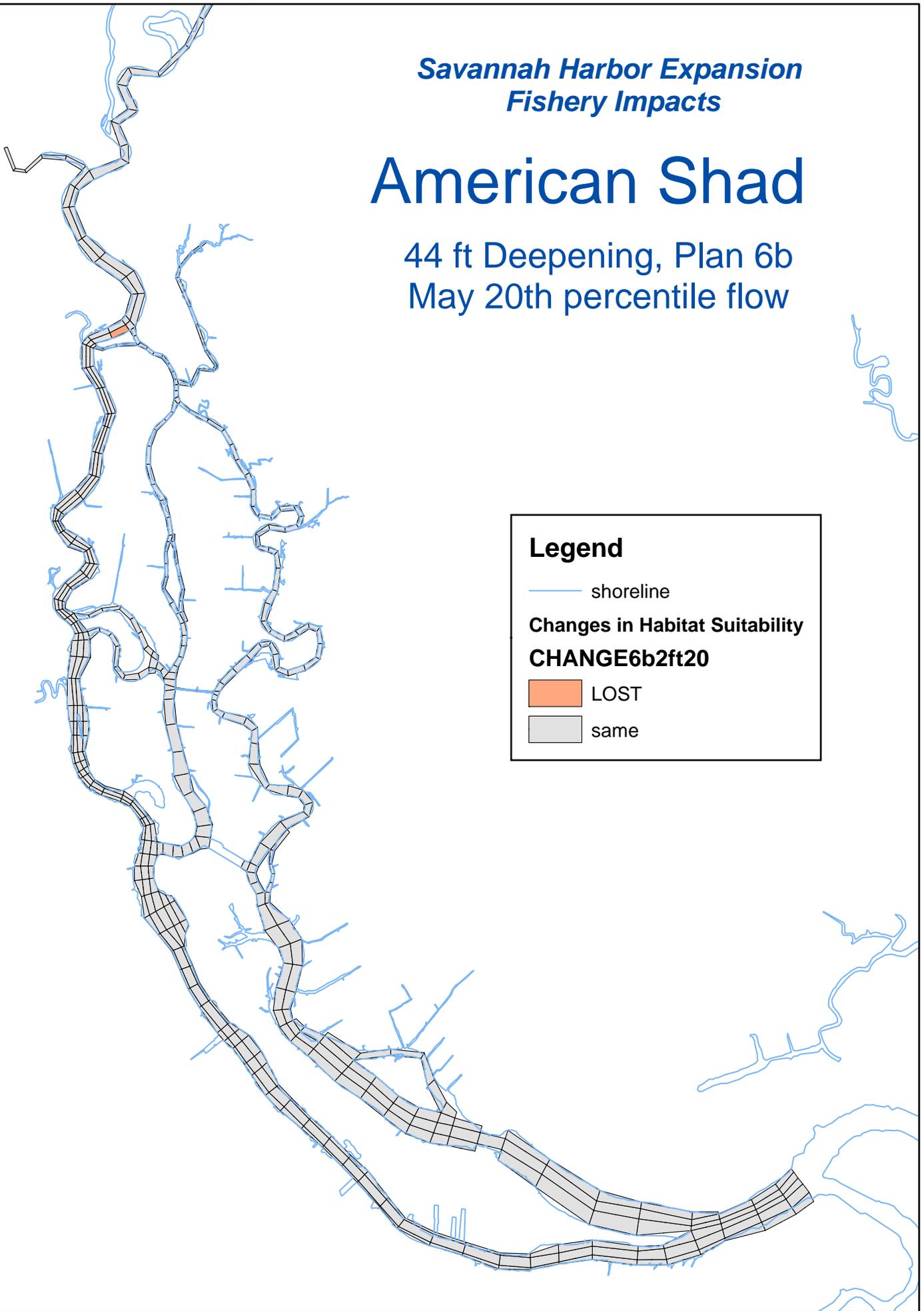
— shoreline

Changes in Habitat Suitability

CHANGE6b2ft20

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

44 ft Deepening, Plan 6b
May 50th percentile flow

Legend

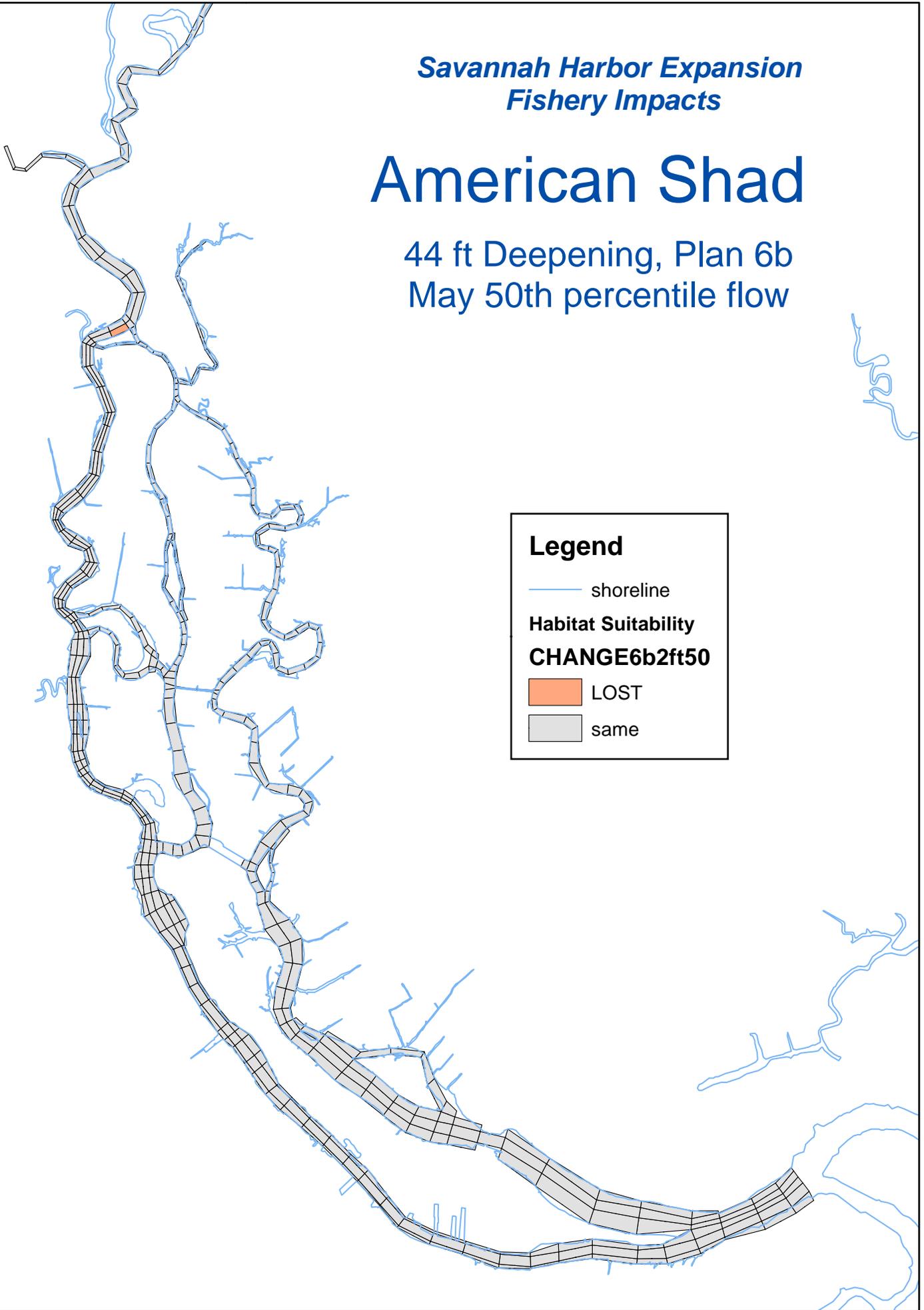
— shoreline

Habitat Suitability

CHANGE6b2ft50

LOST

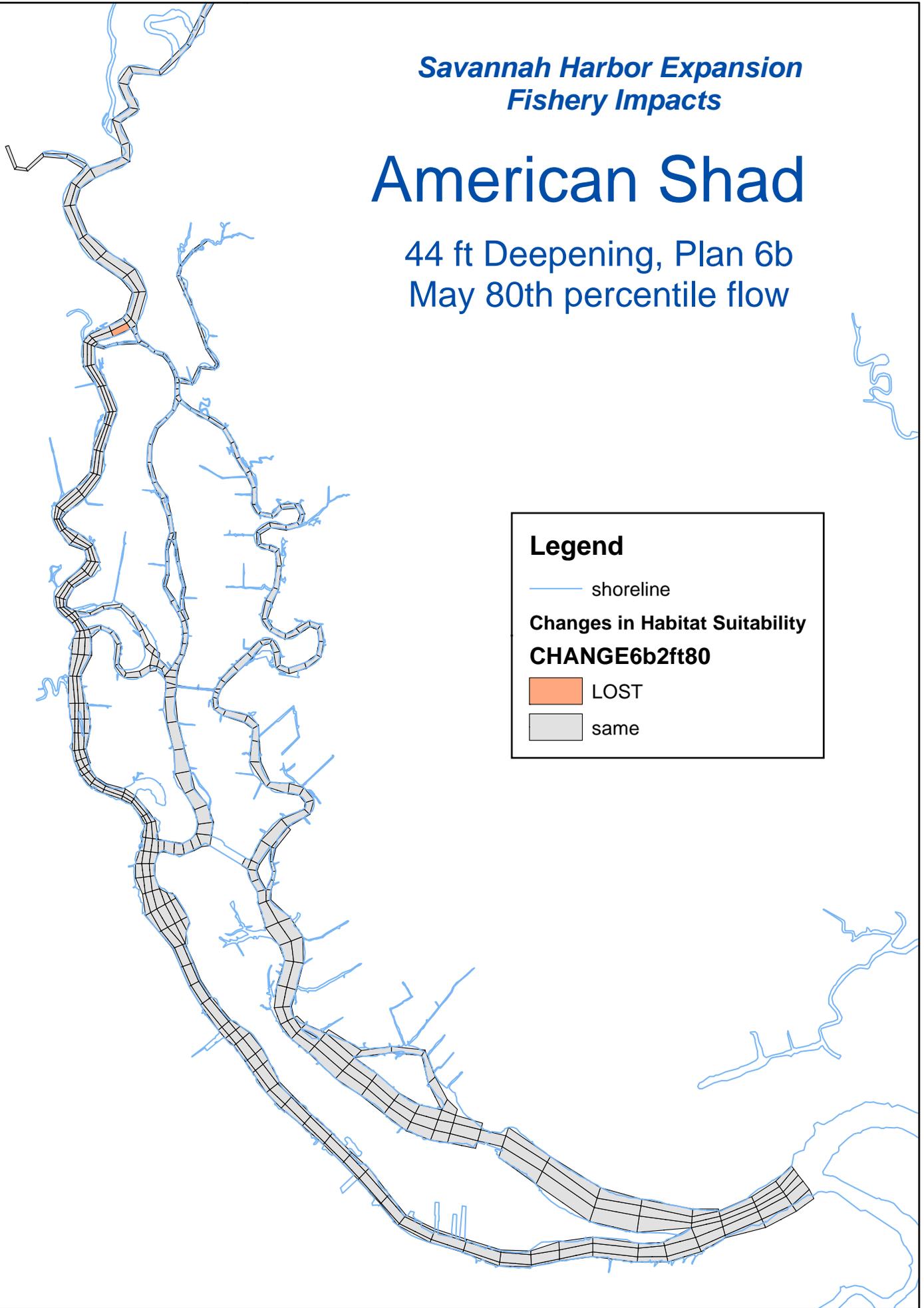
same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

44 ft Deepening, Plan 6b
May 80th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

44 ft Deepening, Plan 6b
January 50th percentile flow

Legend

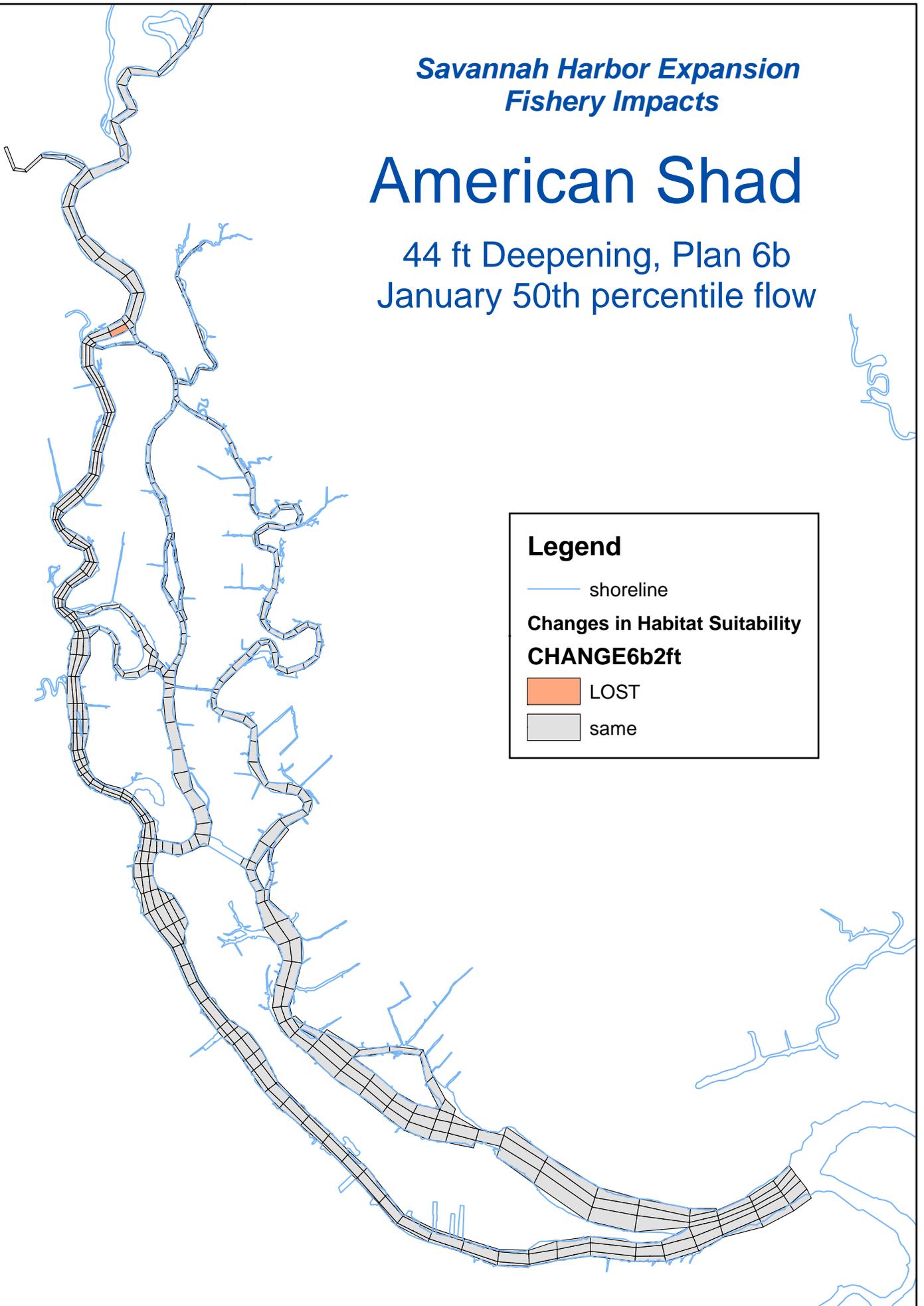
— shoreline

Changes in Habitat Suitability

CHANGE6b2ft

LOST

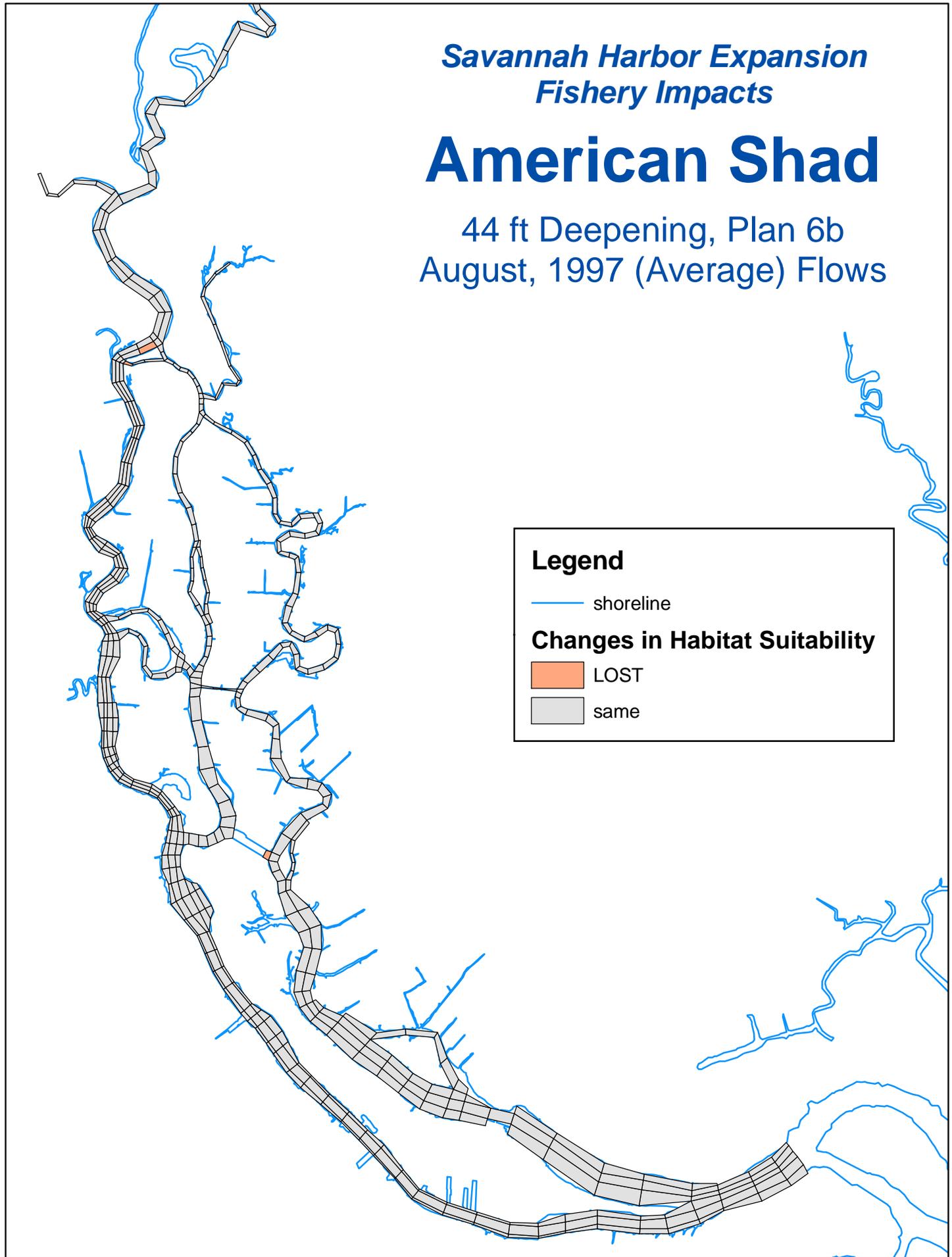
same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

44 ft Deepening, Plan 6b
August, 1997 (Average) Flows



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

44 ft Deepening, Plan 6b
April, 20th percentile flows

Legend

— shoreline

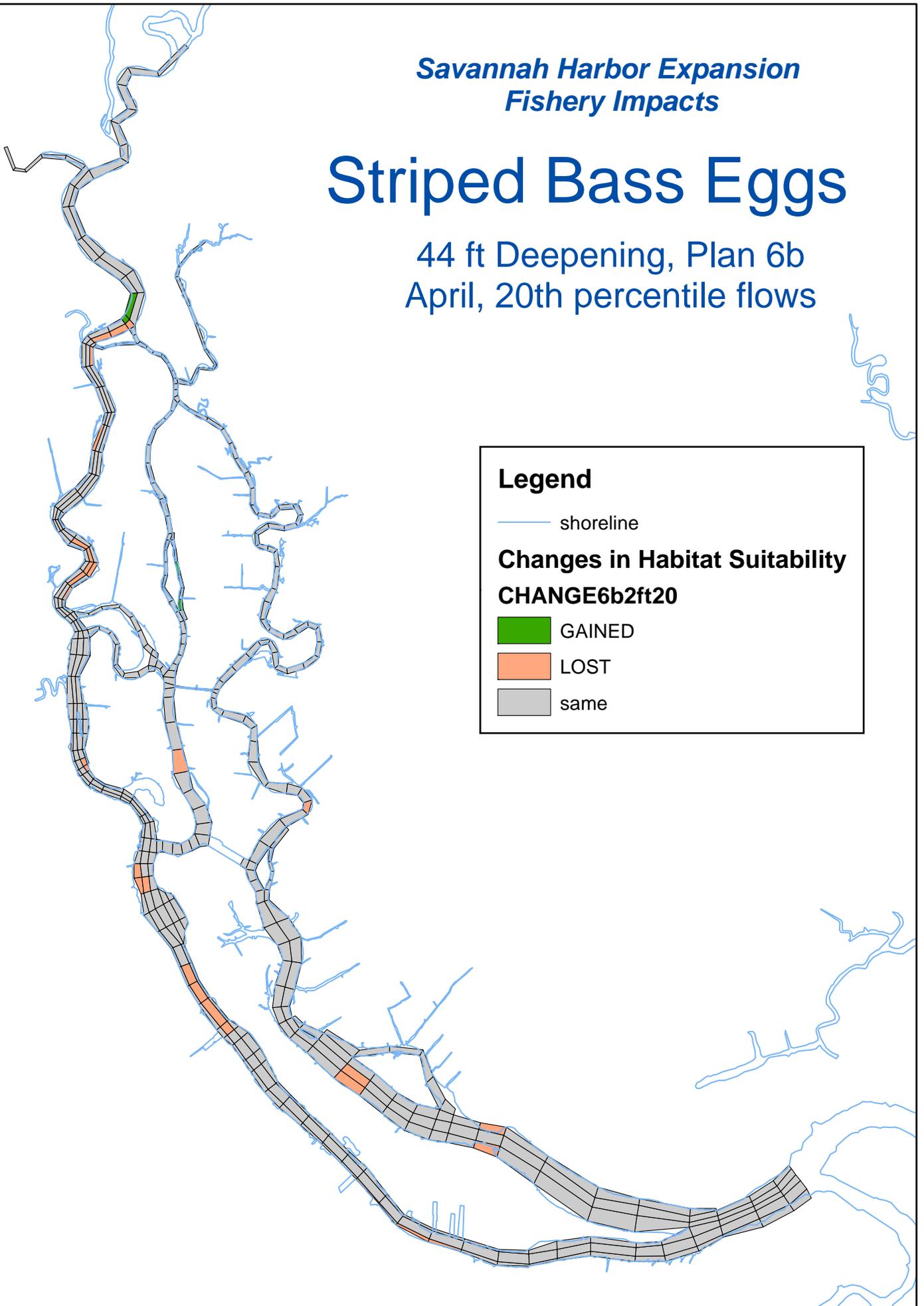
Changes in Habitat Suitability

CHANGE6b2ft20

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

44 ft Deepening, Plan 6b
April, 50th percentile flows

Legend

— shoreline

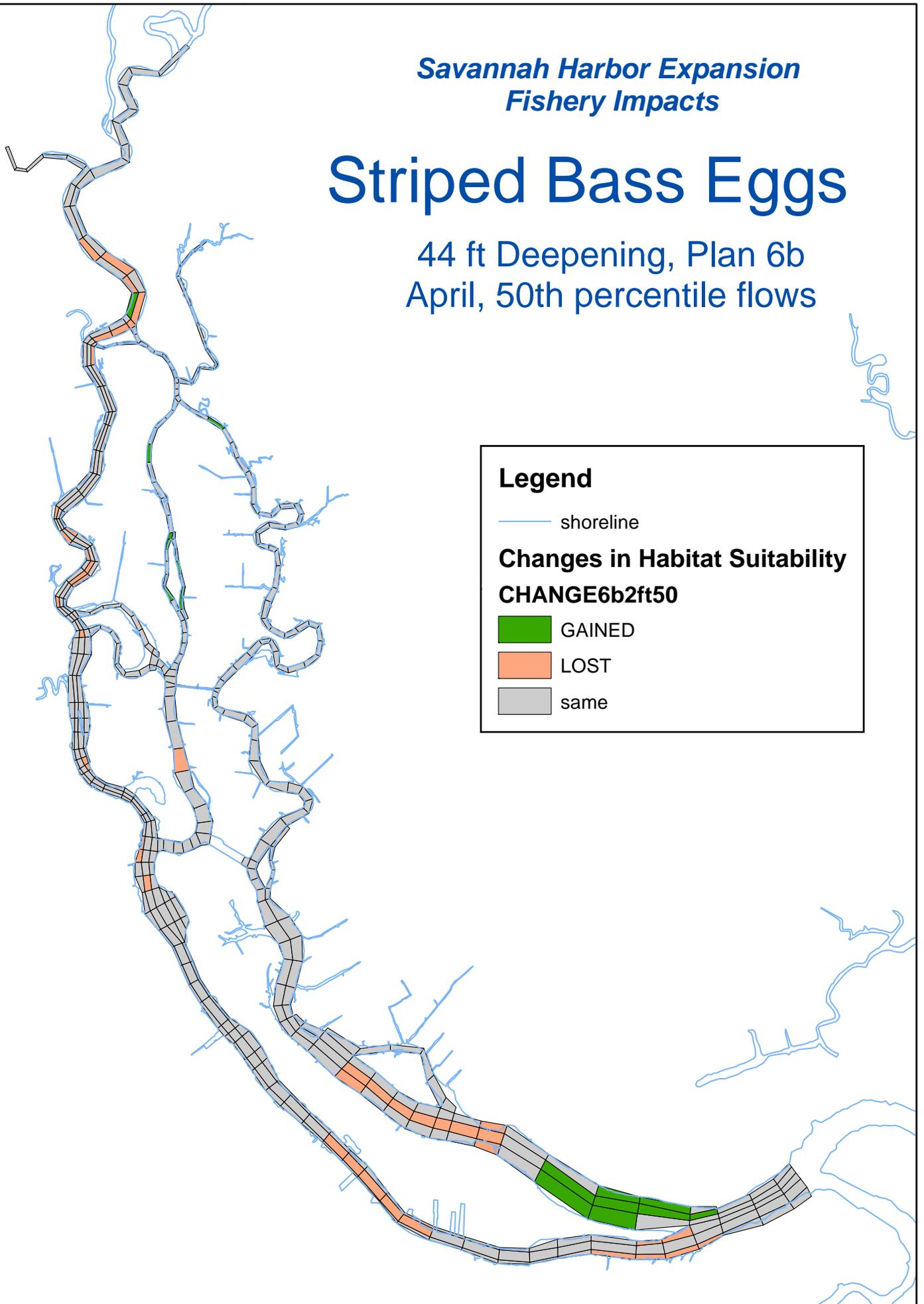
Changes in Habitat Suitability

CHANGE6b2ft50

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

44 ft Deepening, Plan 6b
April, 80th percentile flows

Legend

— shoreline

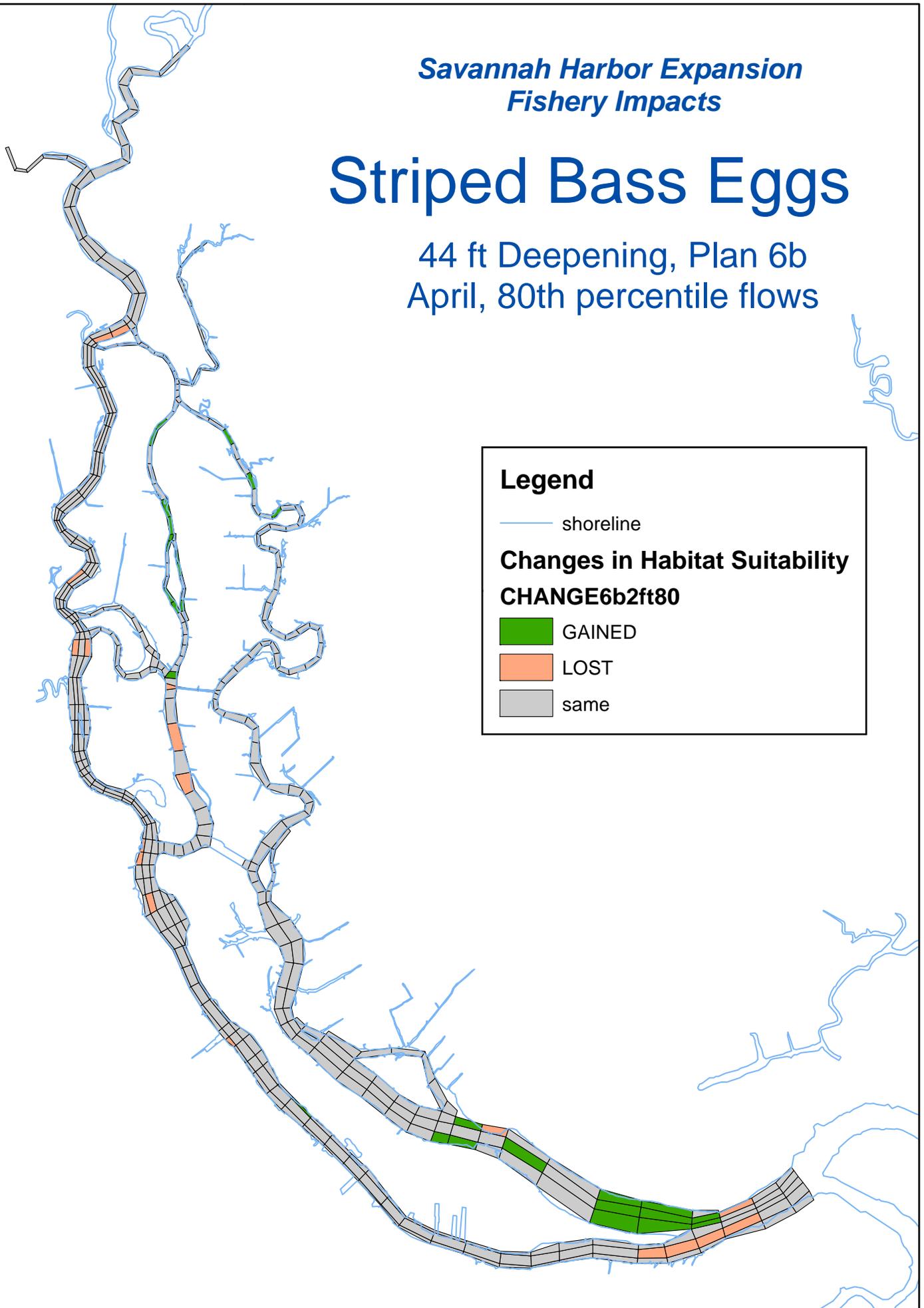
Changes in Habitat Suitability

CHANGE6b2ft80

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

44 ft Deepening, Plan 6b
May, 20th percentile flows

Legend

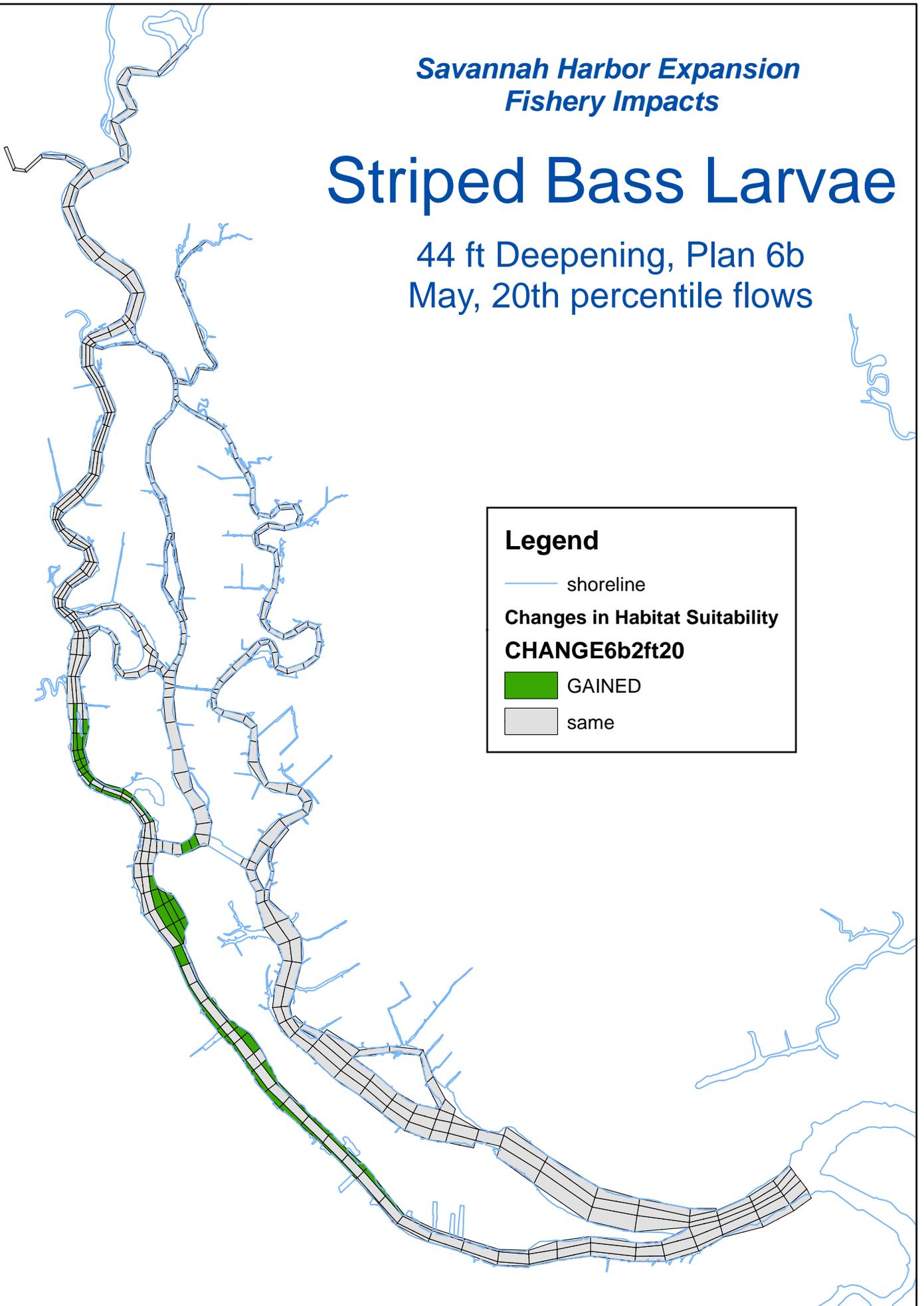
— shoreline

Changes in Habitat Suitability

CHANGE6b2ft20

 GAINED

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

44 ft Deepening, Plan 6b
May, 50th percentile flows

Legend

— shoreline

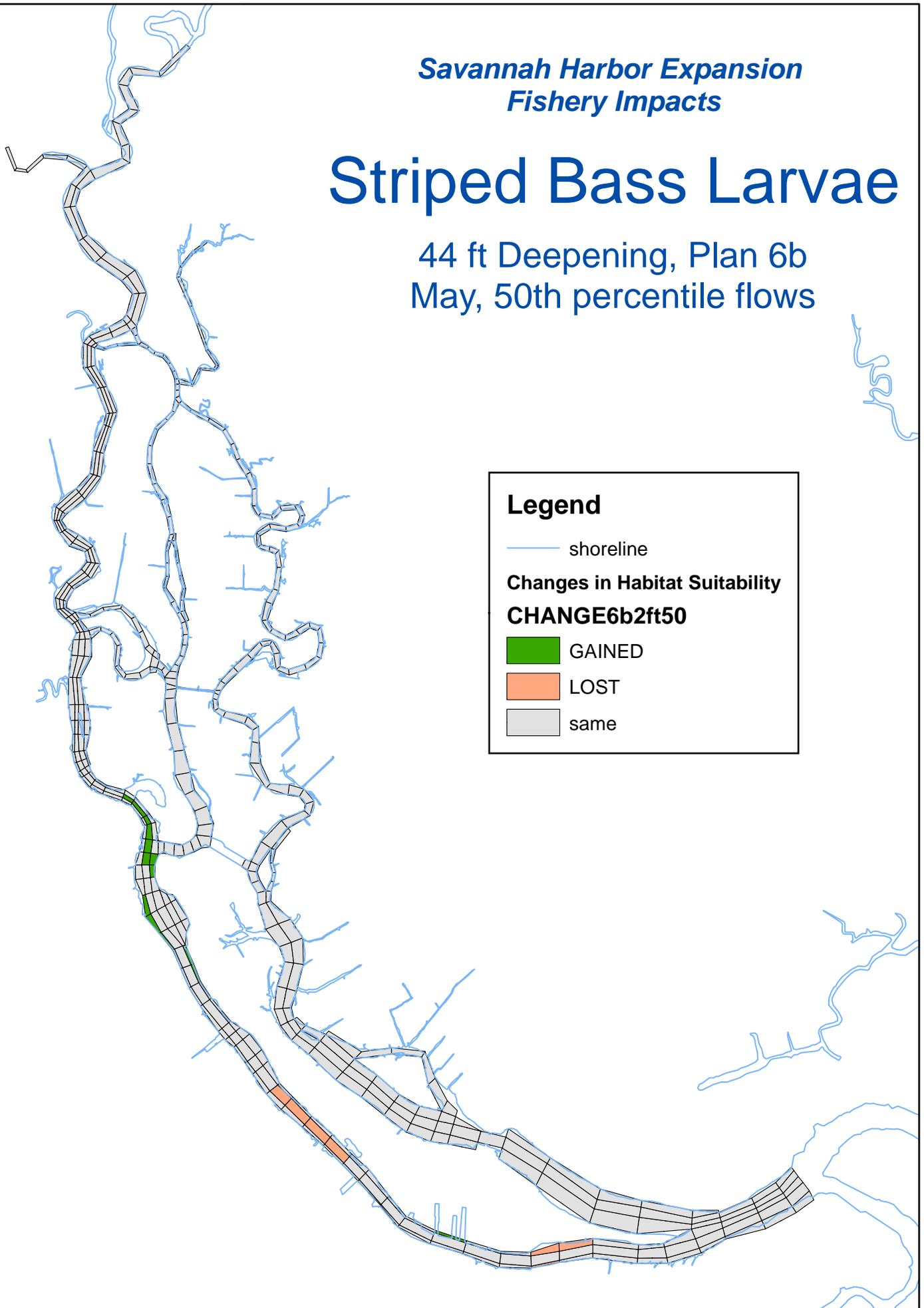
Changes in Habitat Suitability

CHANGE6b2ft50

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

44 ft Deepening, Plan 6b
May, 80th percentile flows

Legend

— shoreline

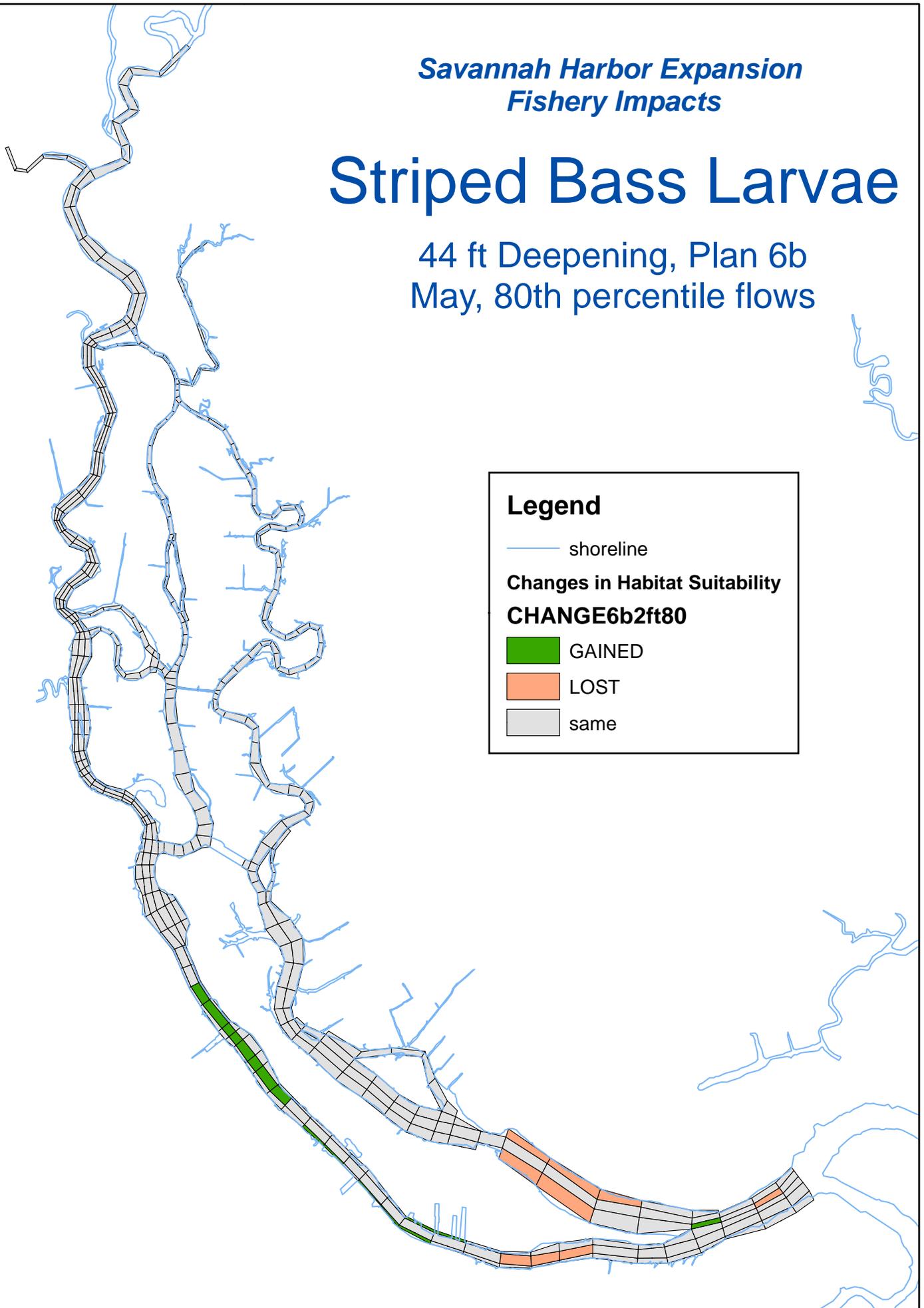
Changes in Habitat Suitability

CHANGE6b2ft80

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

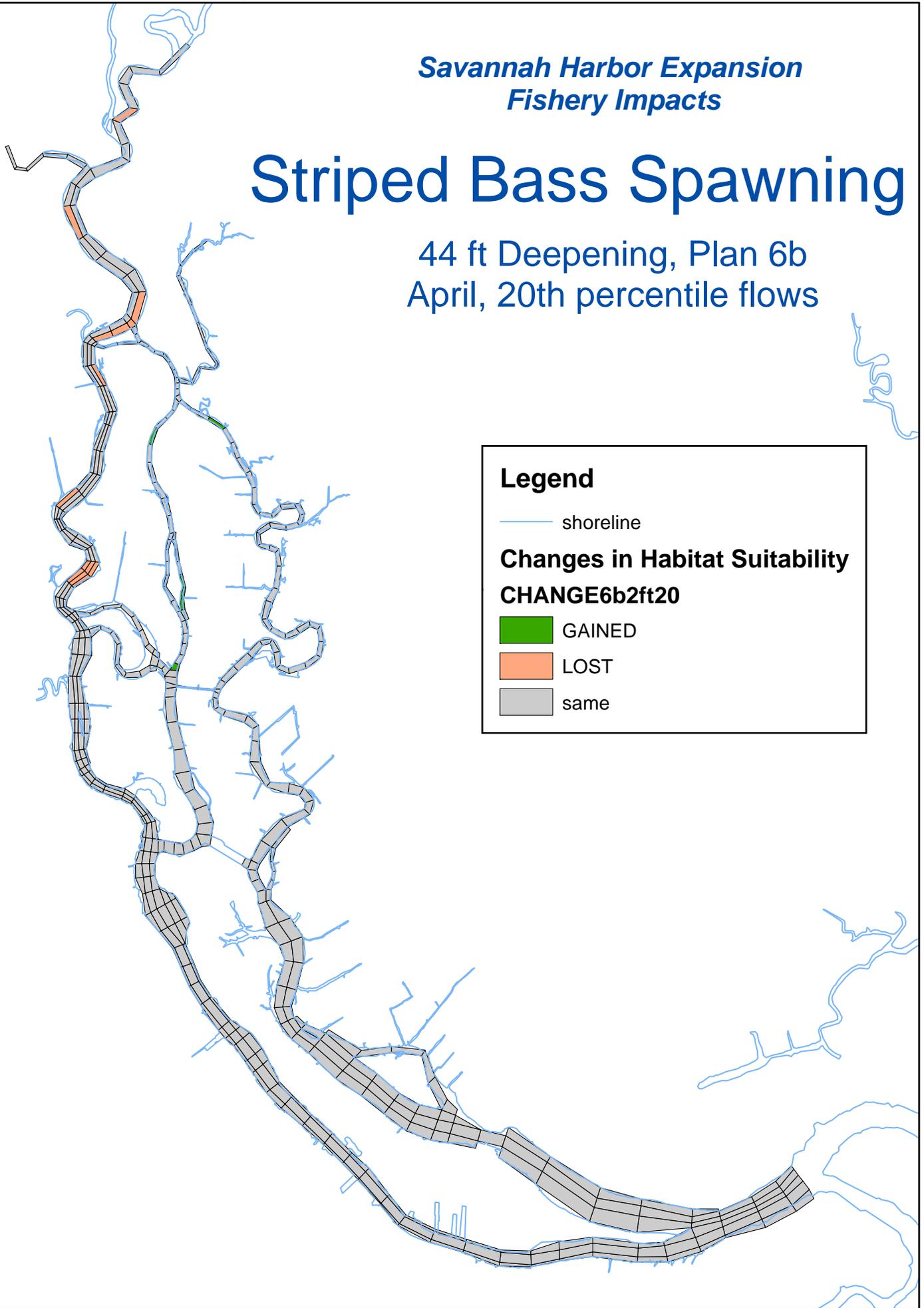
44 ft Deepening, Plan 6b
April, 20th percentile flows

Legend

— shoreline

Changes in Habitat Suitability
CHANGE6b2ft20

	GAINED
	LOST
	same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

44 ft Deepening, Plan 6b
April, 50th percentile flows

Legend

— shoreline

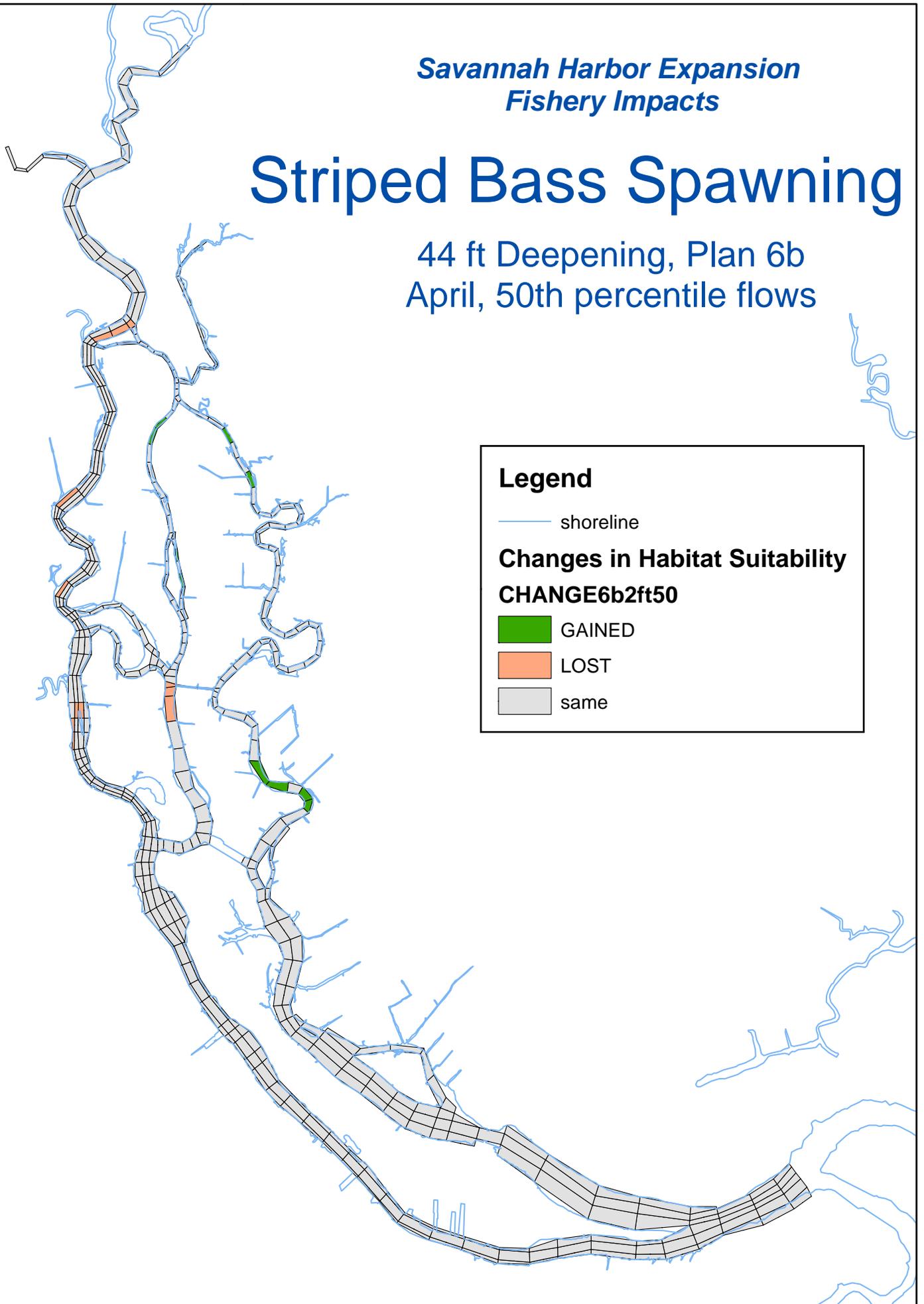
Changes in Habitat Suitability

CHANGE6b2ft50

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

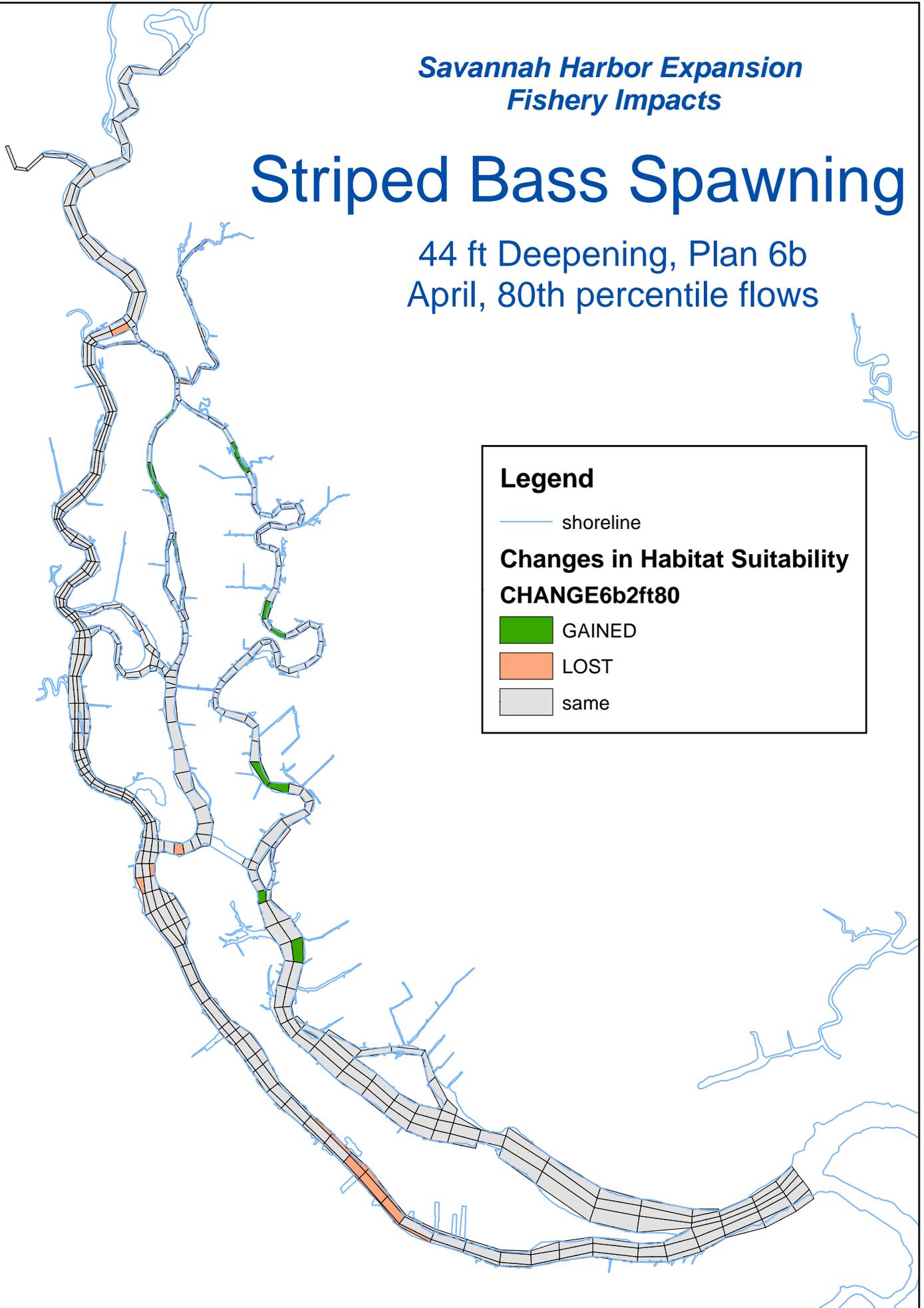
44 ft Deepening, Plan 6b
April, 80th percentile flows

Legend

— shoreline

Changes in Habitat Suitability
CHANGE6b2ft80

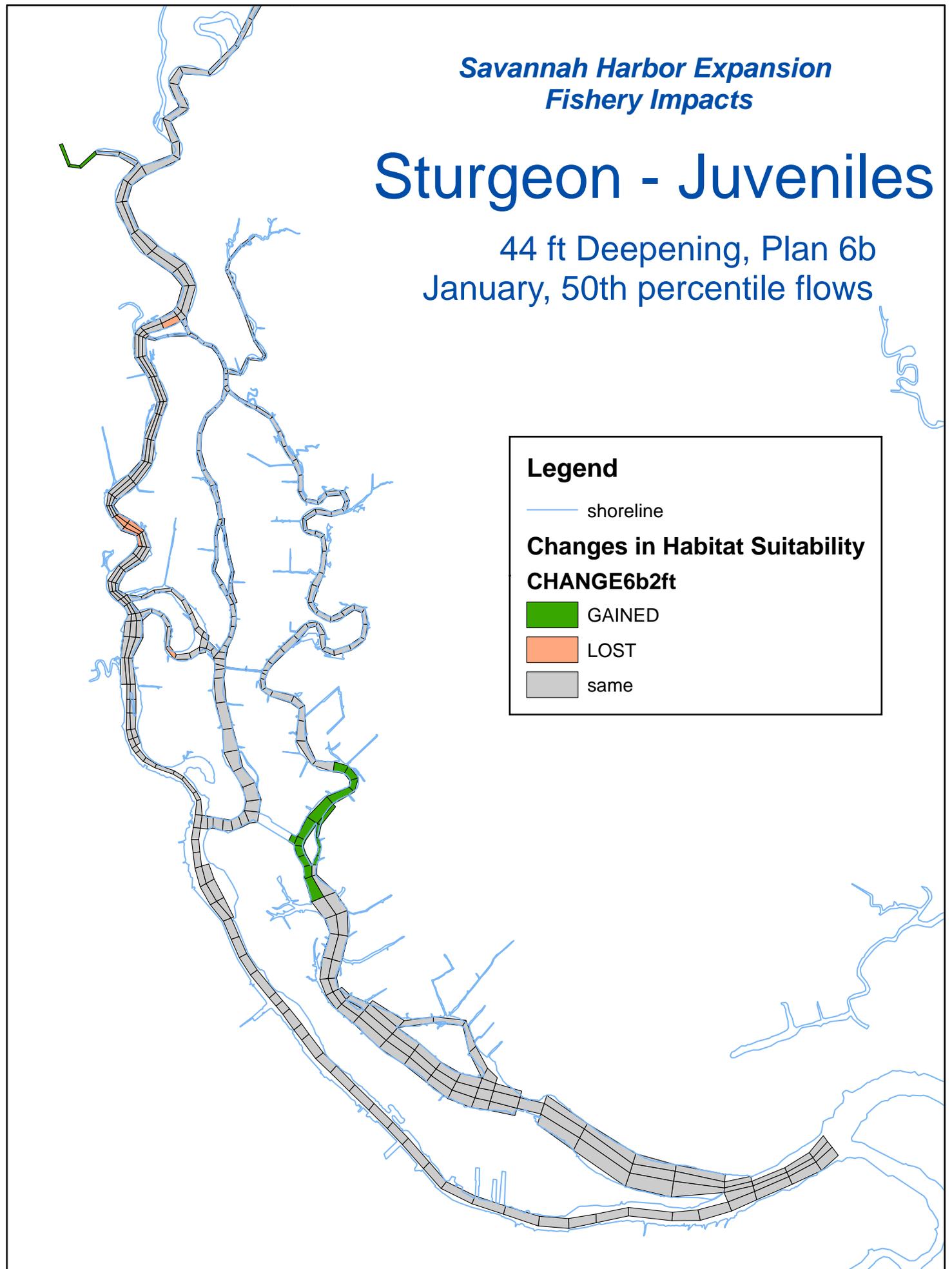
	GAINED
	LOST
	same



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Juveniles

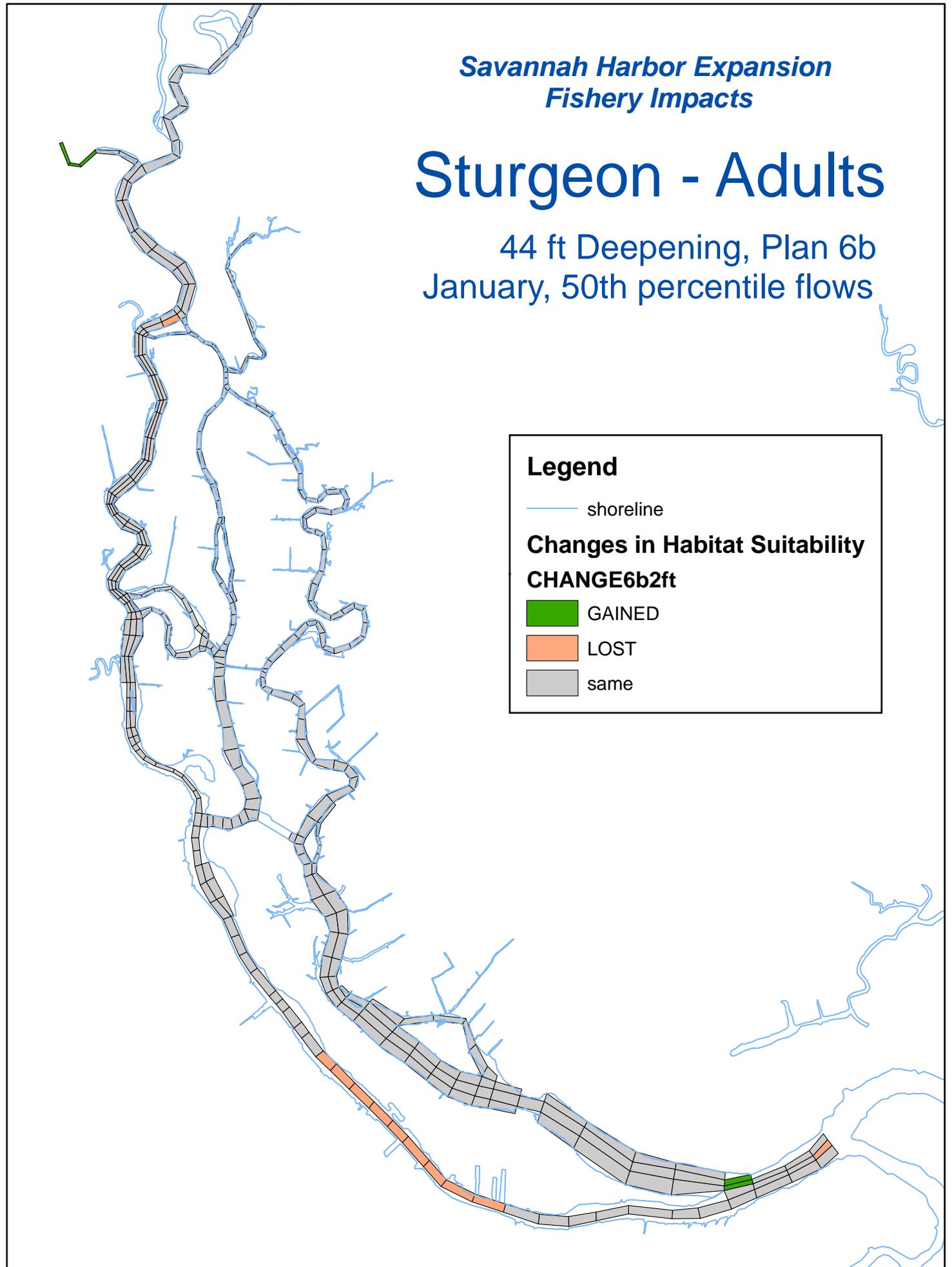
44 ft Deepening, Plan 6b
January, 50th percentile flows



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

44 ft Deepening, Plan 6b
January, 50th percentile flows



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

44 ft Deepening, Plan 6b
August, 1997 (Average) Flows

Legend

— shoreline

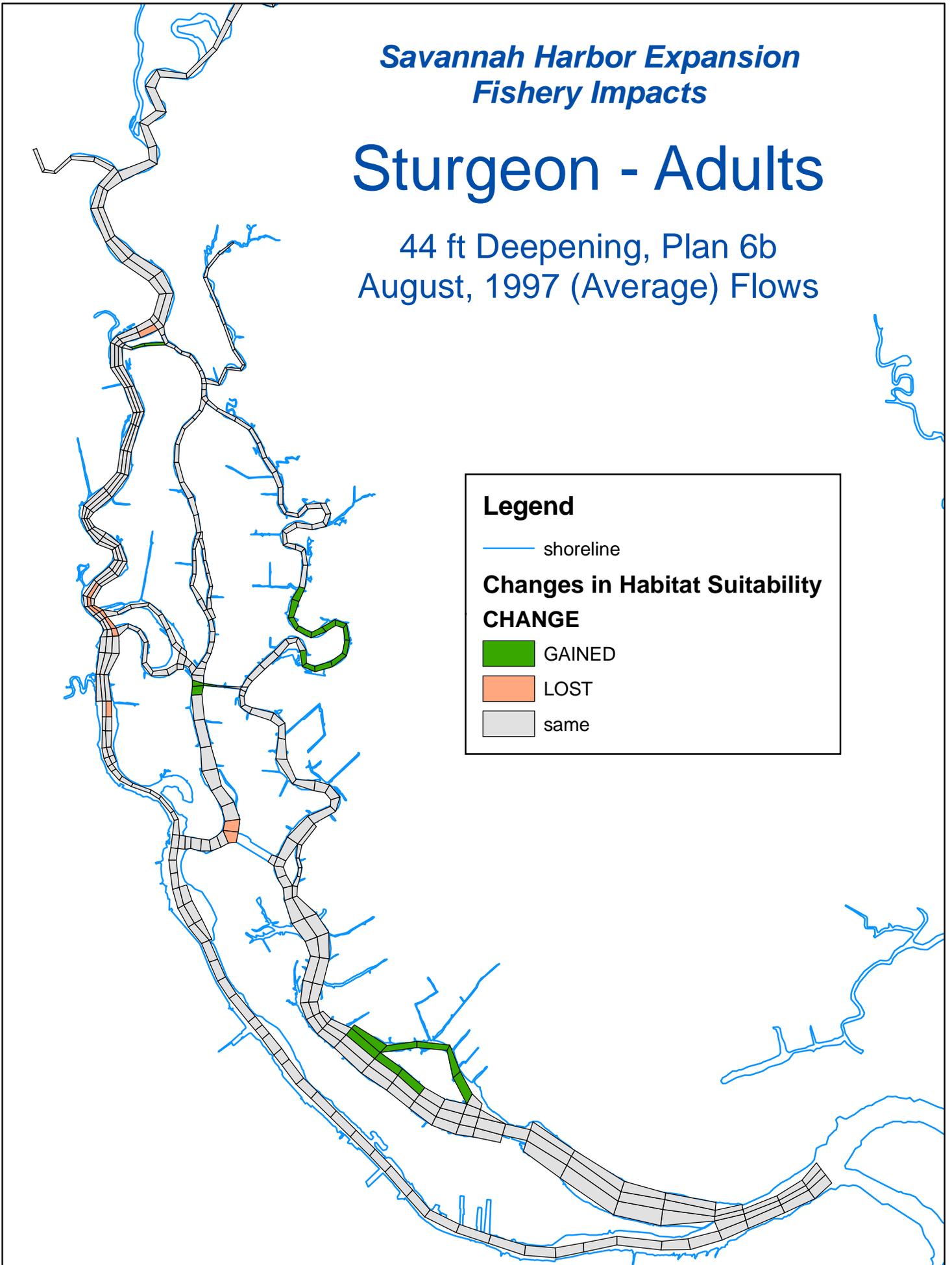
Changes in Habitat Suitability

CHANGE

■ GAINED

■ LOST

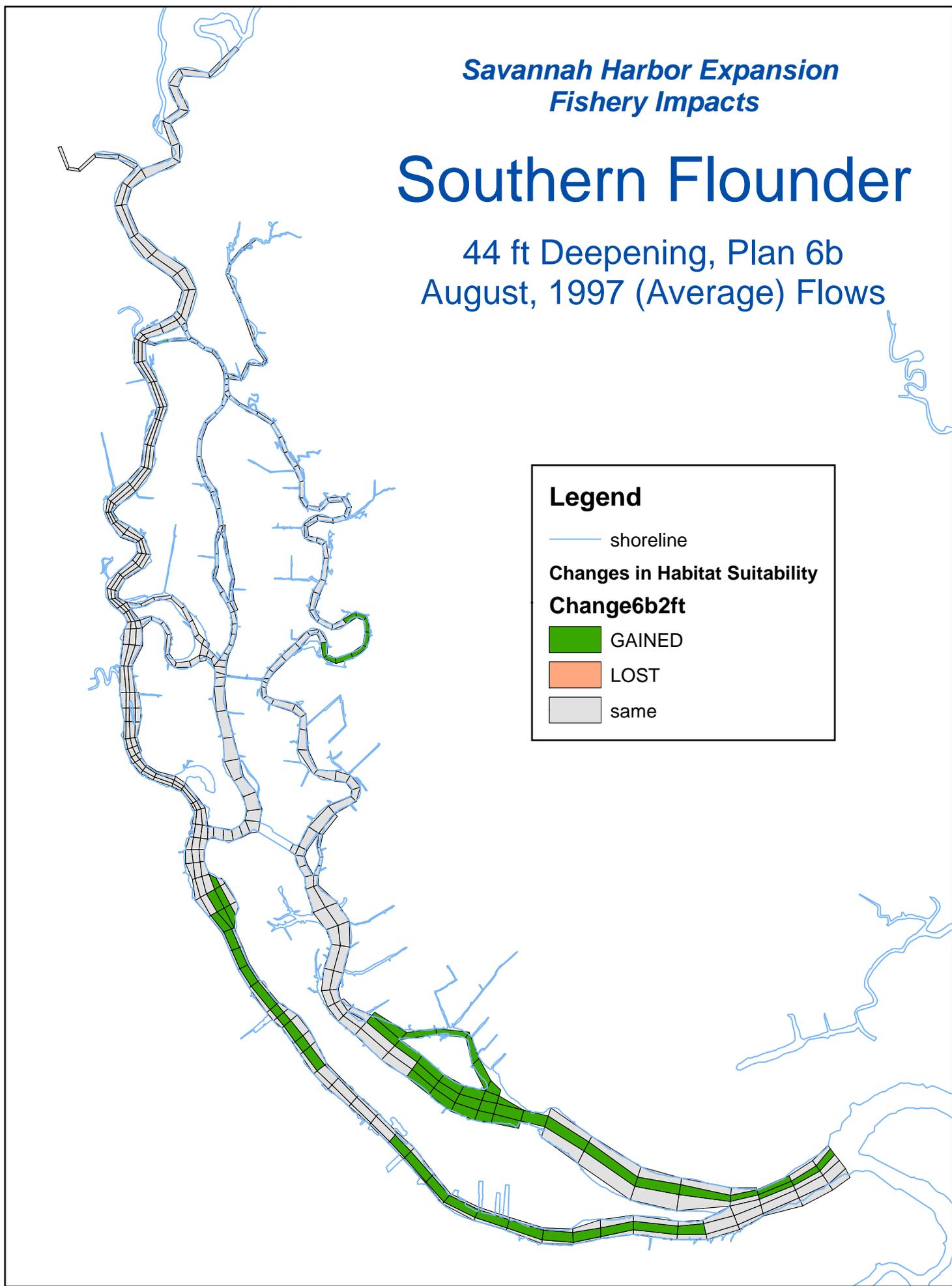
■ same



*Savannah Harbor Expansion
Fishery Impacts*

Southern Flounder

44 ft Deepening, Plan 6b
August, 1997 (Average) Flows



Legend

— shoreline

Changes in Habitat Suitability

Change6b2ft

GAINED

LOST

same

45 ft Channel Depth

Mitigation Plan 6a

*Savannah Harbor Expansion
Fishery Impacts*

American Shad

45 ft Deepening, Plan 6a
May 20th percentile flow

Legend

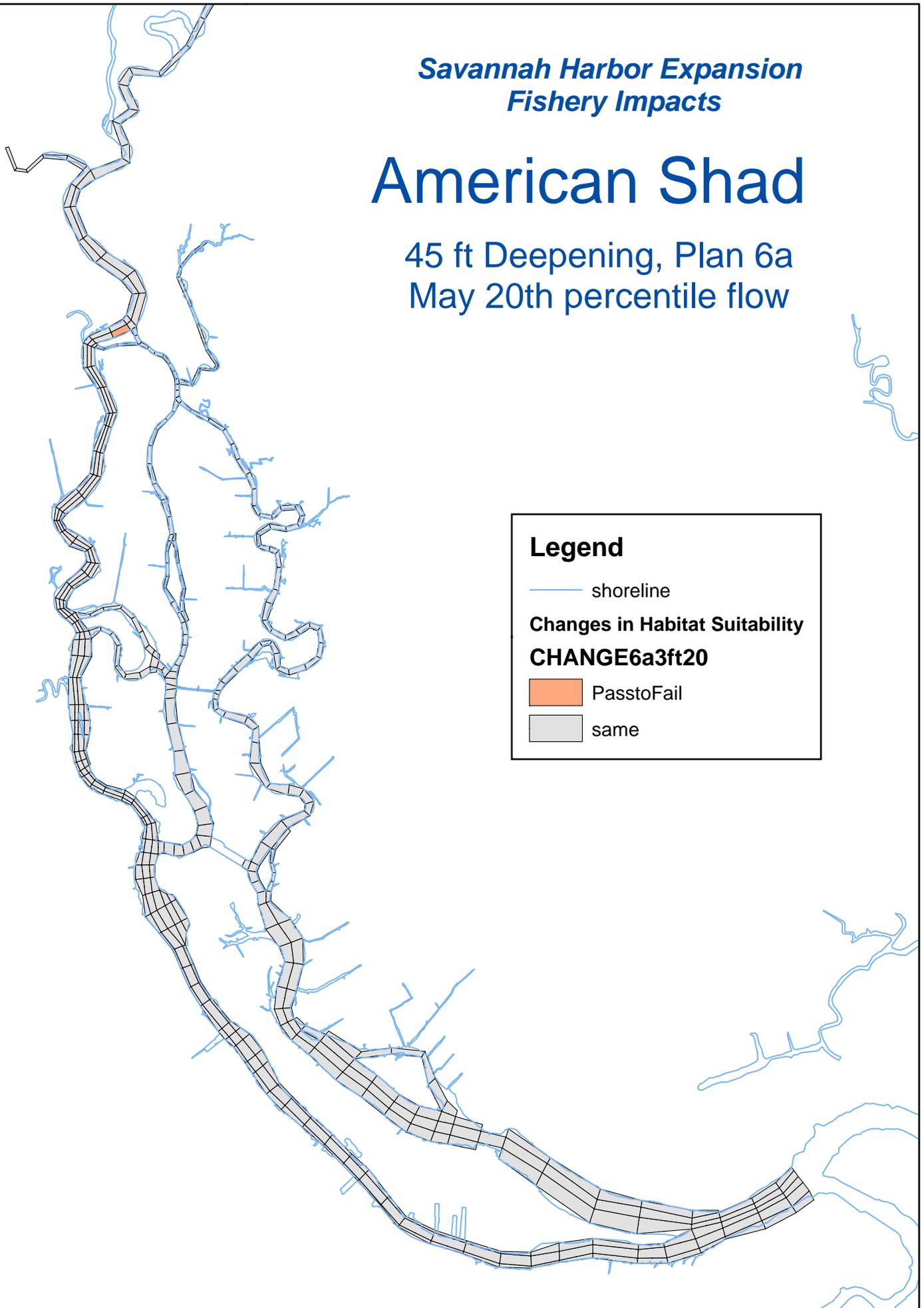
— shoreline

Changes in Habitat Suitability

CHANGE6a3ft20

■ PasstoFail

■ same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

45 ft Deepening, Plan 6a
May 50th percentile flow

Legend

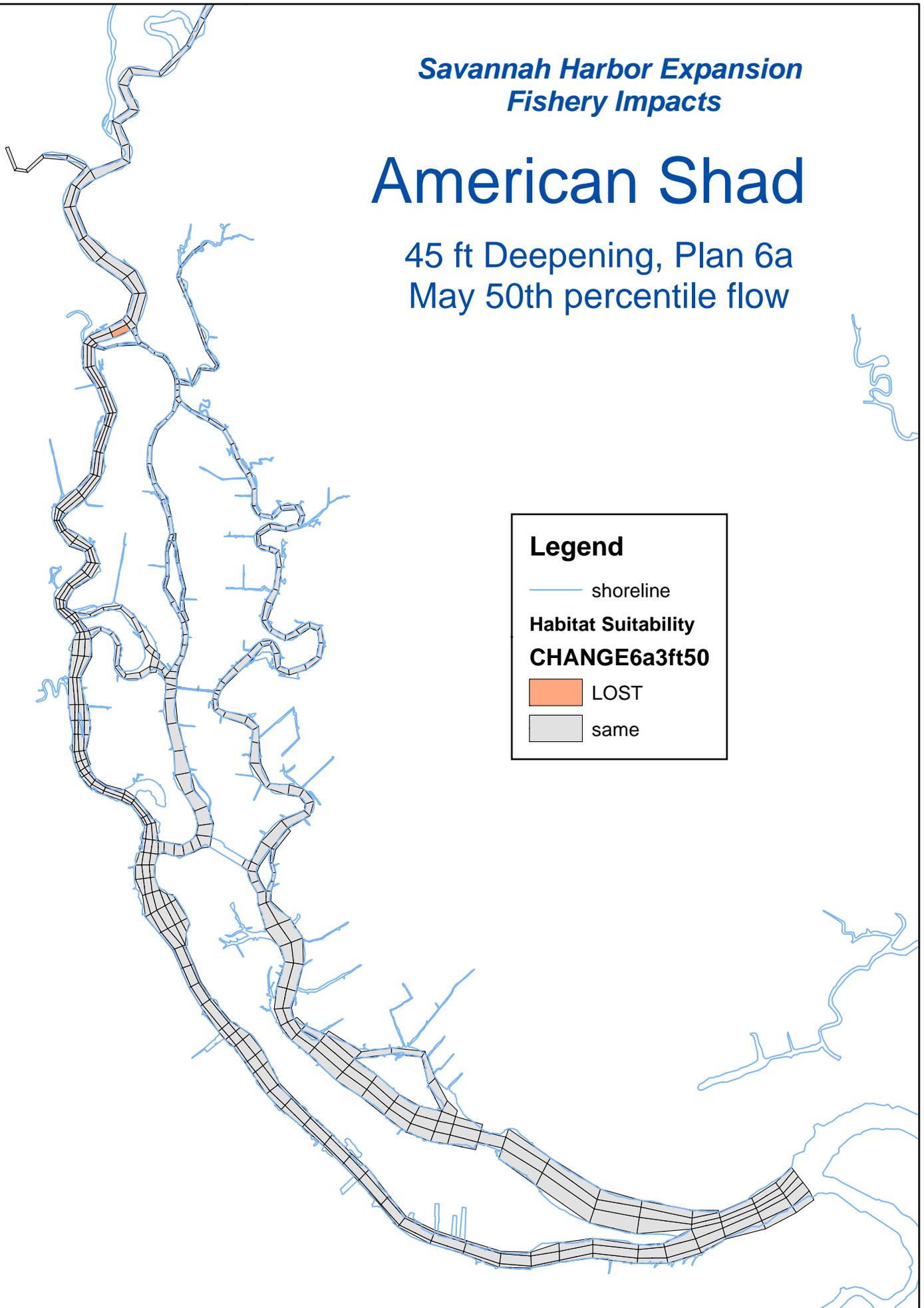
— shoreline

Habitat Suitability

CHANGE6a3ft50

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

45 ft Deepening, Plan 6a
May 80th percentile flow

Legend

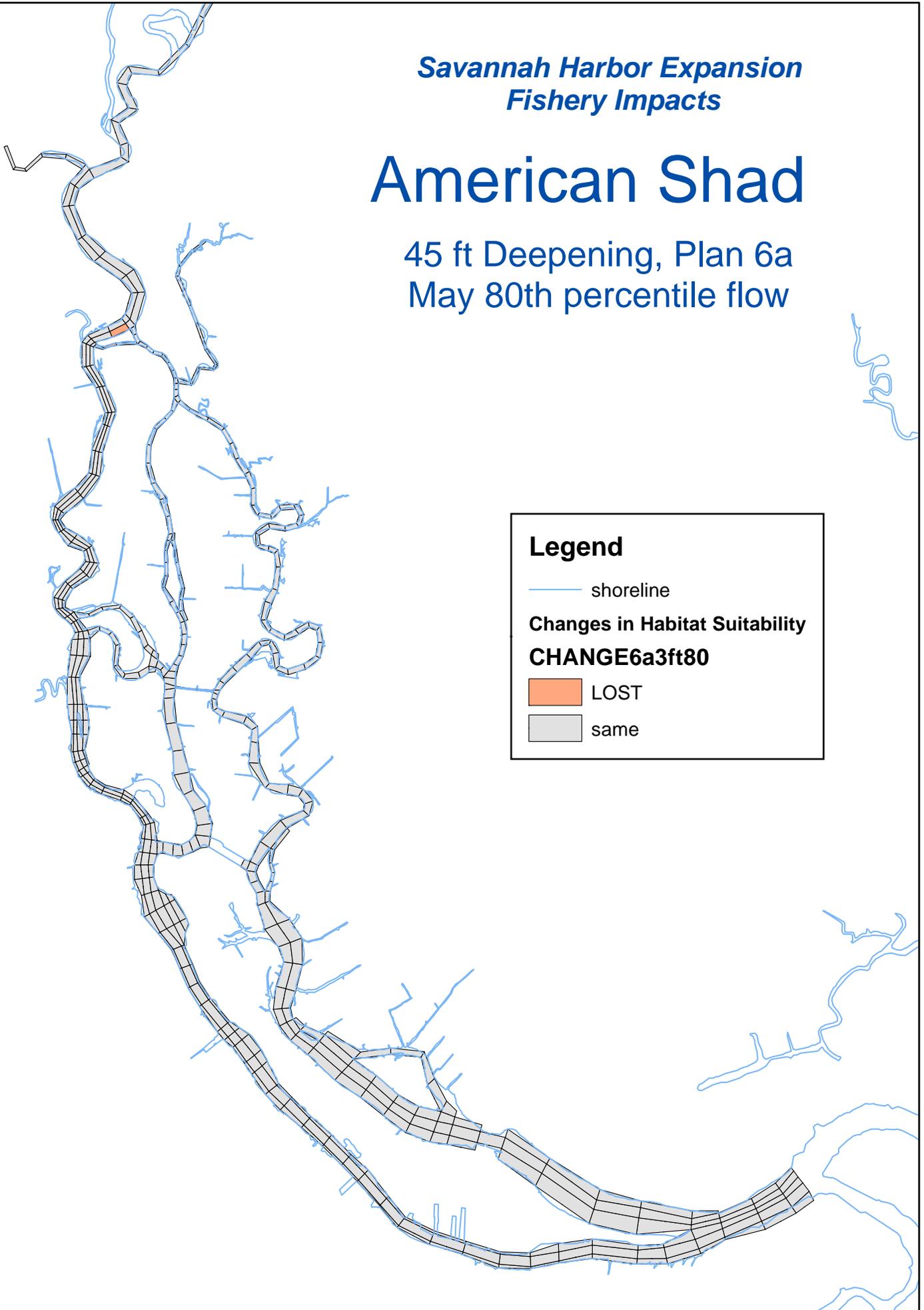
— shoreline

Changes in Habitat Suitability

CHANGE6a3ft80

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

45 ft Deepening, Plan 6a
January 50th percentile flow

Legend

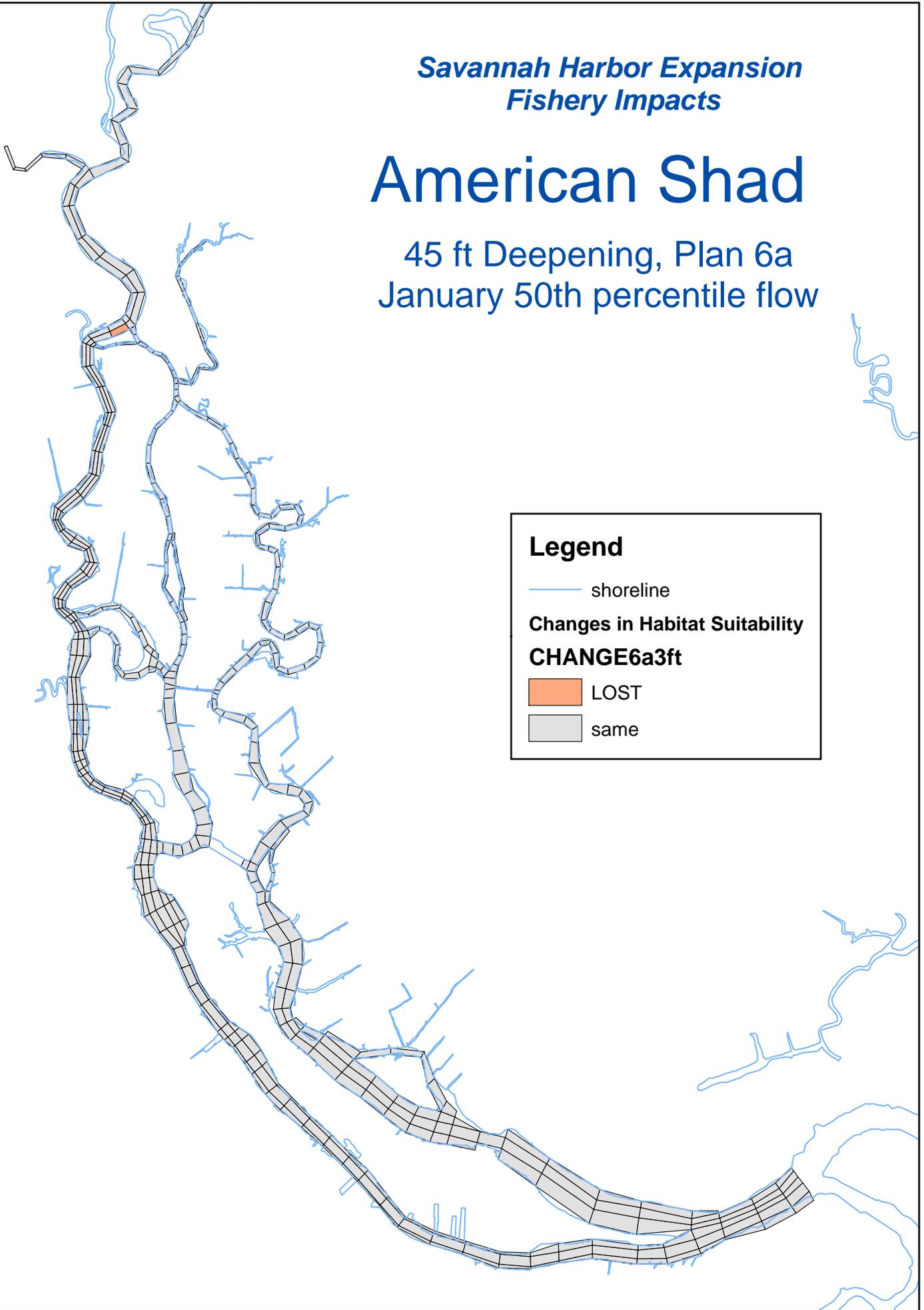
— shoreline

Changes in Habitat Suitability

CHANGE6a3ft

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

45 ft Deepening, Plan 6a
August, 1997 (Average) Flows

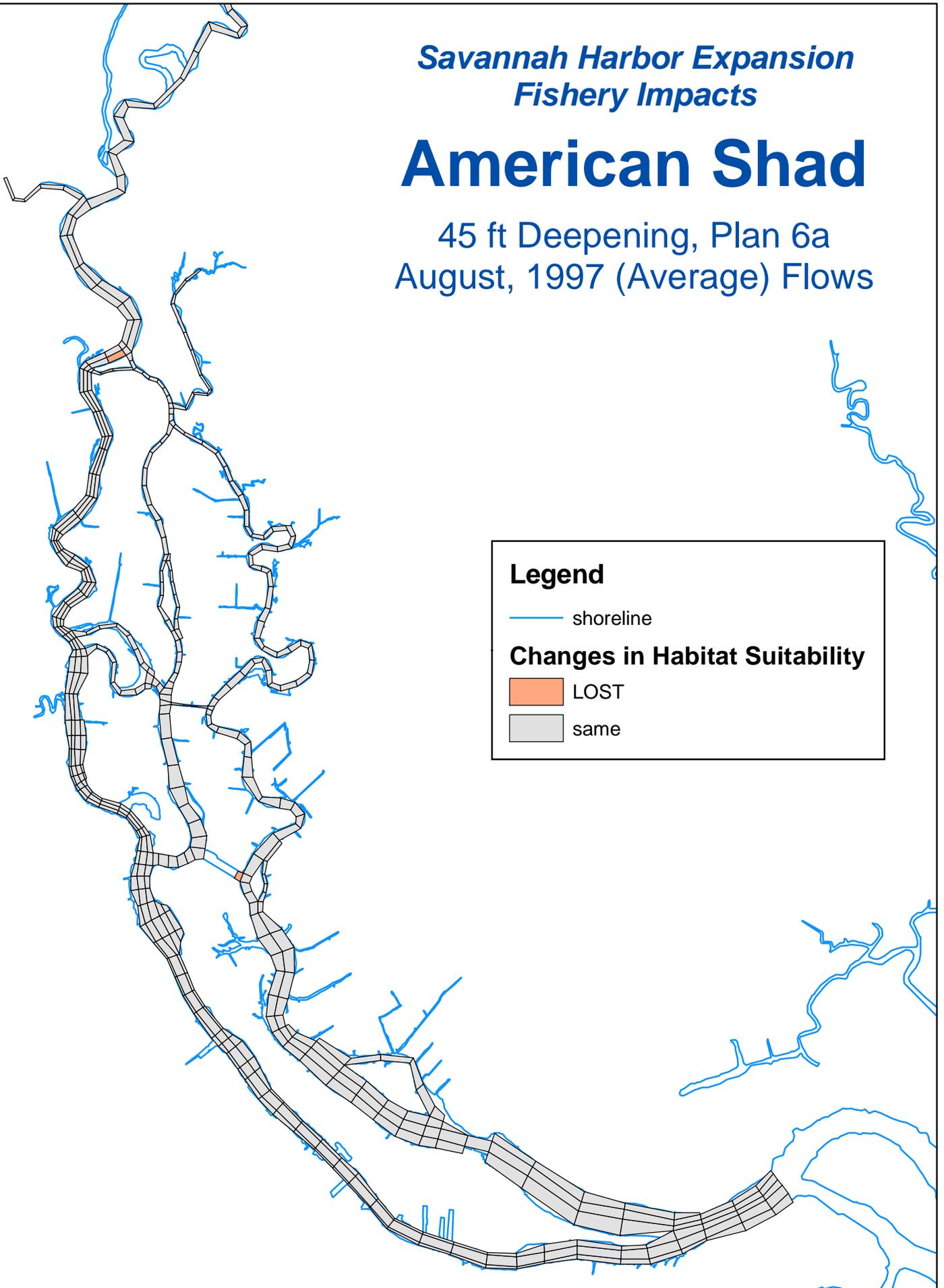
Legend

— shoreline

Changes in Habitat Suitability

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

45 ft Deepening, Plan 6a
April, 20th percentile flows

Legend

— shoreline

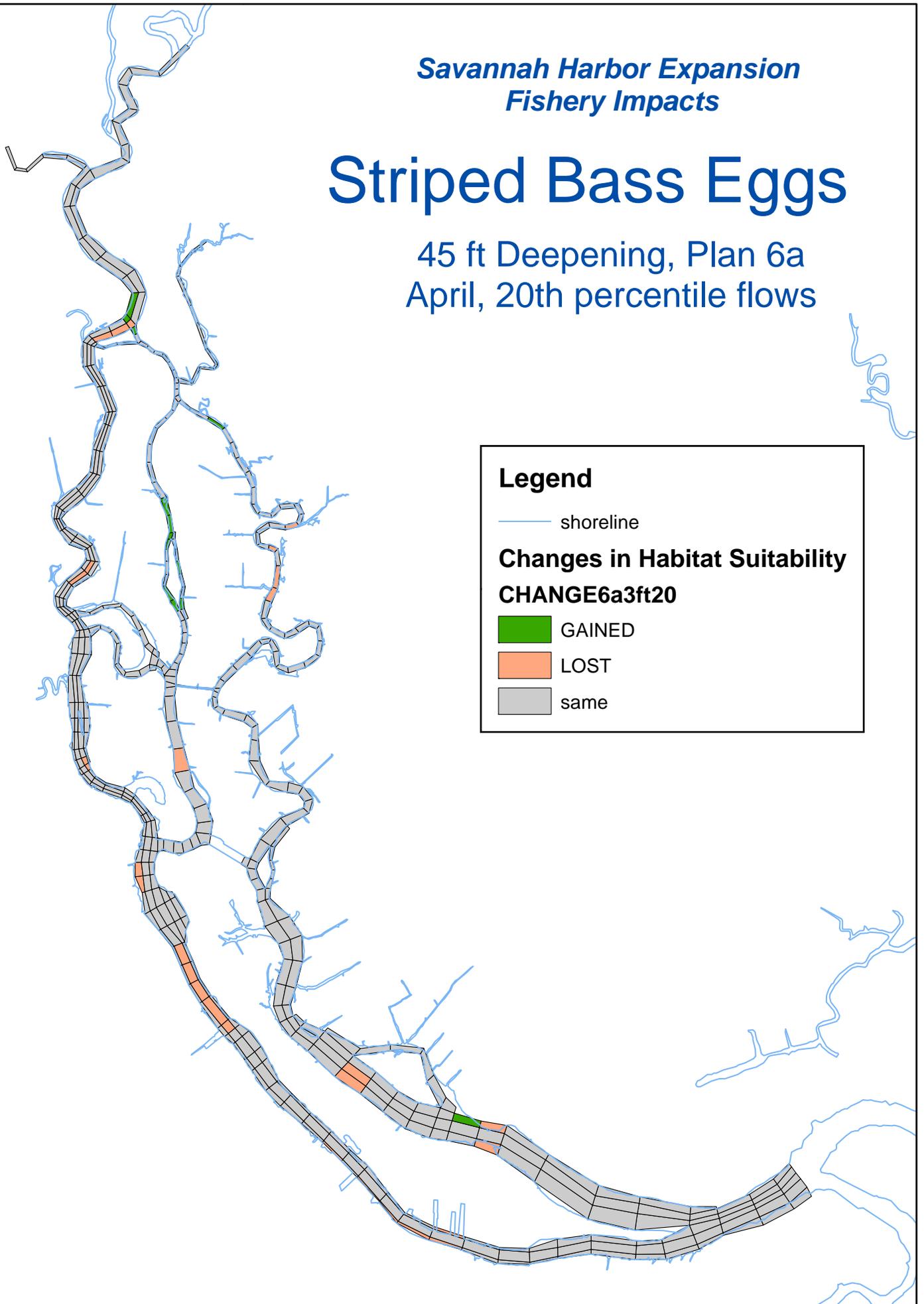
Changes in Habitat Suitability

CHANGE6a3ft20

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

45 ft Deepening, Plan 6a
April, 50th percentile flows

Legend

— shoreline

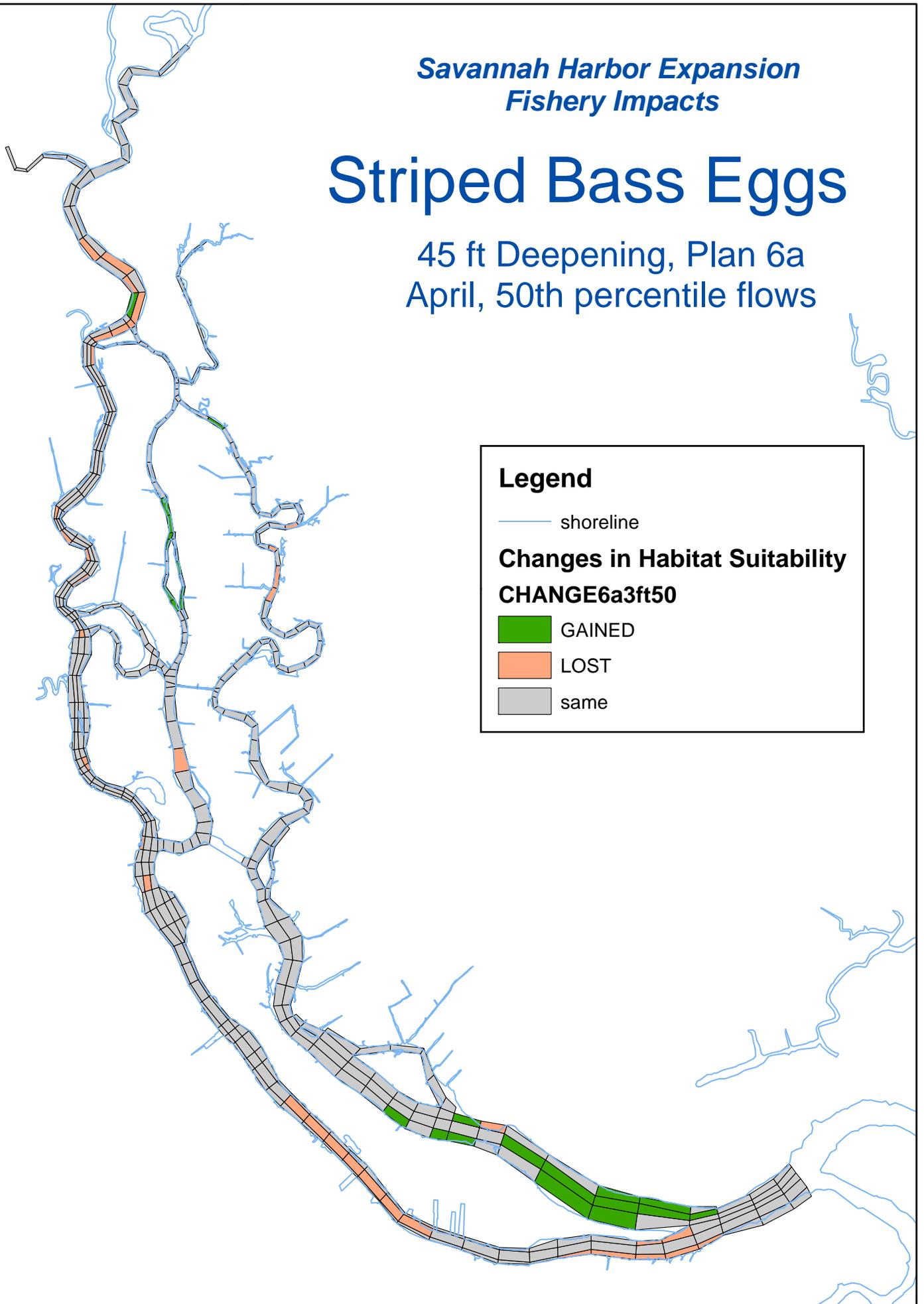
Changes in Habitat Suitability

CHANGE6a3ft50

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

45 ft Deepening, Plan 6a
April, 80th percentile flows

Legend

— shoreline

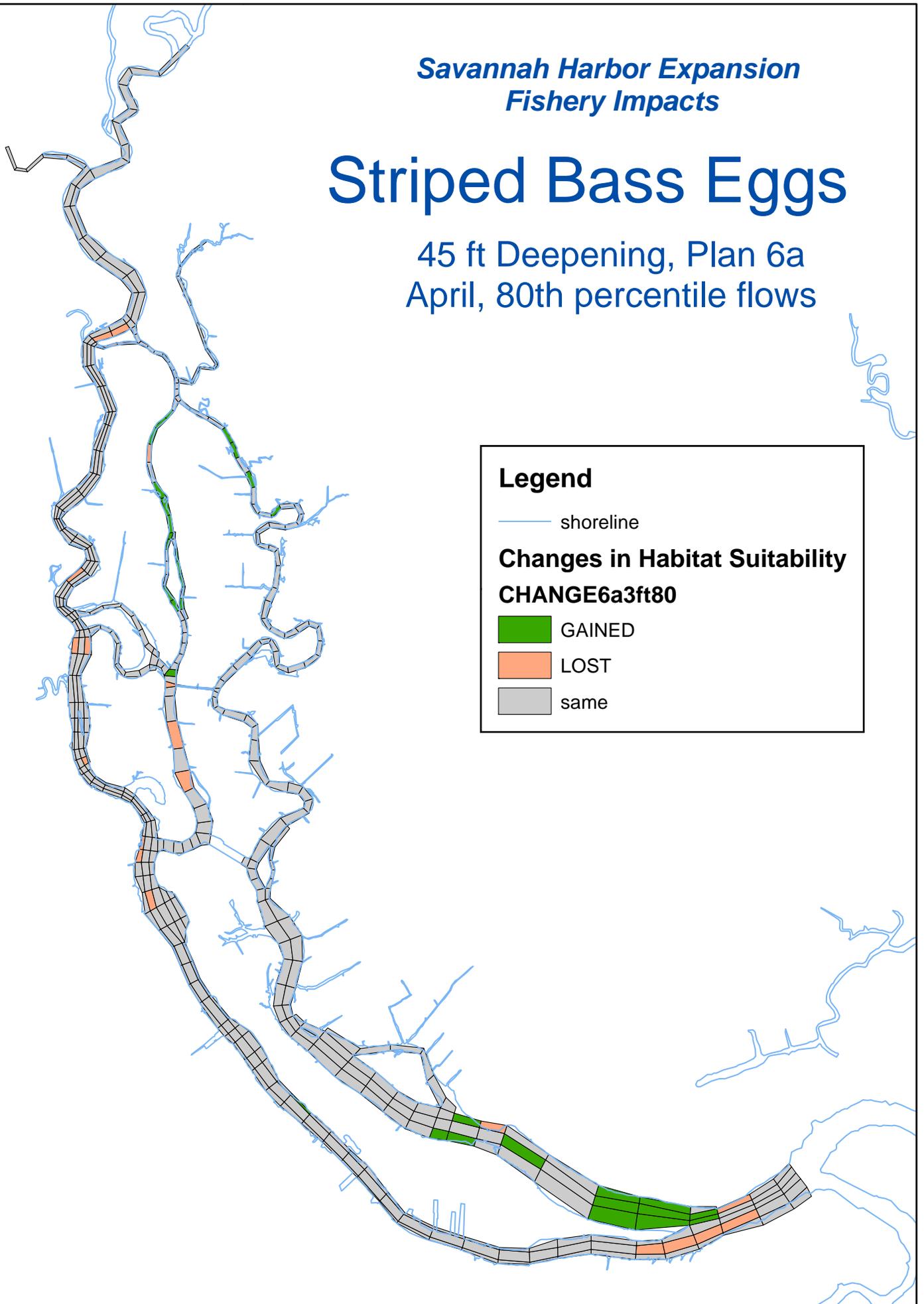
Changes in Habitat Suitability

CHANGE6a3ft80

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

45 ft Deepening, Plan 6a
May, 20th percentile flows

Legend

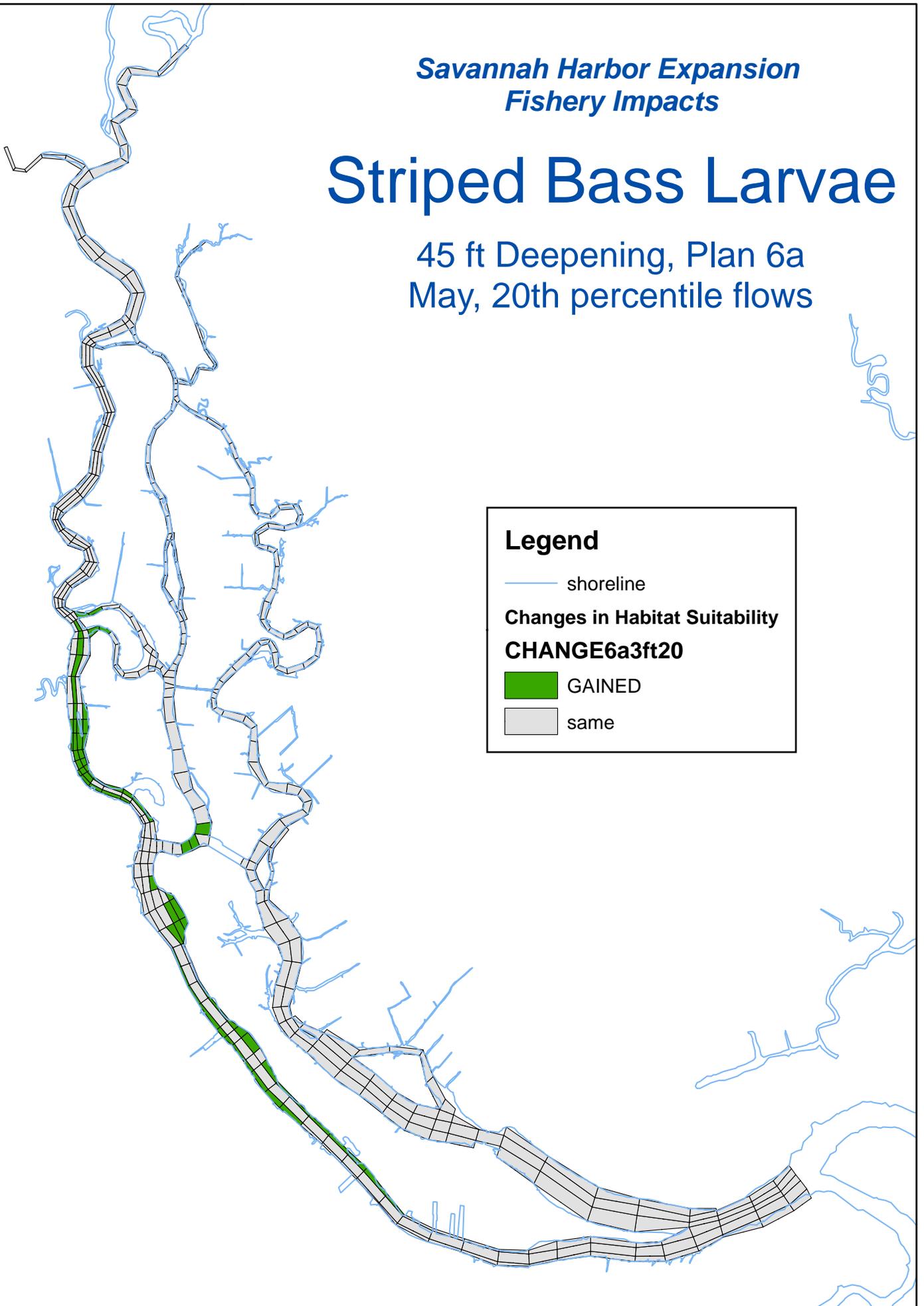
— shoreline

Changes in Habitat Suitability

CHANGE6a3ft20

 GAINED

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

45 ft Deepening, Plan 6a
May, 50th percentile flows

Legend

— shoreline

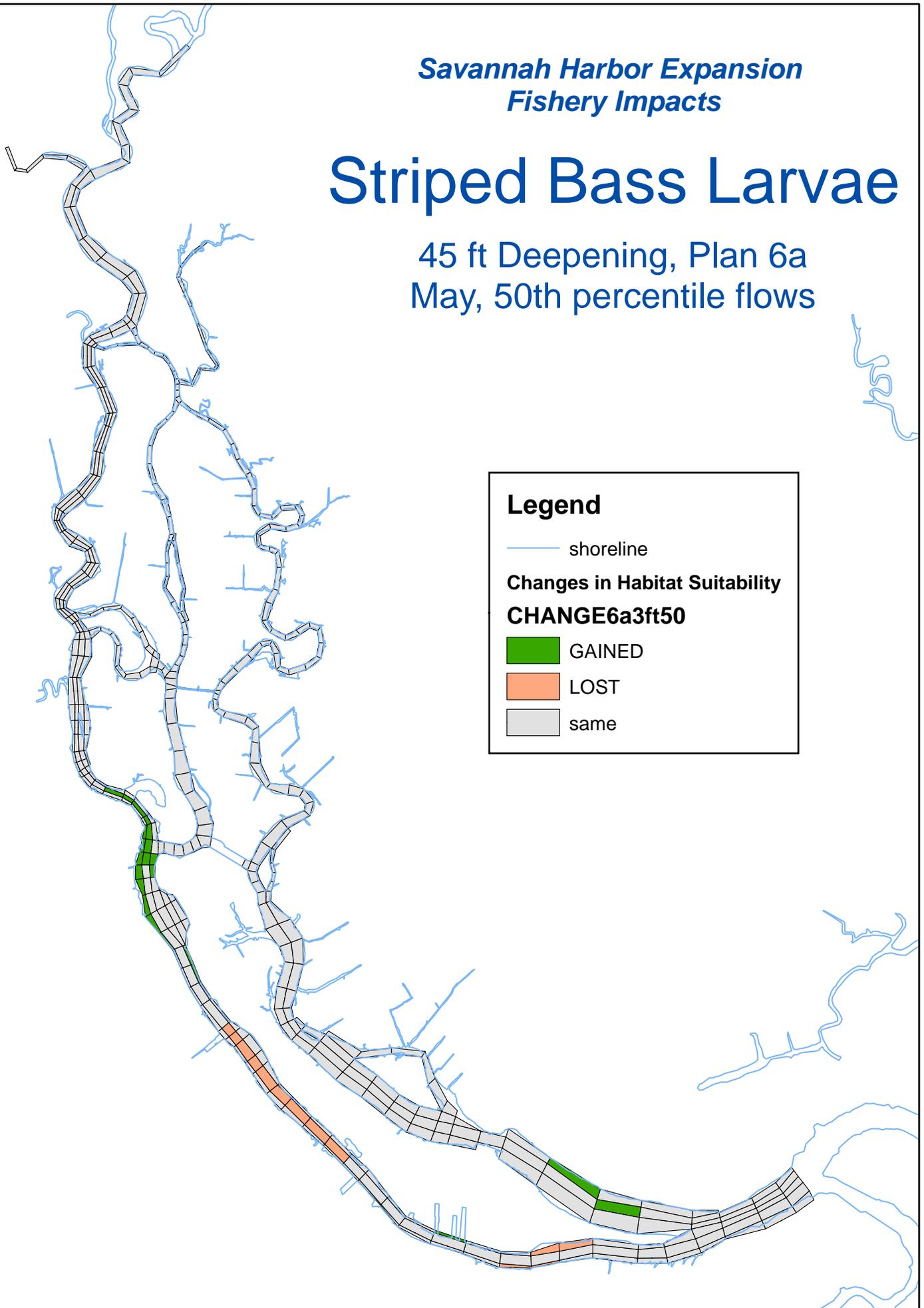
Changes in Habitat Suitability

CHANGE6a3ft50

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

45 ft Deepening, Plan 6a
May, 80th percentile flows

Legend

— shoreline

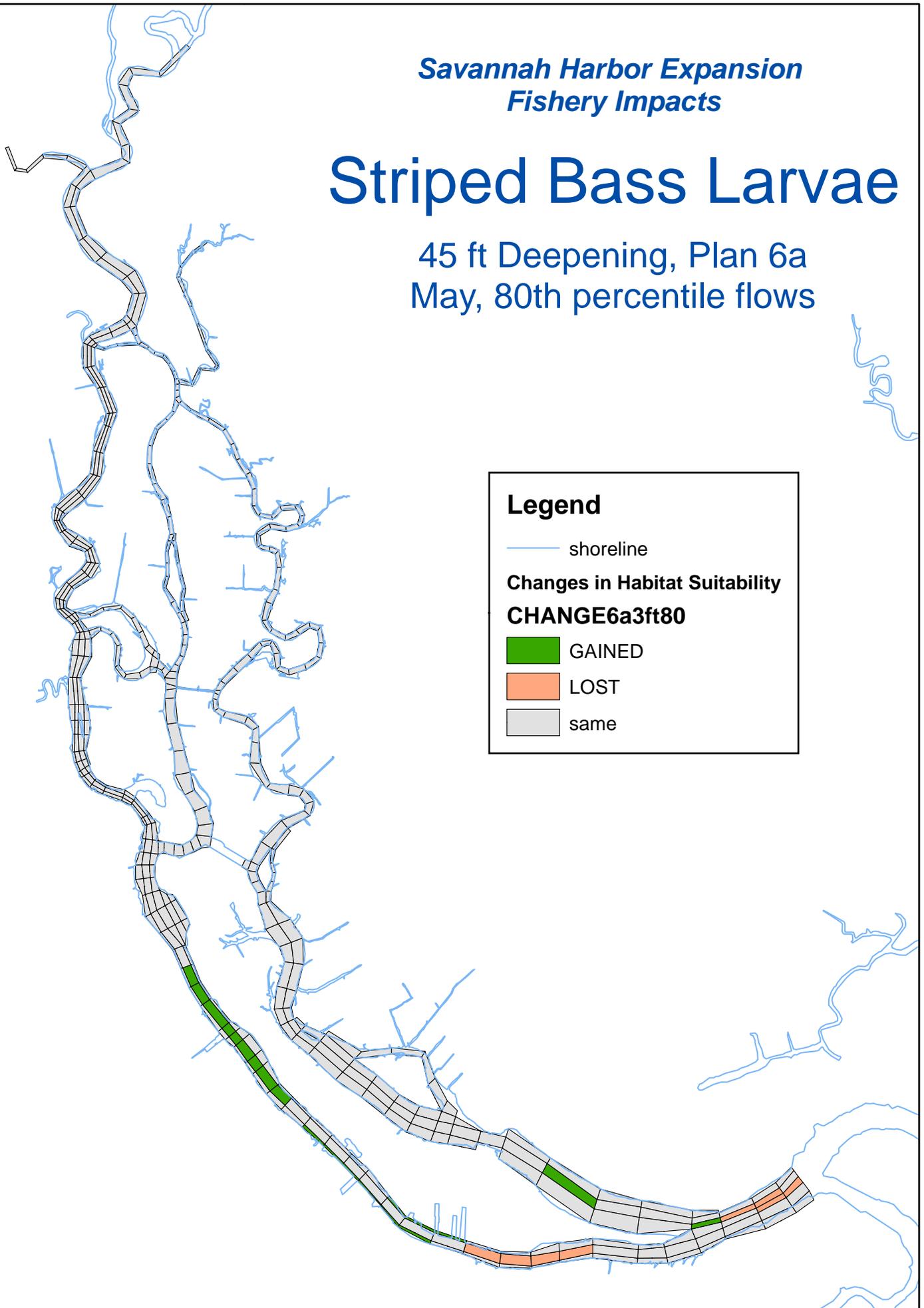
Changes in Habitat Suitability

CHANGE6a3ft80

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

45 ft Deepening, Plan 6a
April, 20th percentile flows

Legend

— shoreline

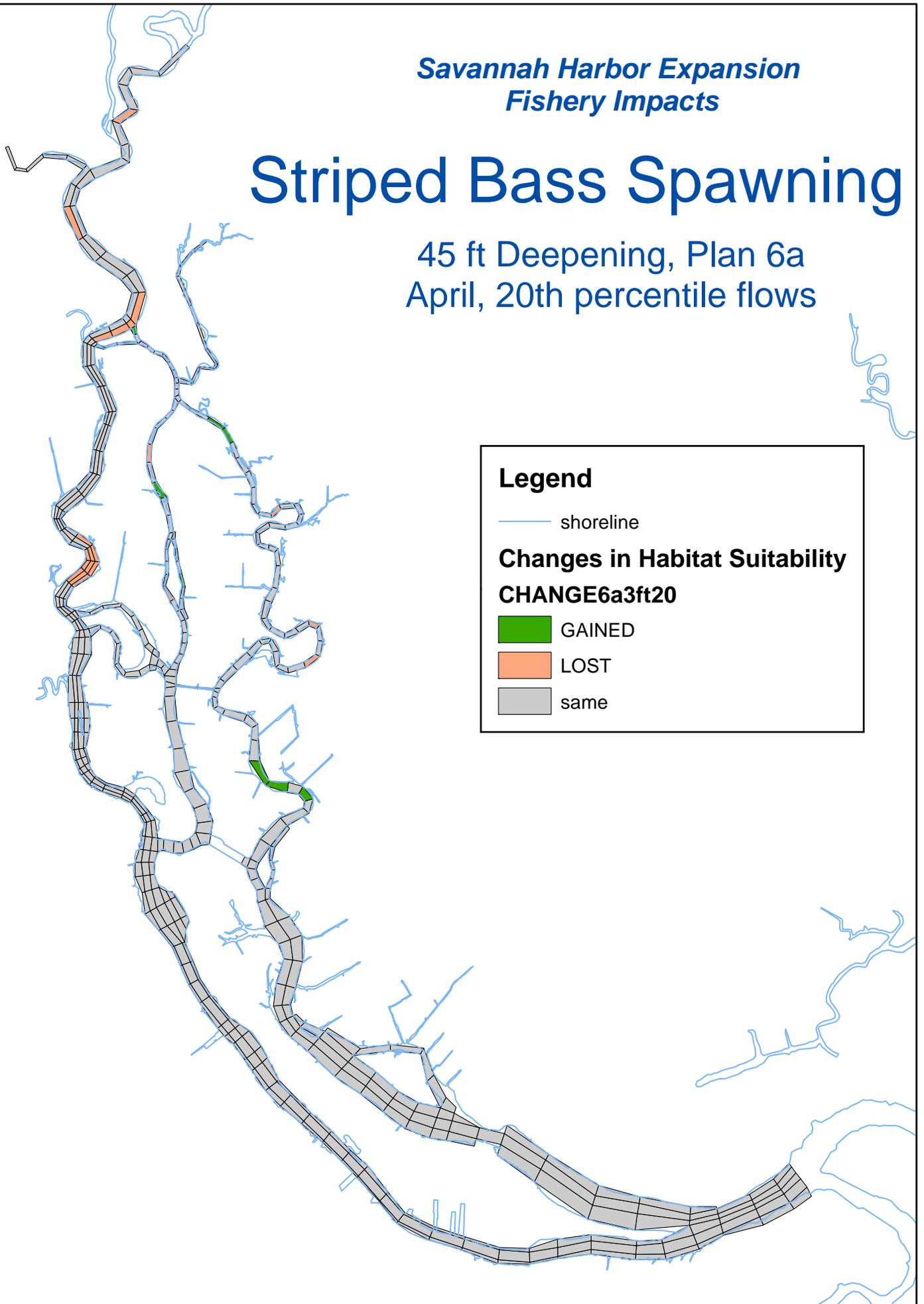
Changes in Habitat Suitability

CHANGE6a3ft20

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

45 ft Deepening, Plan 6a
April, 50th percentile flows

Legend

— shoreline

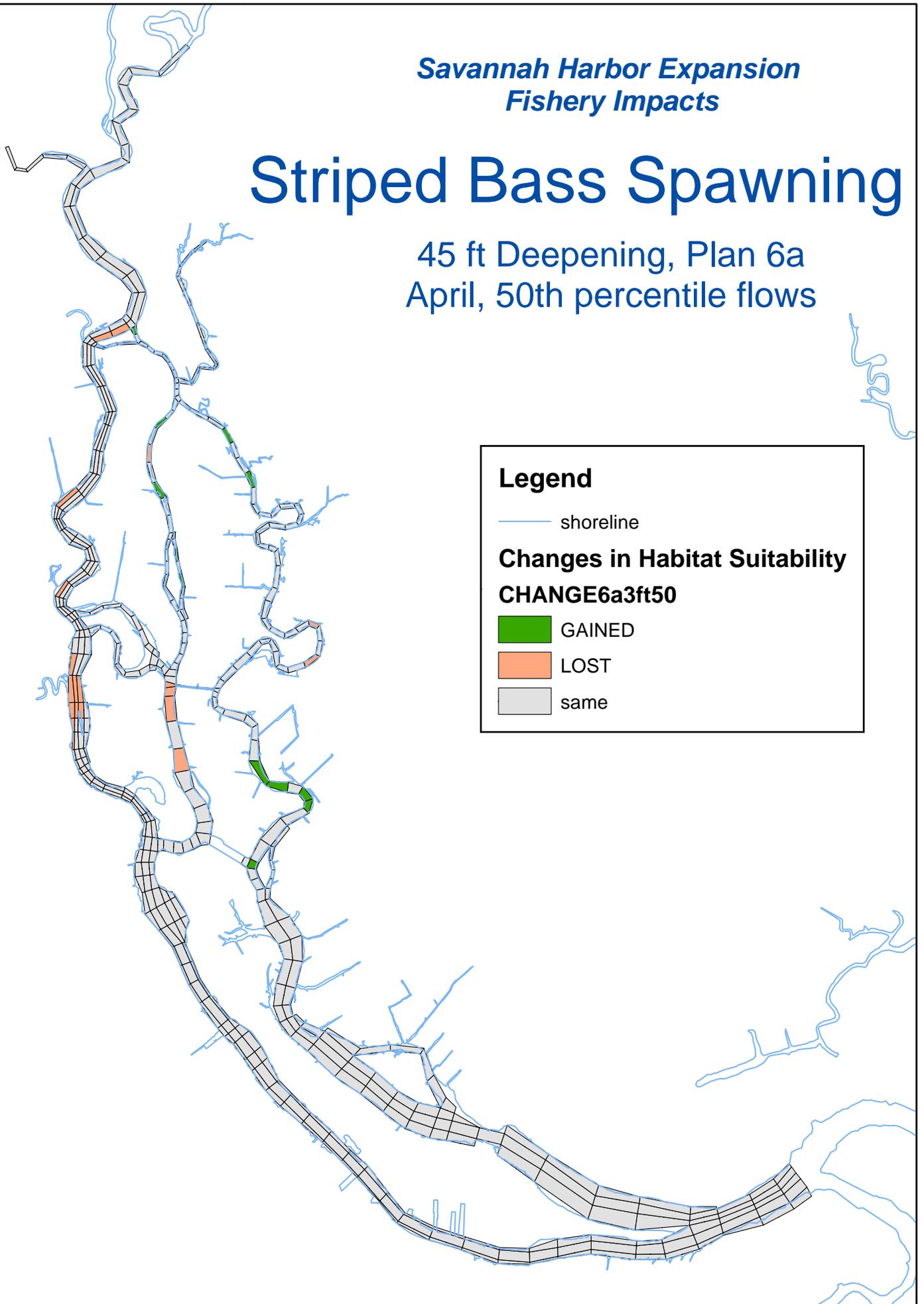
Changes in Habitat Suitability

CHANGE6a3ft50

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

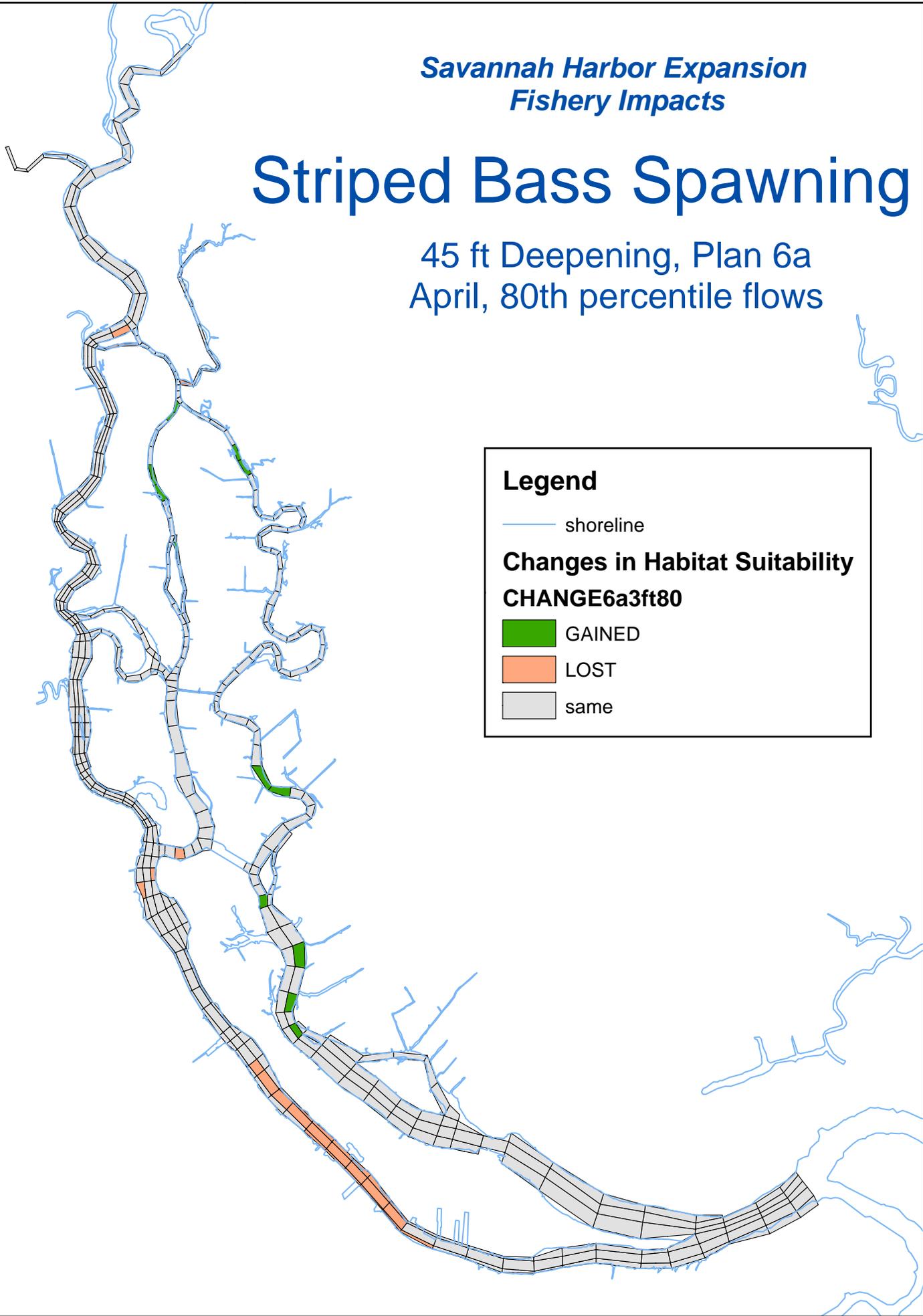
45 ft Deepening, Plan 6a
April, 80th percentile flows

Legend

— shoreline

Changes in Habitat Suitability
CHANGE6a3ft80

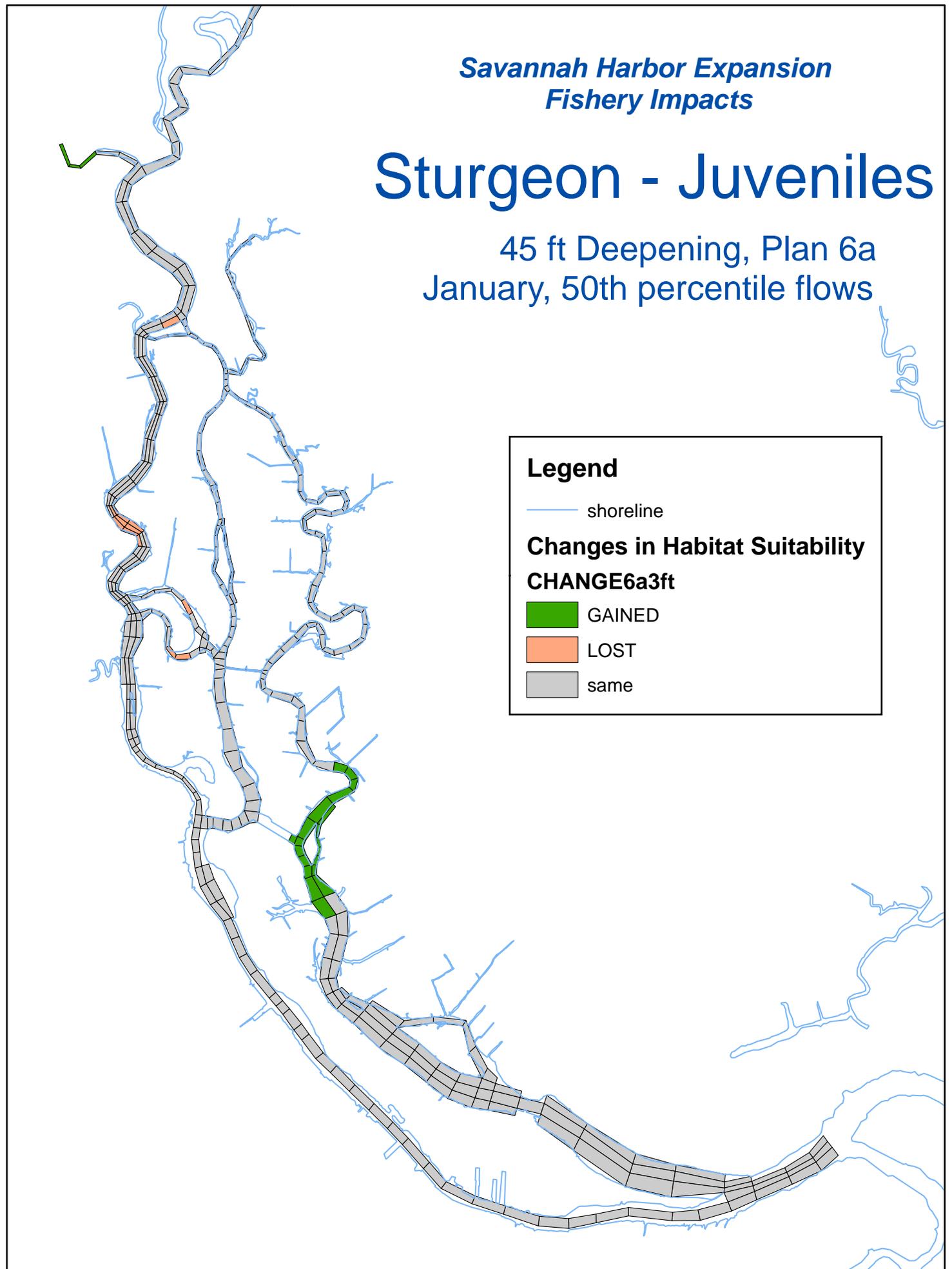
- GAINED
- LOST
- same



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Juveniles

45 ft Deepening, Plan 6a
January, 50th percentile flows



Legend

— shoreline

Changes in Habitat Suitability

CHANGE6a3ft

 GAINED

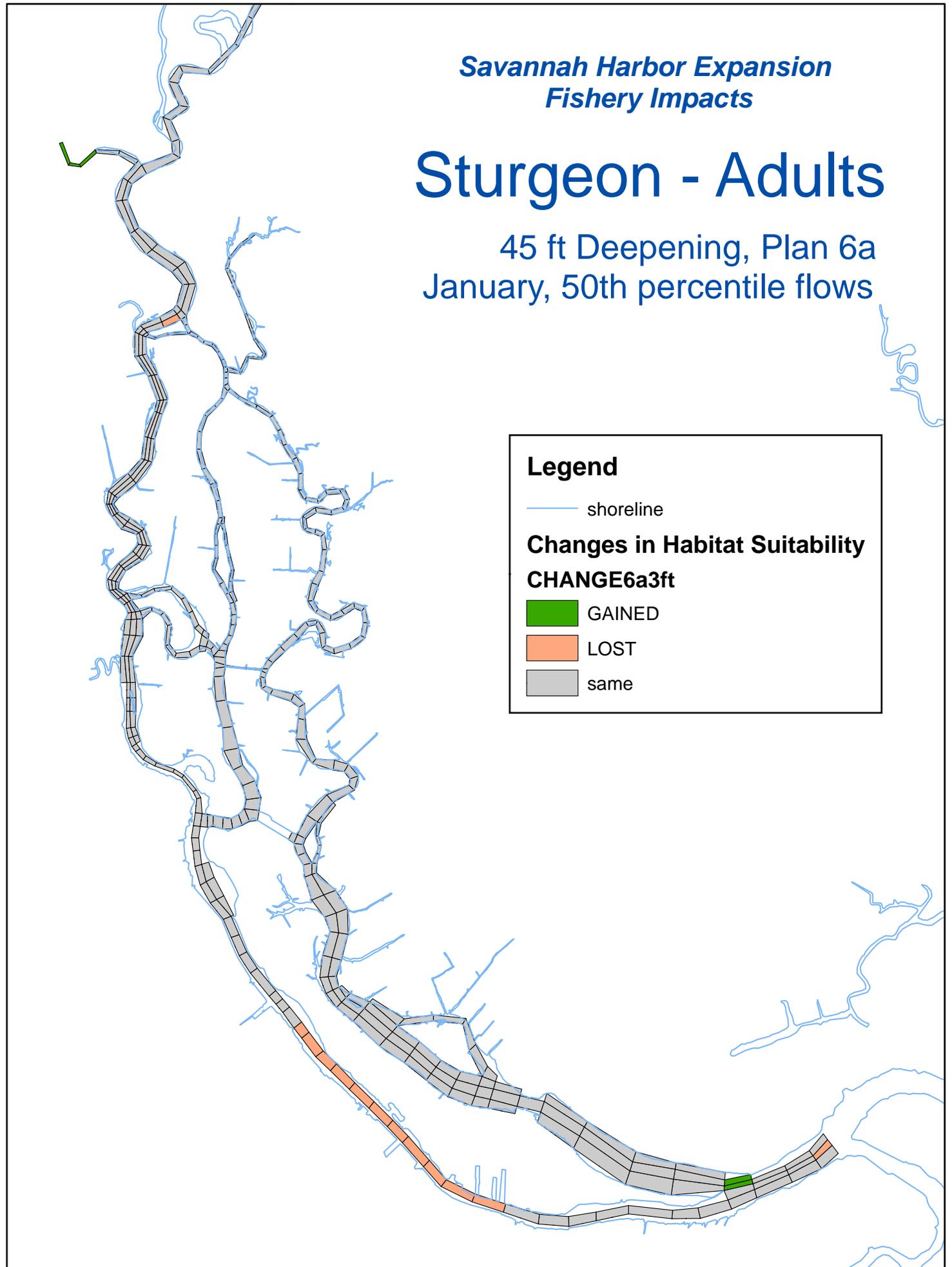
 LOST

 same

*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

45 ft Deepening, Plan 6a
January, 50th percentile flows



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

45 ft Deepening, Plan 6a
August, 1997 (Average) Flows

Legend

— shoreline

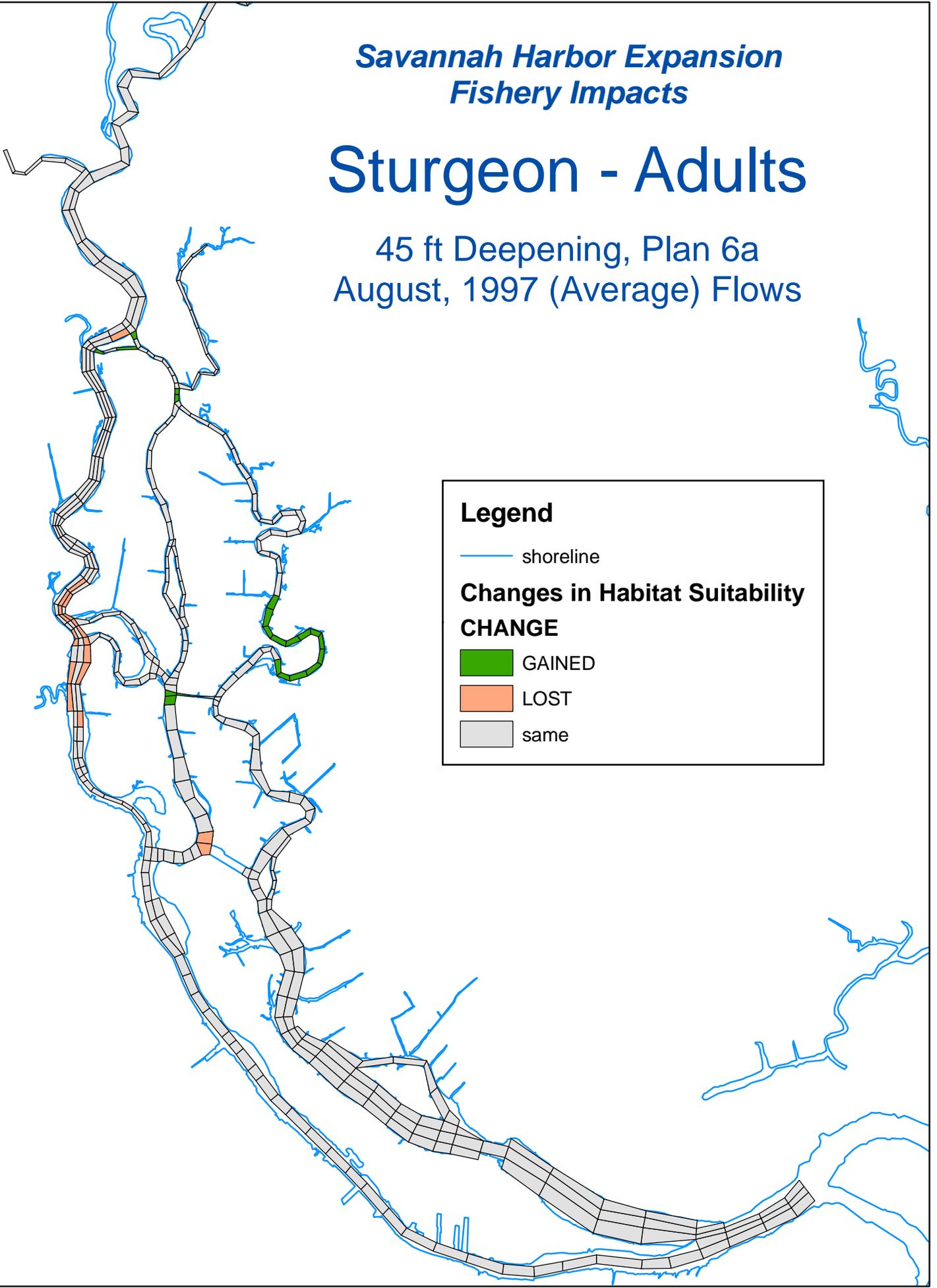
Changes in Habitat Suitability

CHANGE

■ GAINED

■ LOST

■ same



*Savannah Harbor Expansion
Fishery Impacts*

Southern Flounder

45 ft Deepening, Plan 6a
August, 1997 (Average) Flows

Legend

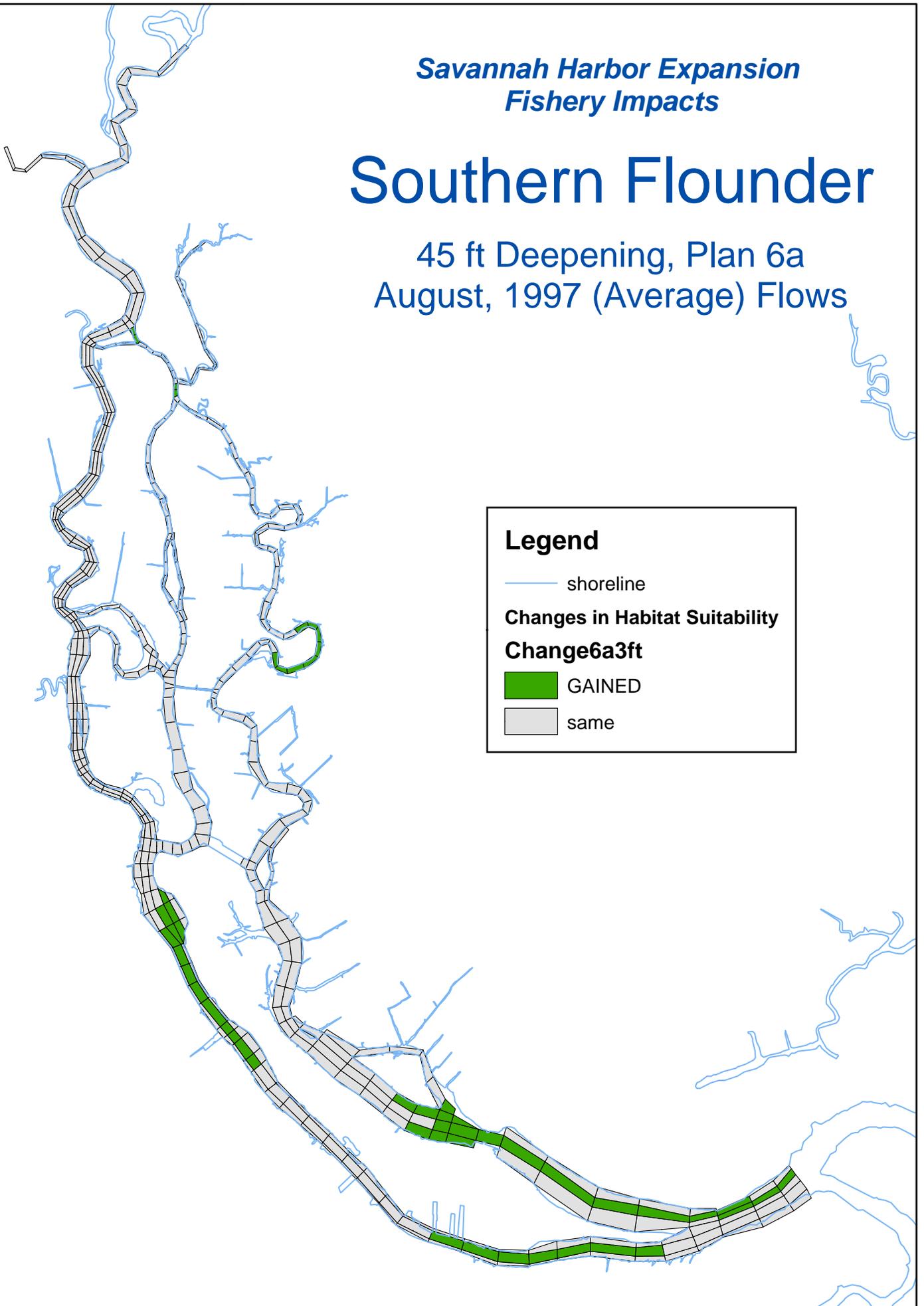
— shoreline

Changes in Habitat Suitability

Change6a3ft

 GAINED

 same



46 ft Channel Depth

Mitigation Plan 6a

*Savannah Harbor Expansion
Fishery Impacts*

American Shad

46 ft Deepening, Plan 6a
May 20th percentile flow

Legend

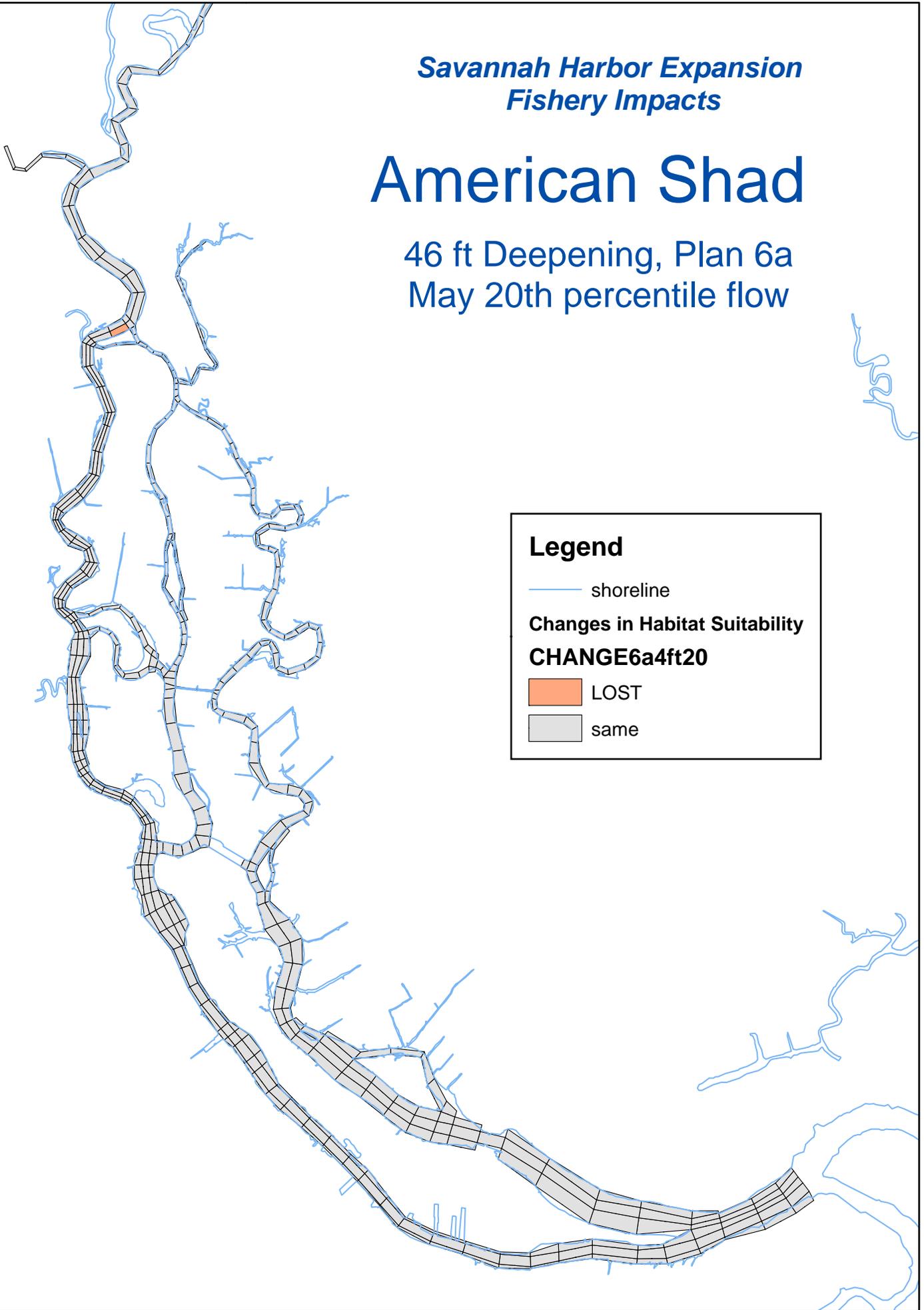
— shoreline

Changes in Habitat Suitability

CHANGE6a4ft20

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

46 ft Deepening, Plan 6a
May 50th percentile flow

Legend

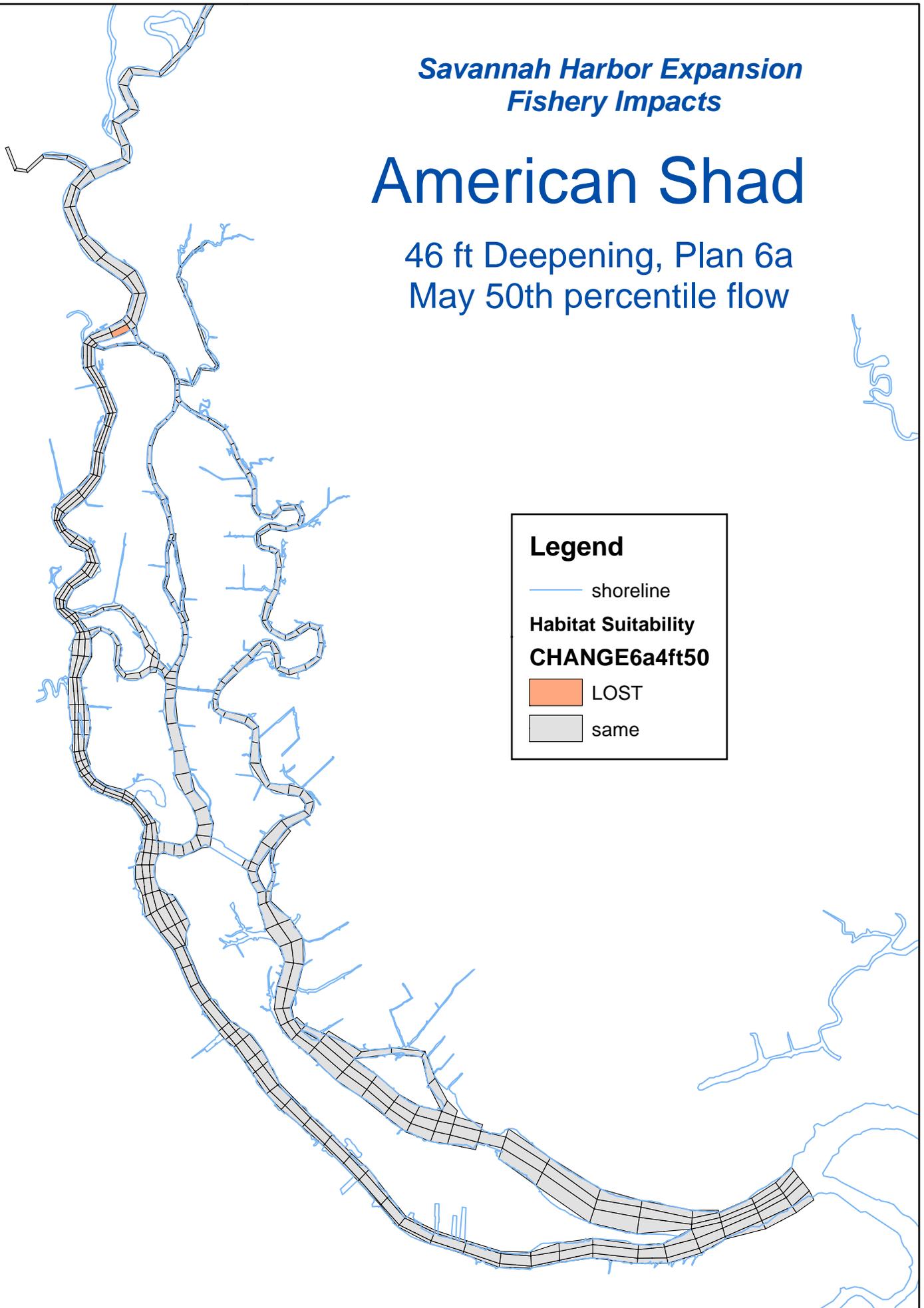
— shoreline

Habitat Suitability

CHANGE6a4ft50

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

46 ft Deepening, Plan 6a
May 80th percentile flow

Legend

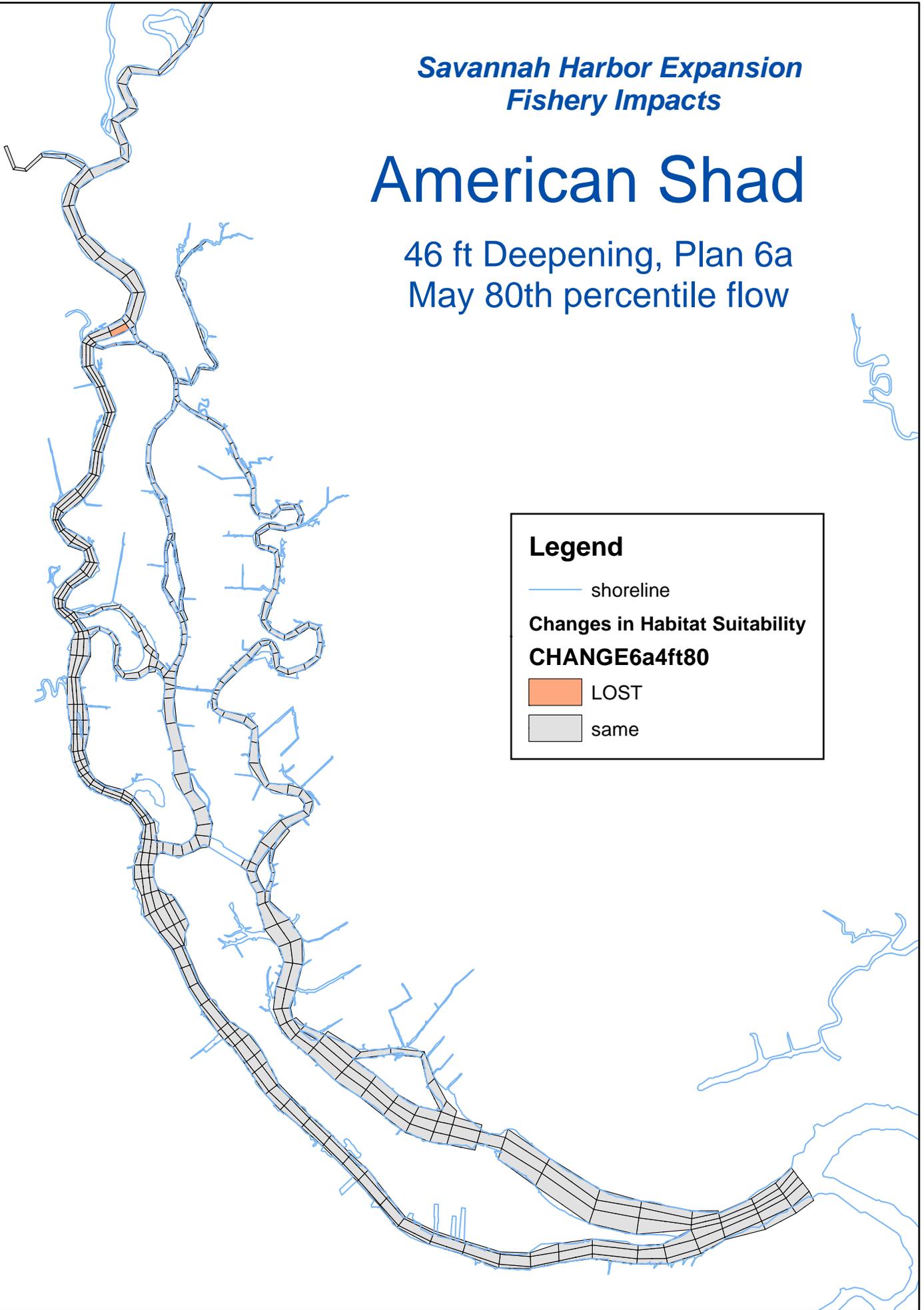
— shoreline

Changes in Habitat Suitability

CHANGE6a4ft80

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

46 ft Deepening, Plan 6a
January 50th percentile flow

Legend

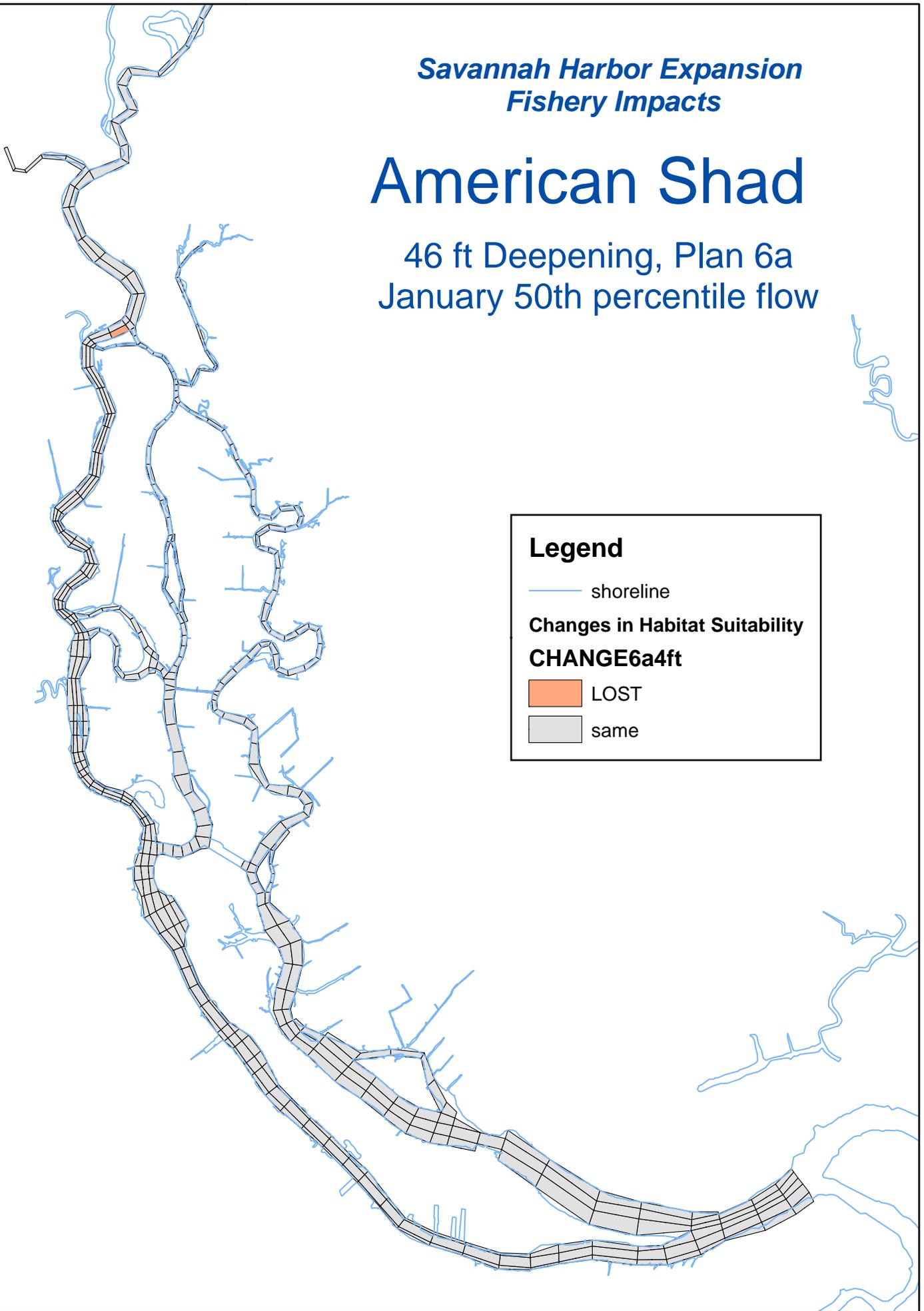
— shoreline

Changes in Habitat Suitability

CHANGE6a4ft

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

46 ft Deepening, Plan 6a
August, 1997 (Average) Flows

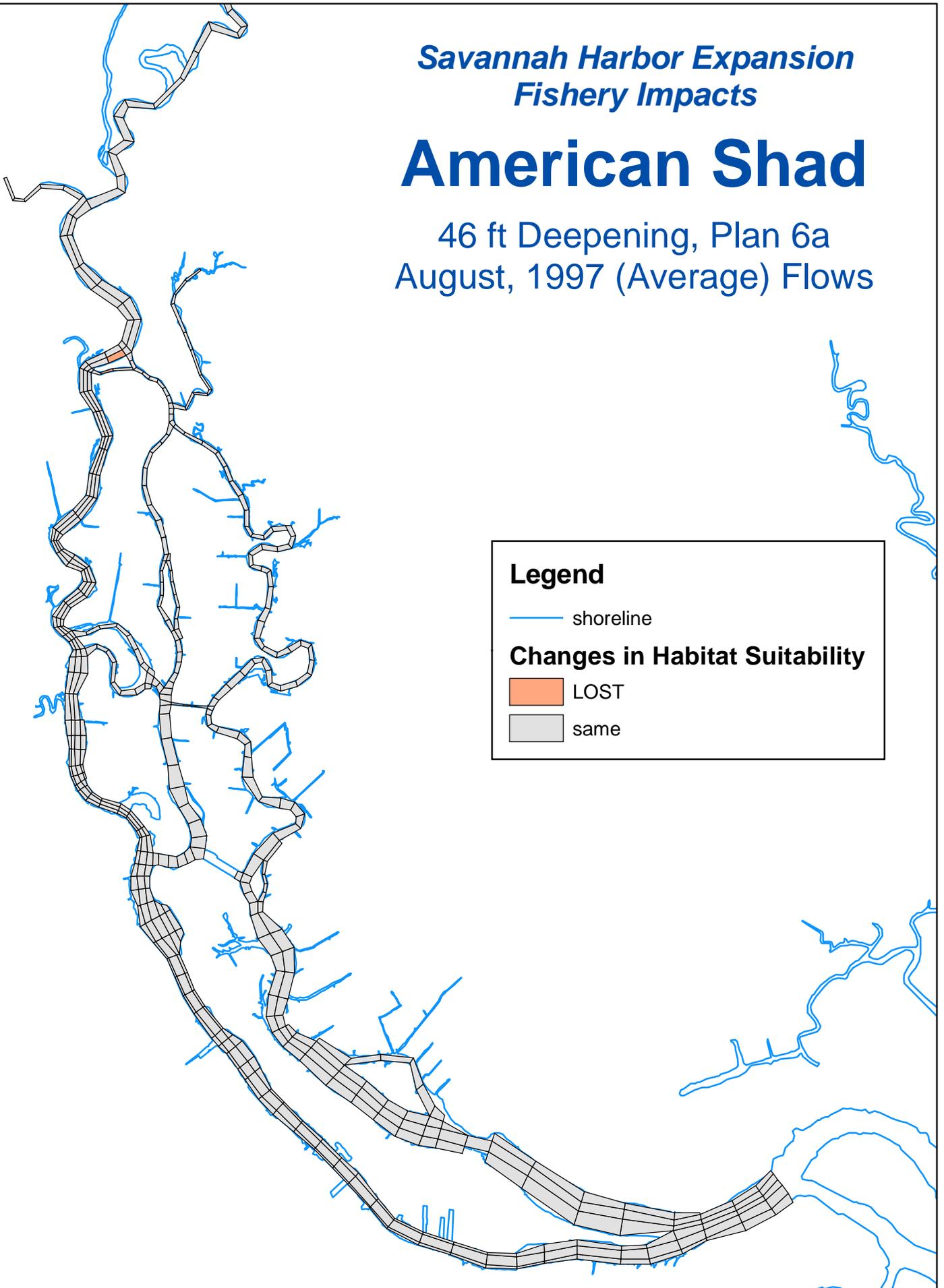
Legend

— shoreline

Changes in Habitat Suitability

■ LOST

■ same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

46 ft Deepening, Plan 6a
April, 20th percentile flows

Legend

— shoreline

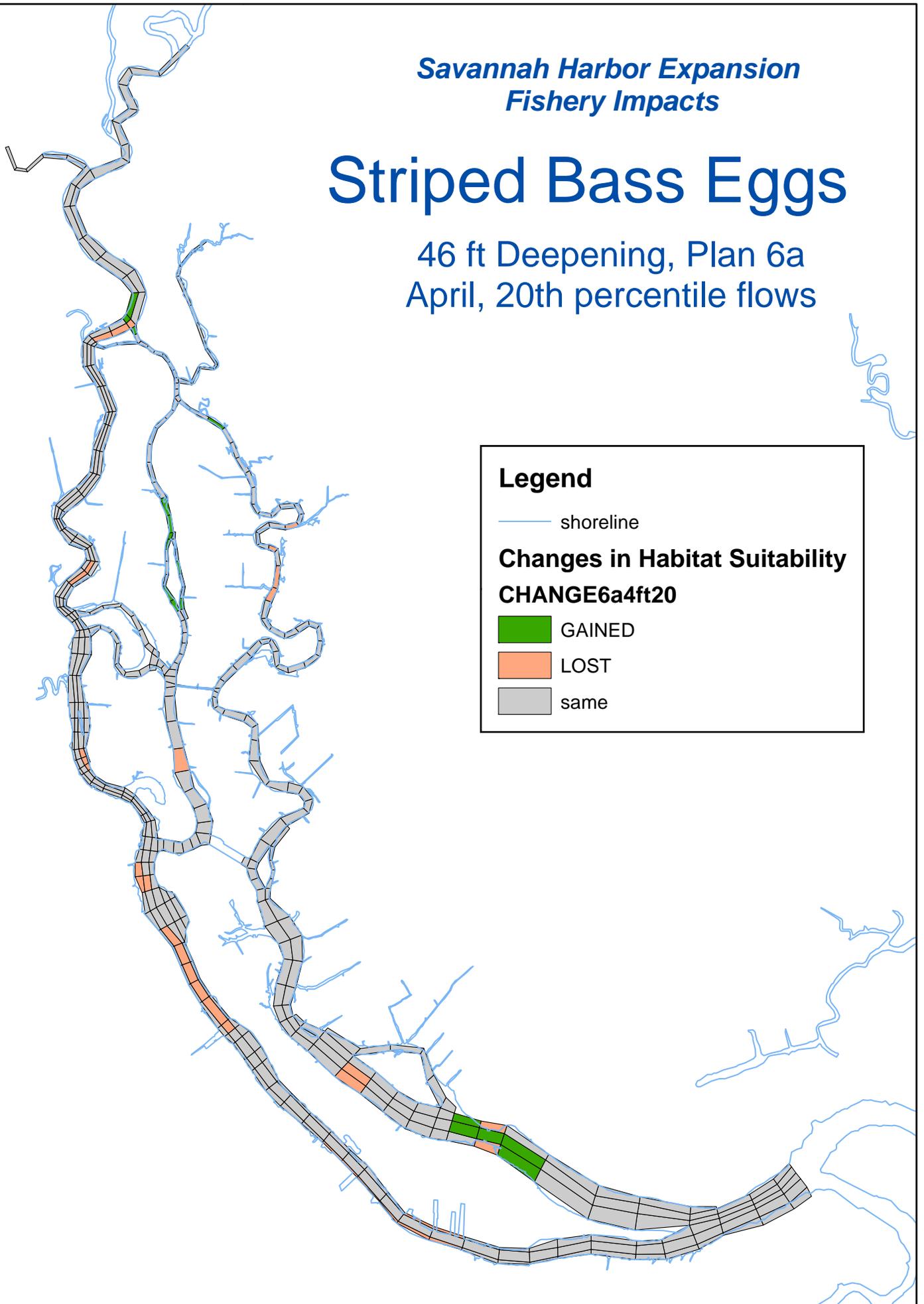
Changes in Habitat Suitability

CHANGE6a4ft20

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

46 ft Deepening, Plan 6a
April, 50th percentile flows

Legend

— shoreline

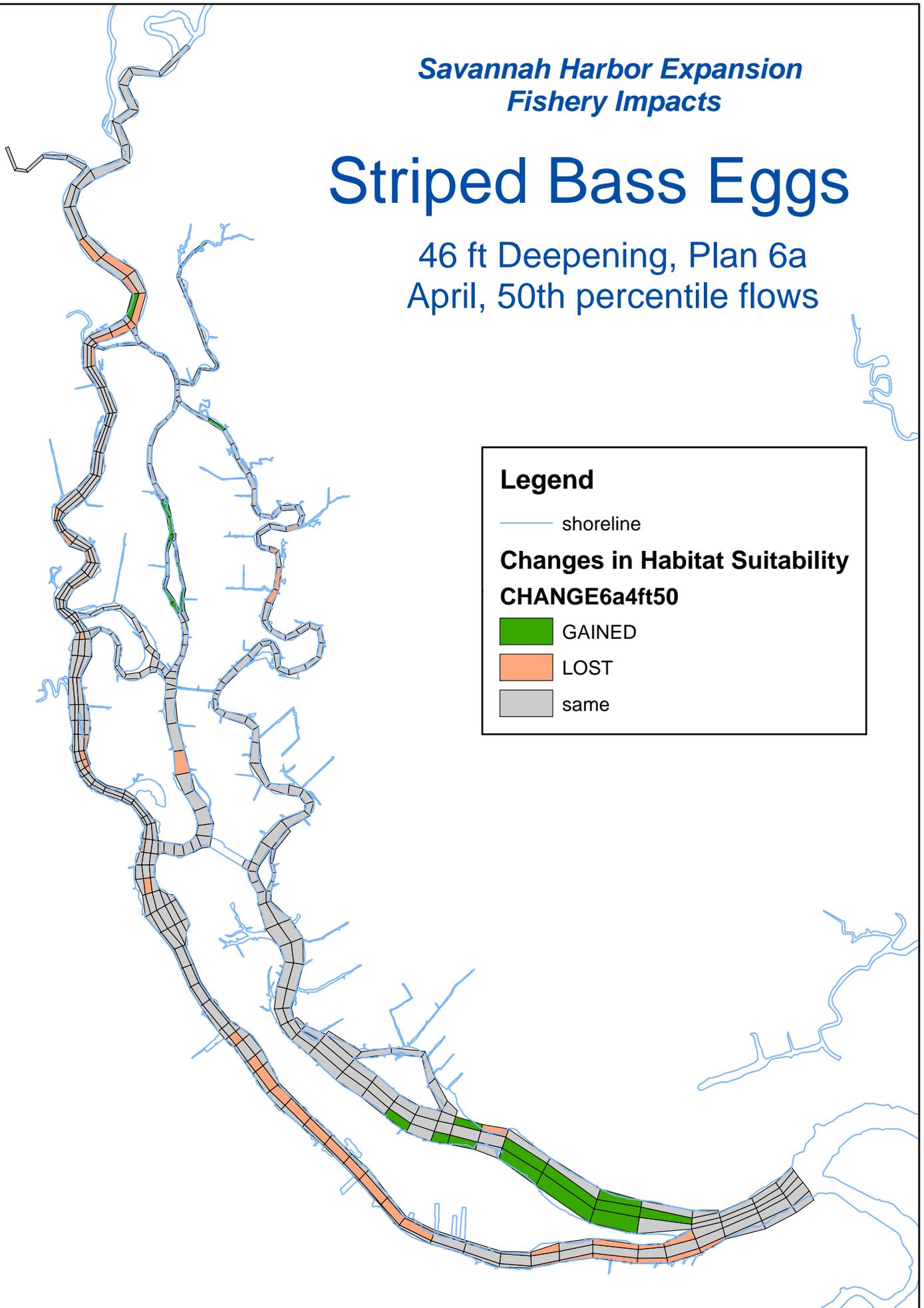
Changes in Habitat Suitability

CHANGE6a4ft50

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

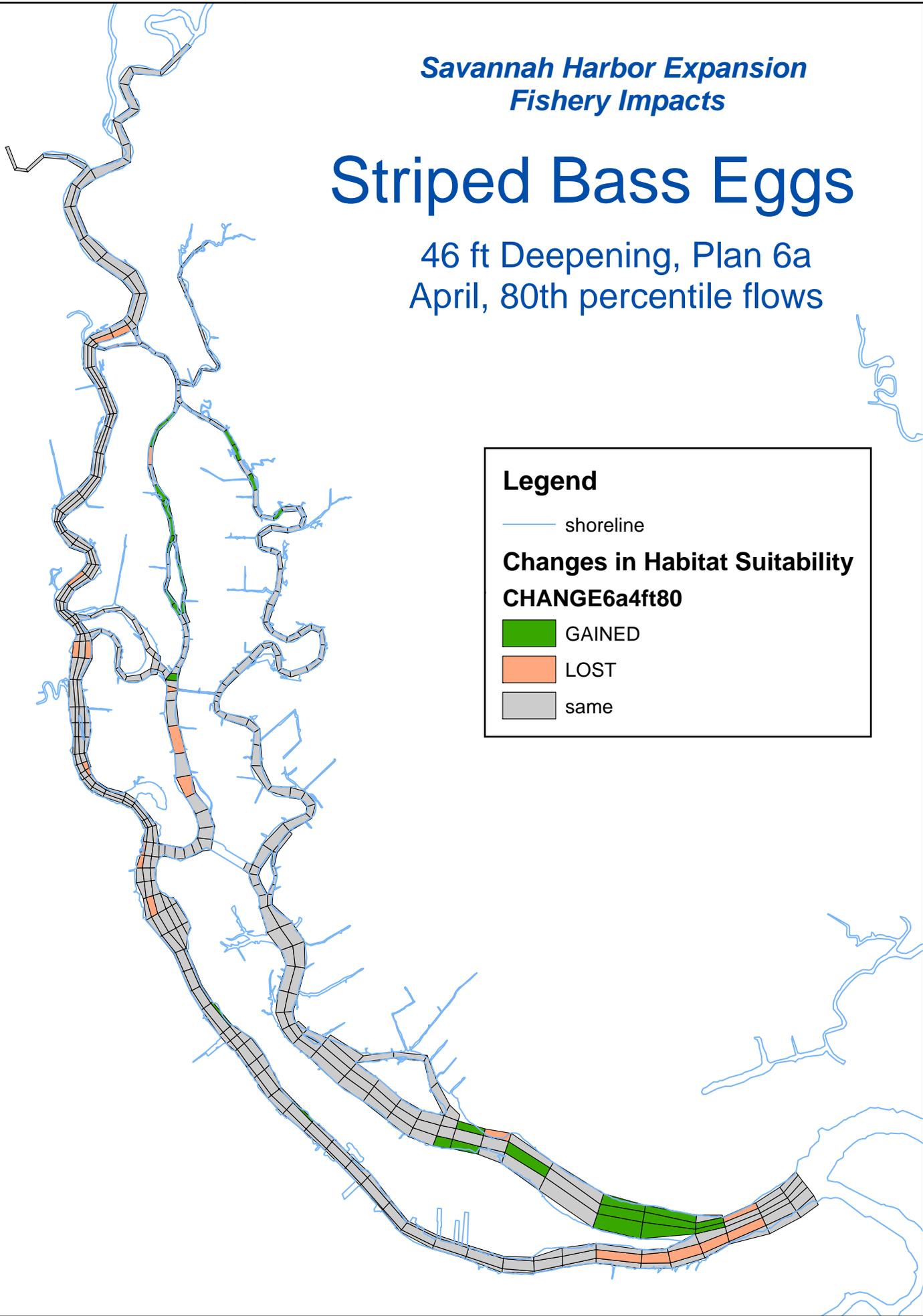
46 ft Deepening, Plan 6a
April, 80th percentile flows

Legend

— shoreline

Changes in Habitat Suitability
CHANGE6a4ft80

- GAINED
- LOST
- same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

46 ft Deepening, Plan 6a
May, 20th percentile flows

Legend

— shoreline

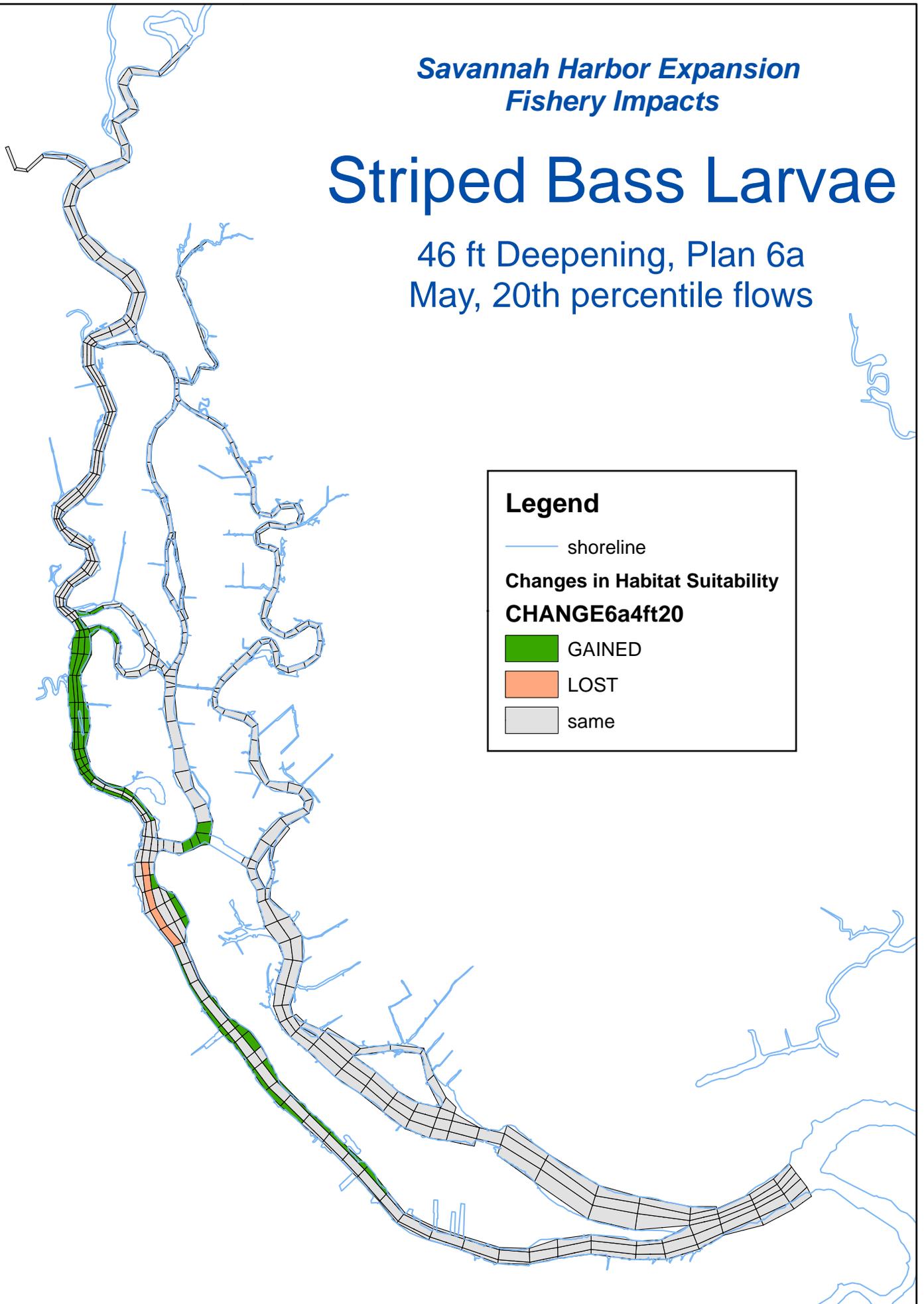
Changes in Habitat Suitability

CHANGE6a4ft20

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

46 ft Deepening, Plan 6a
May, 50th percentile flows

Legend

— shoreline

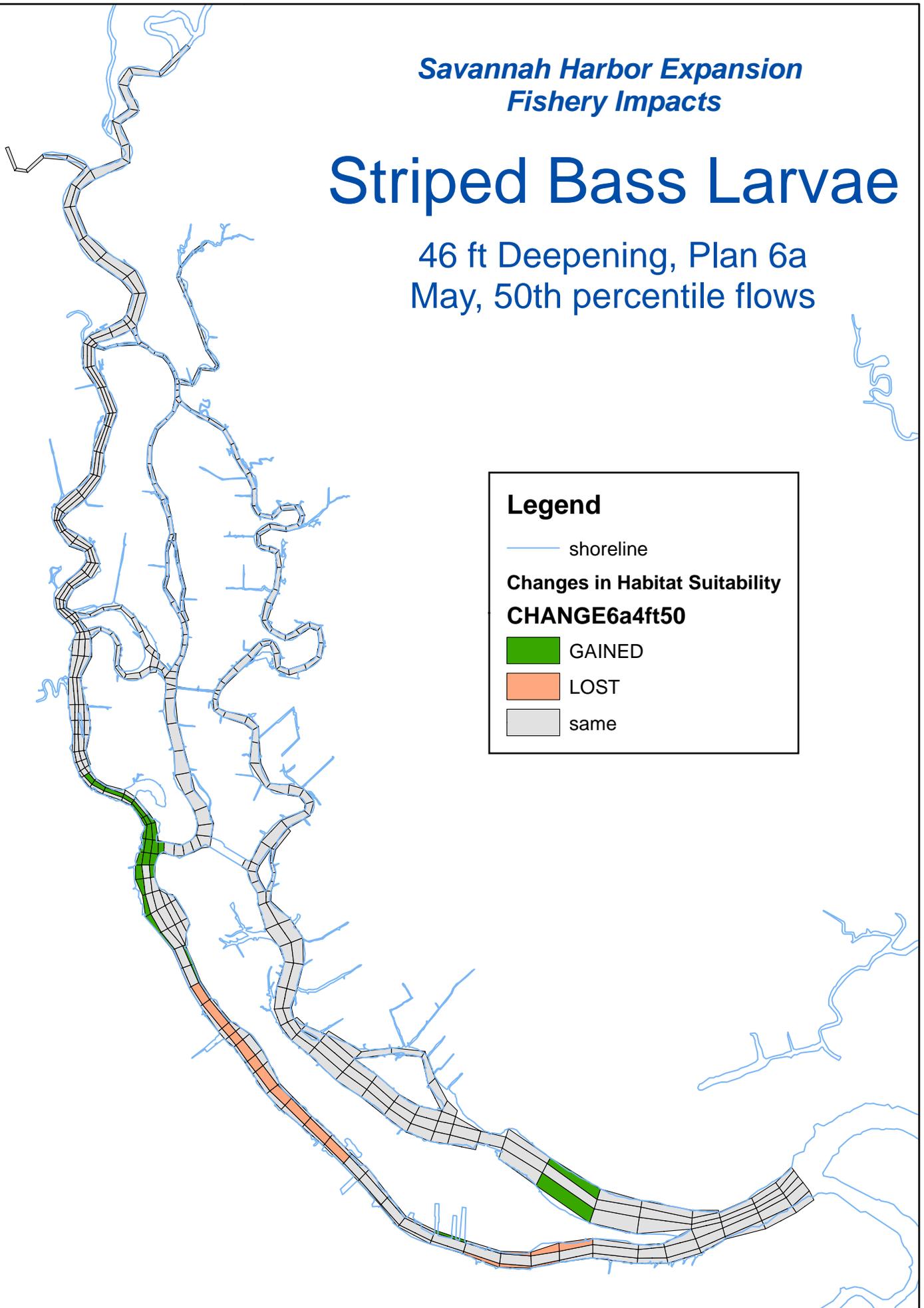
Changes in Habitat Suitability

CHANGE6a4ft50

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

46 ft Deepening, Plan 6a
May, 80th percentile flows

Legend

— shoreline

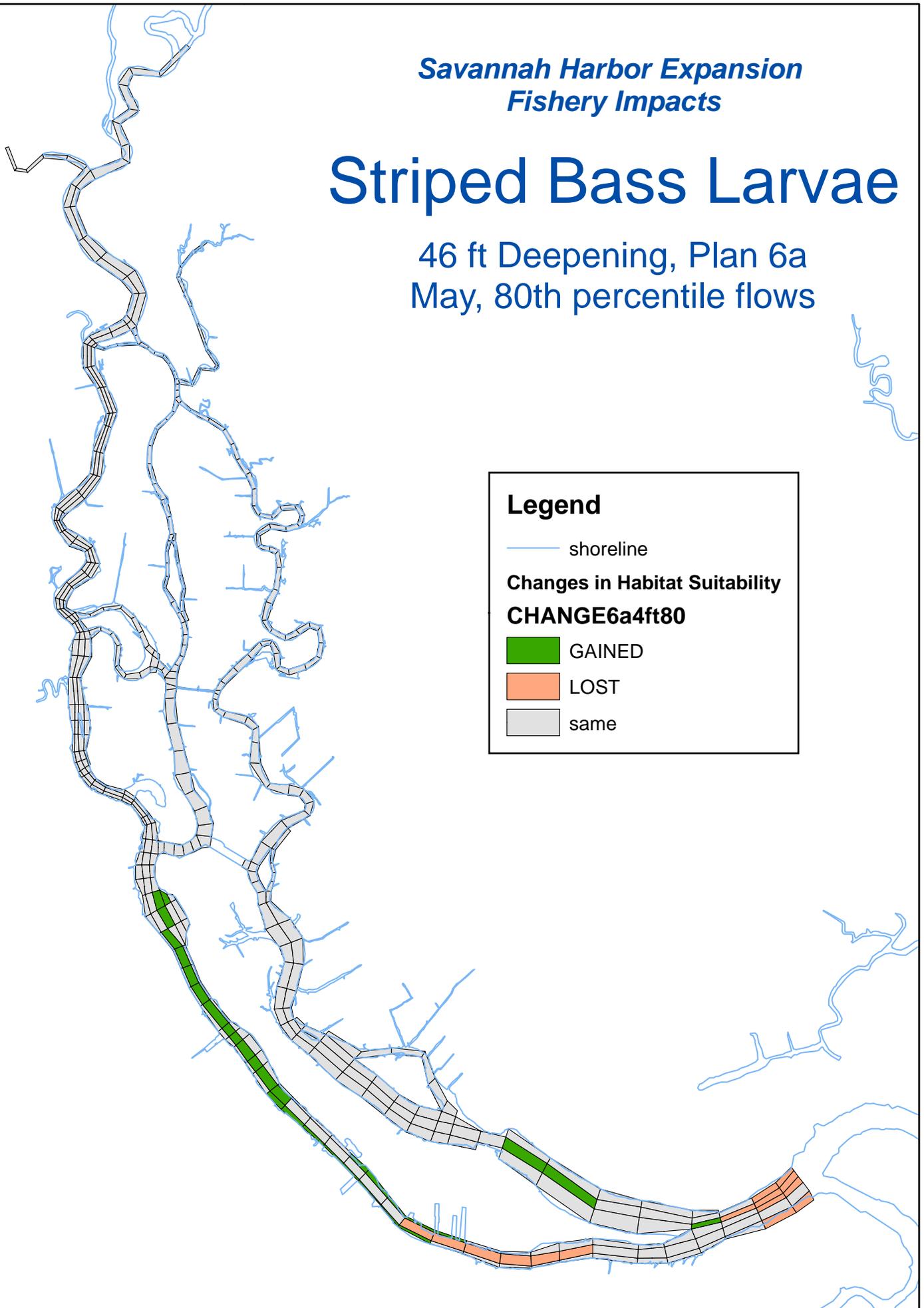
Changes in Habitat Suitability

CHANGE6a4ft80

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

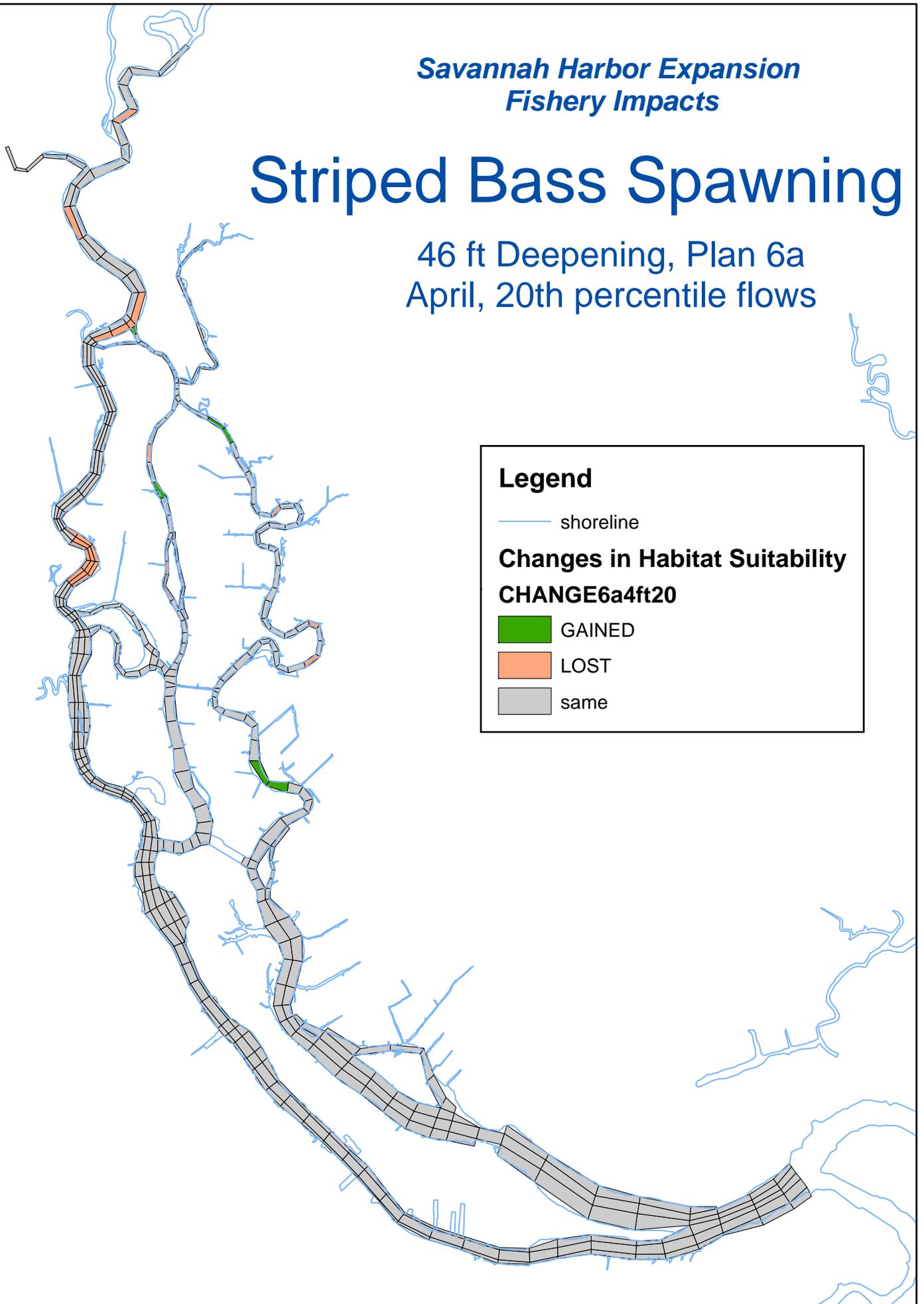
46 ft Deepening, Plan 6a
April, 20th percentile flows

Legend

— shoreline

Changes in Habitat Suitability
CHANGE6a4ft20

	GAINED
	LOST
	same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

46 ft Deepening, Plan 6a
April, 50th percentile flows

Legend

— shoreline

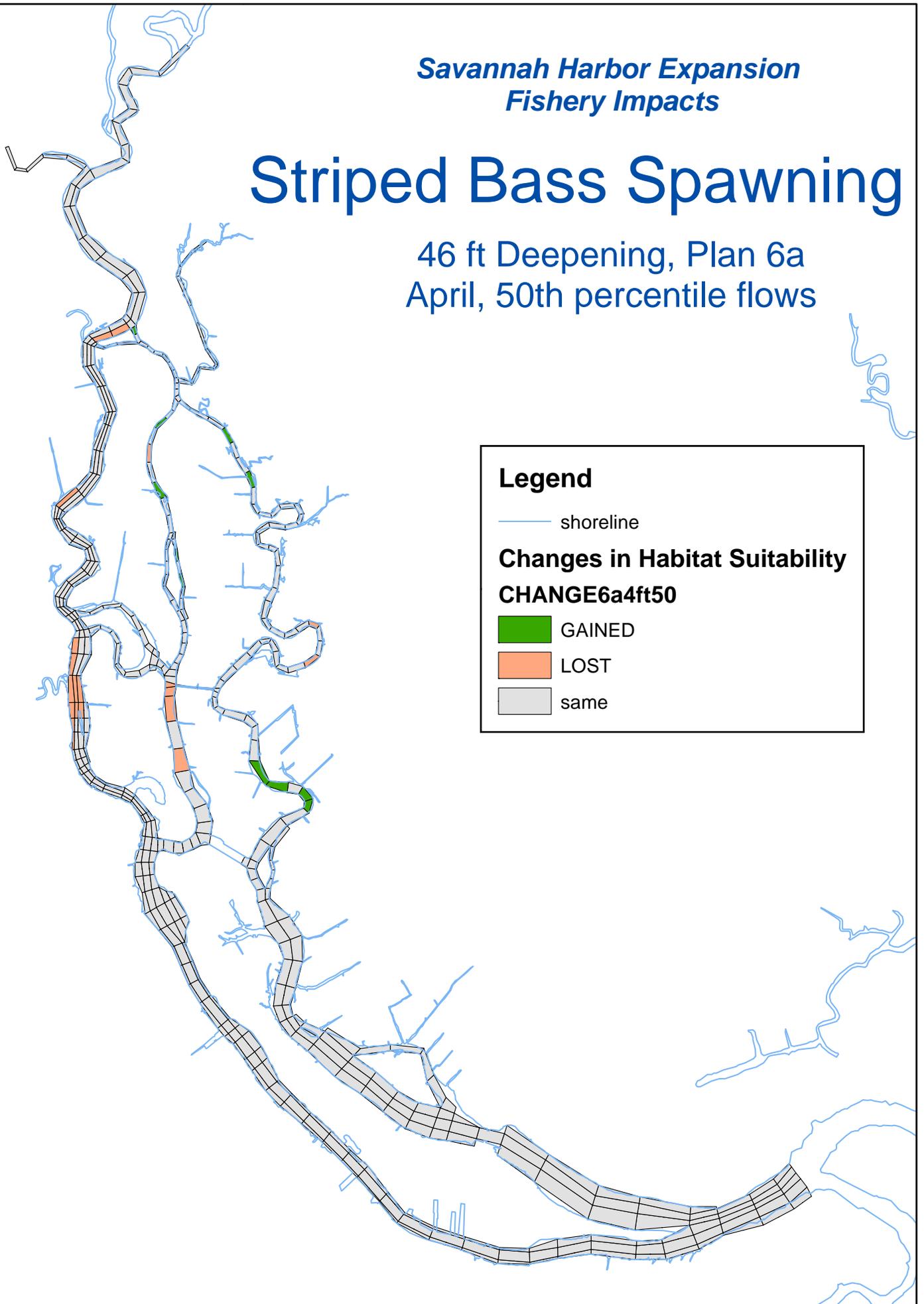
Changes in Habitat Suitability

CHANGE6a4ft50

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

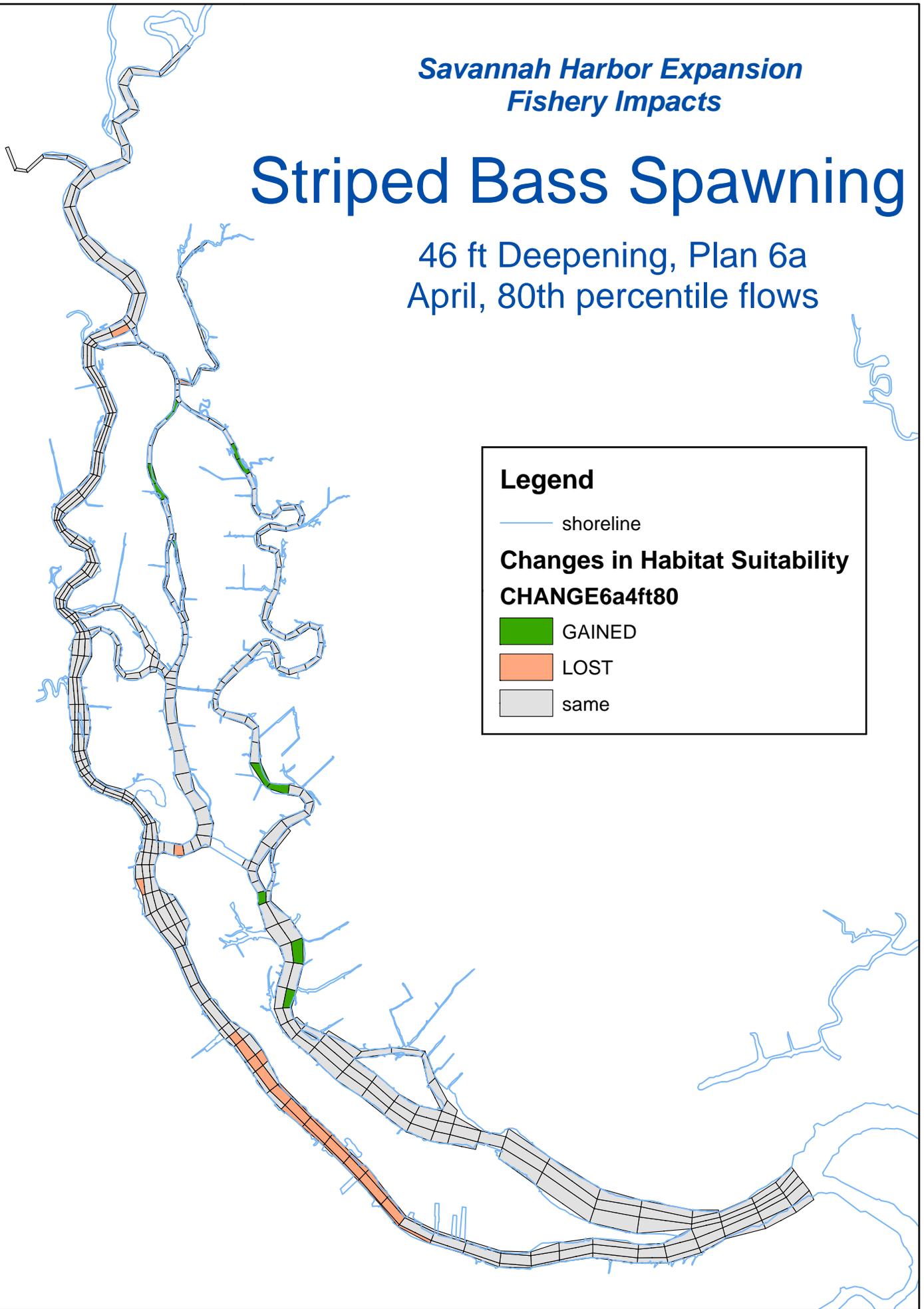
46 ft Deepening, Plan 6a
April, 80th percentile flows

Legend

— shoreline

Changes in Habitat Suitability
CHANGE6a4ft80

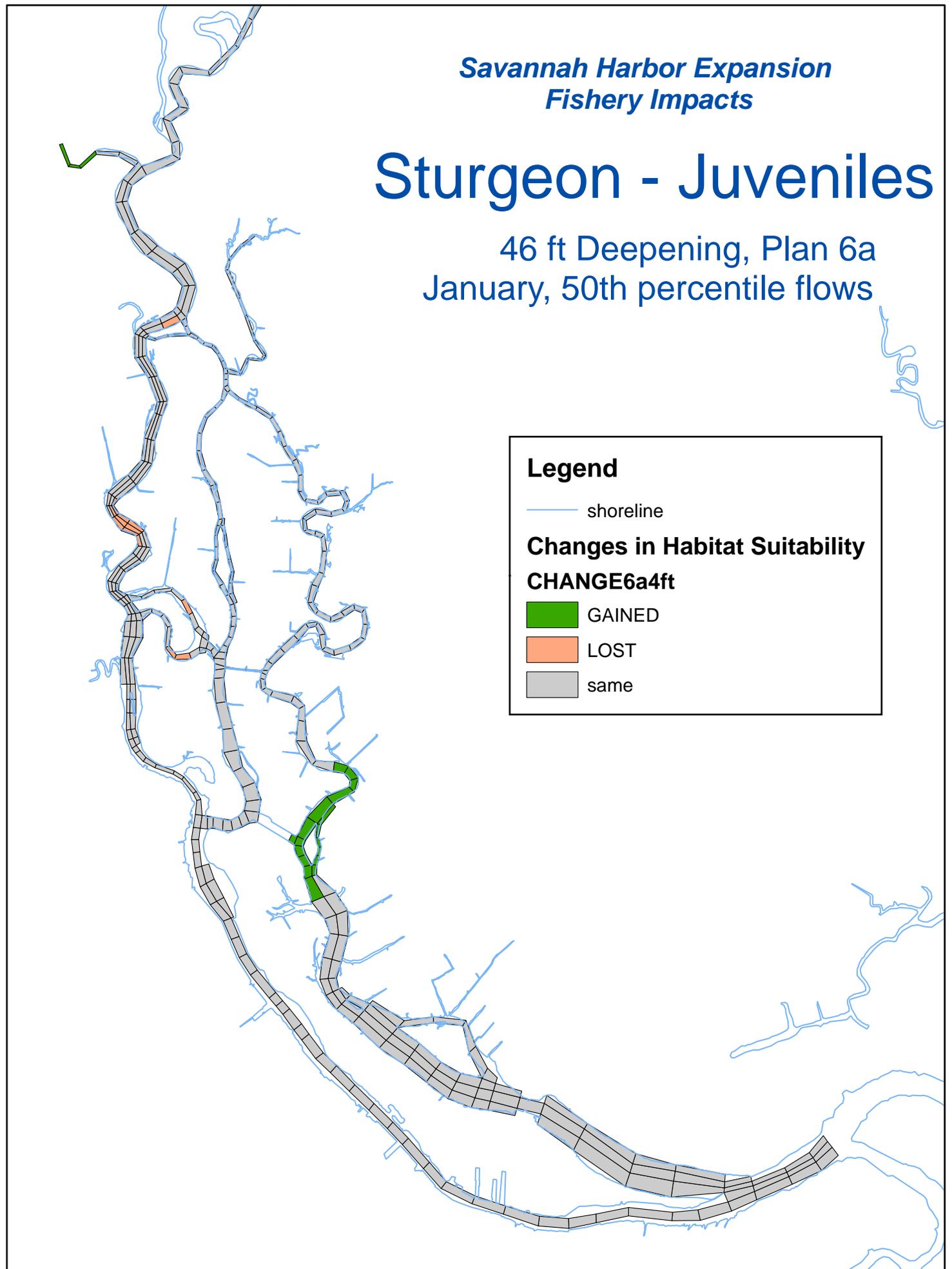
- GAINED
- LOST
- same



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Juveniles

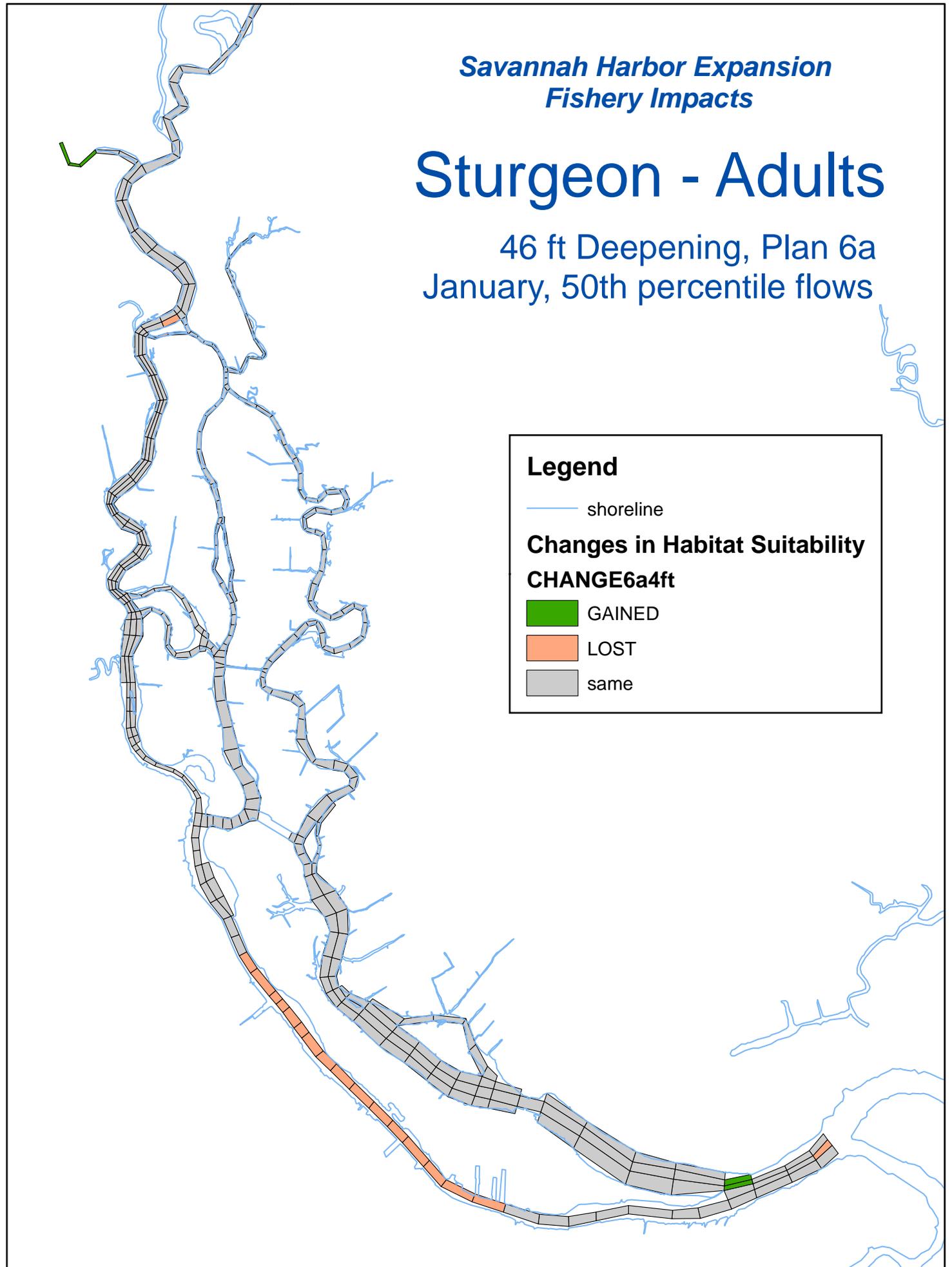
46 ft Deepening, Plan 6a
January, 50th percentile flows



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

46 ft Deepening, Plan 6a
January, 50th percentile flows



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

46 ft Deepening, Plan 6a
August, 1997 (Average) Flows

Legend

— shoreline

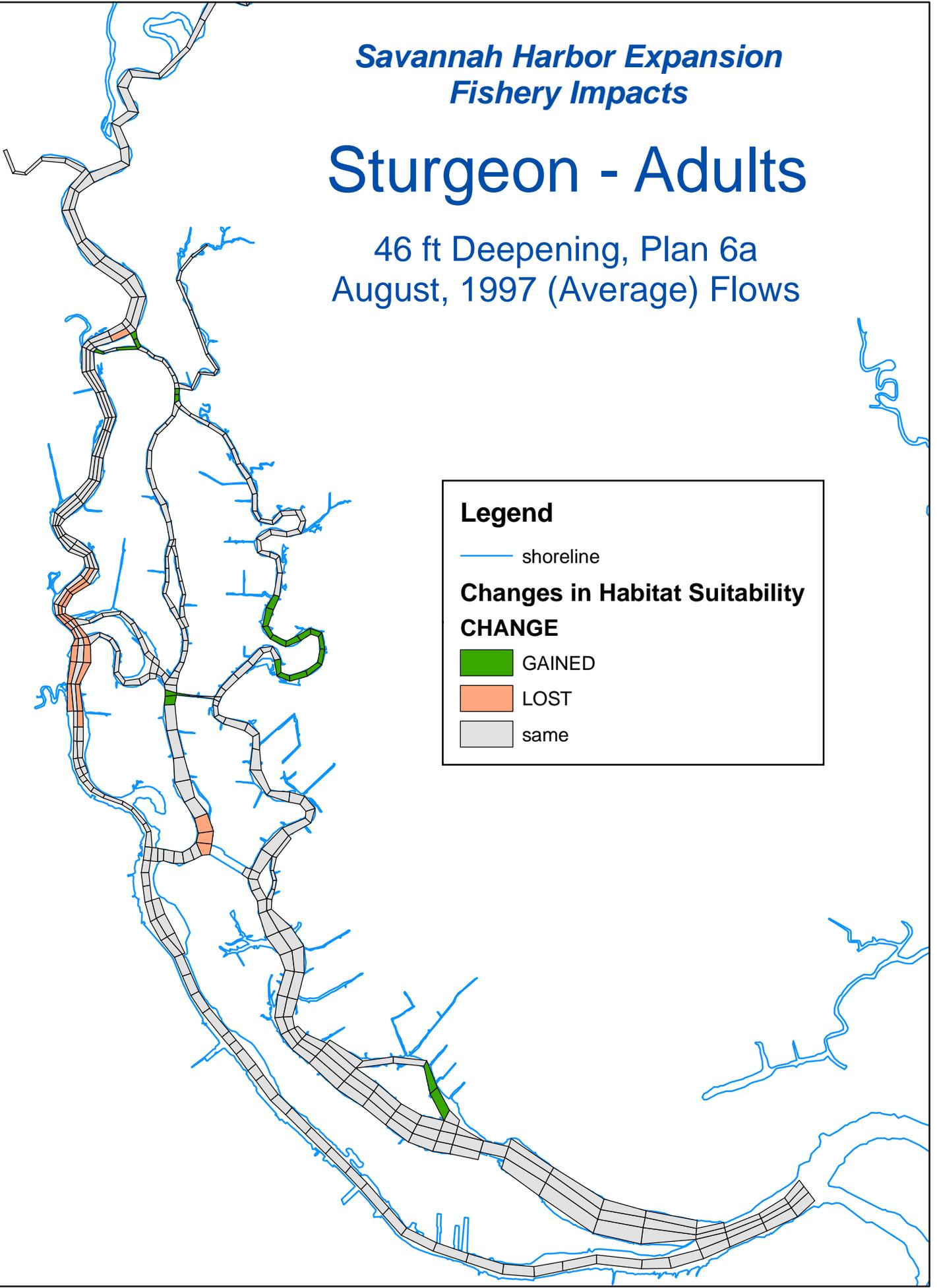
Changes in Habitat Suitability

CHANGE

■ GAINED

■ LOST

■ same



*Savannah Harbor Expansion
Fishery Impacts*

Southern Flounder

46 ft Deepening, Plan 6a
August, 1997 (Average) Flows

Legend

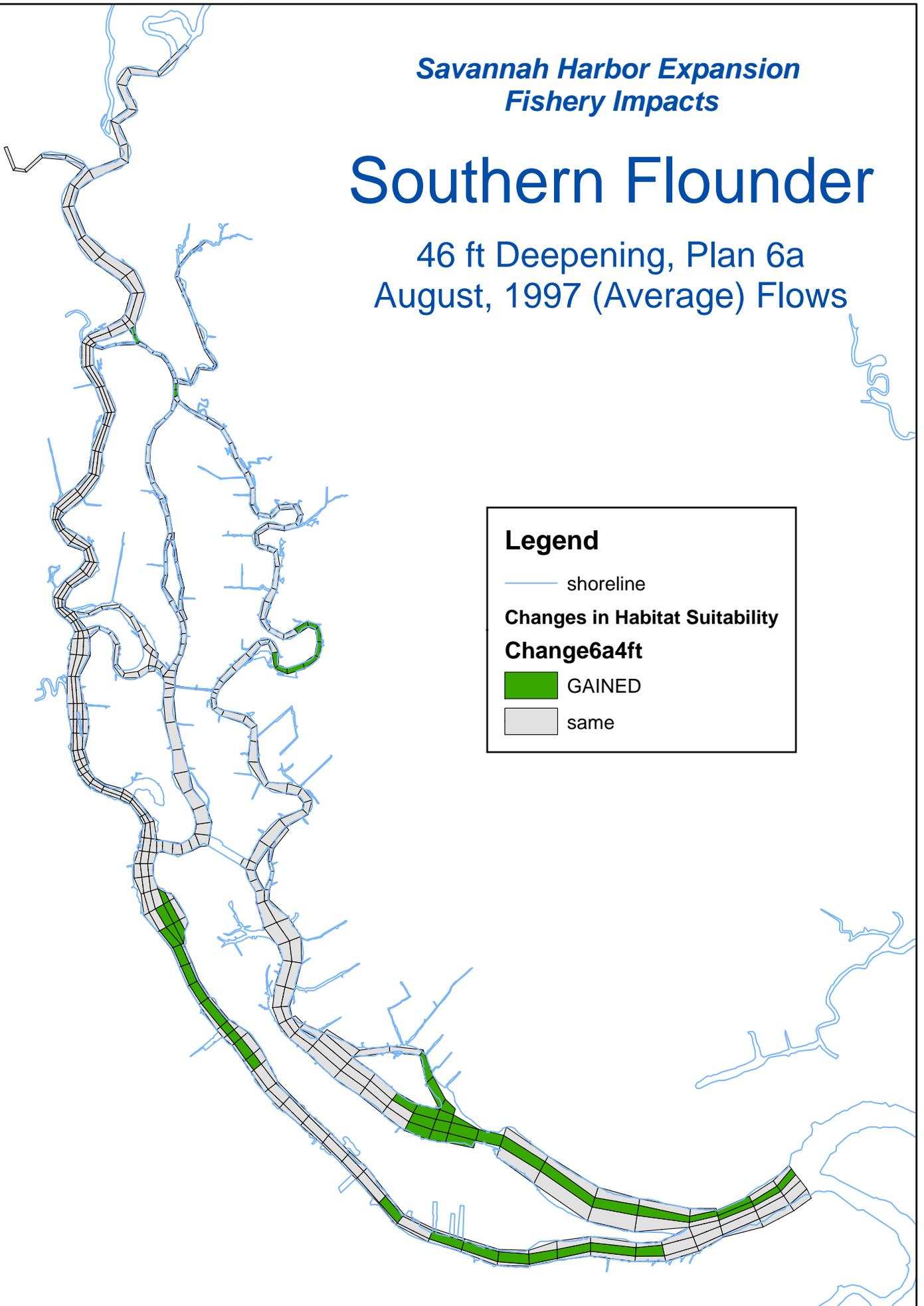
— shoreline

Changes in Habitat Suitability

Change6a4ft

 GAINED

 same



47 ft Channel Depth

Mitigation Plan 6a

*Savannah Harbor Expansion
Fishery Impacts*

American Shad

47 ft Deepening, Plan 6a
May 20th percentile flow

Legend

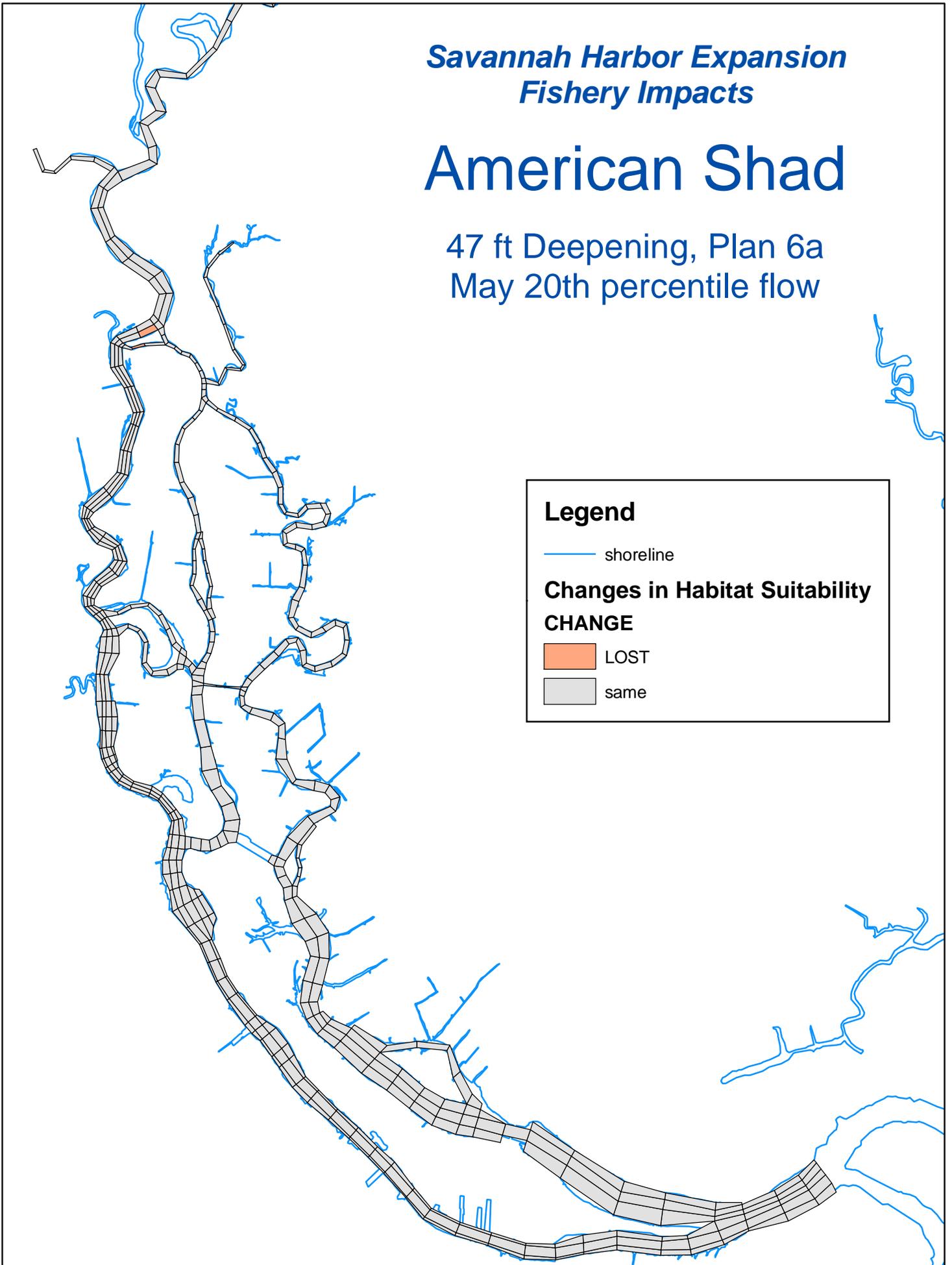
— shoreline

Changes in Habitat Suitability

CHANGE

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

47 ft Deepening, Plan 6a
May 50th percentile flow

Legend

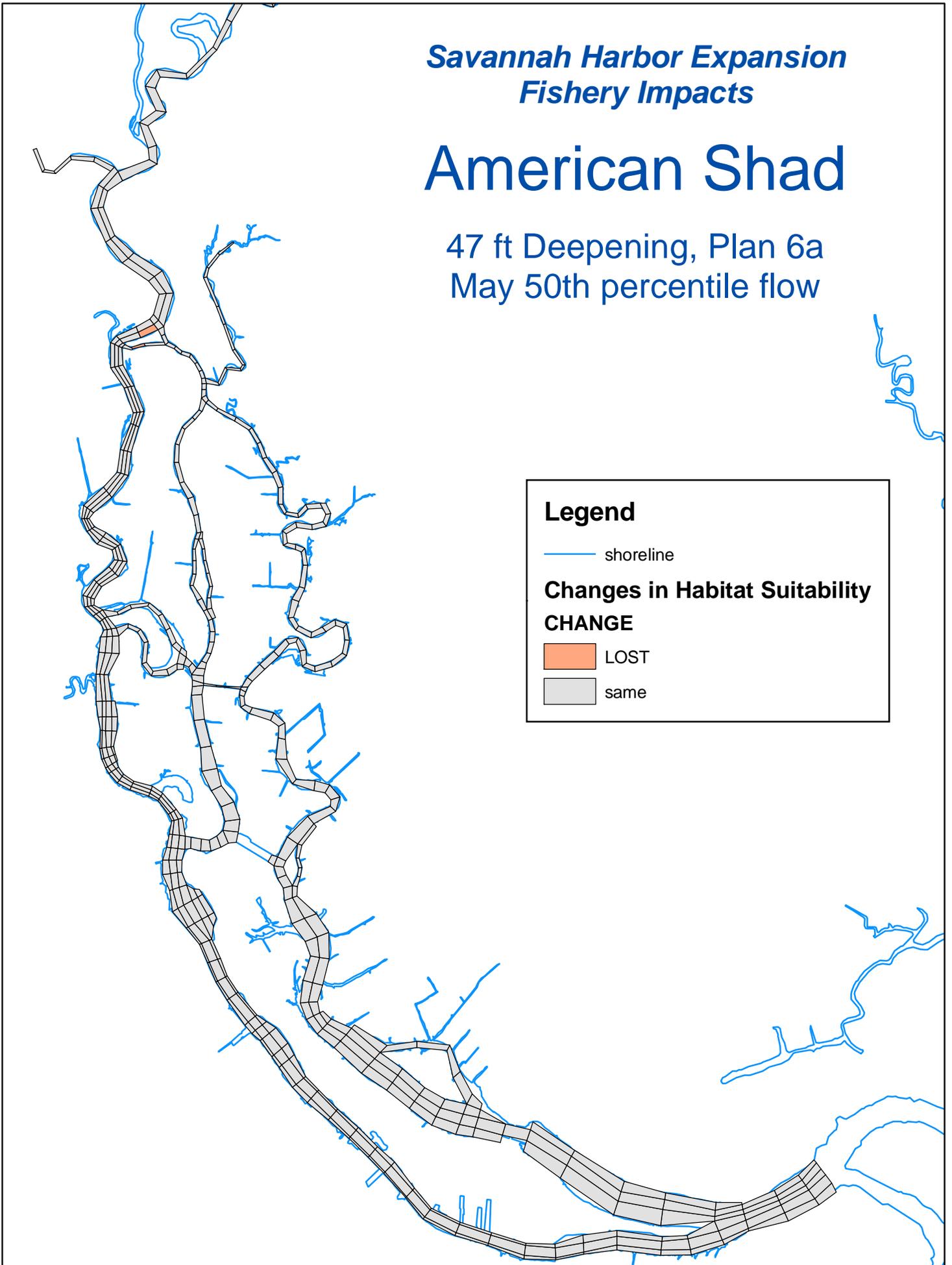
— shoreline

Changes in Habitat Suitability

CHANGE

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

47 ft Deepening, Plan 6a
May 80th percentile flow

Legend

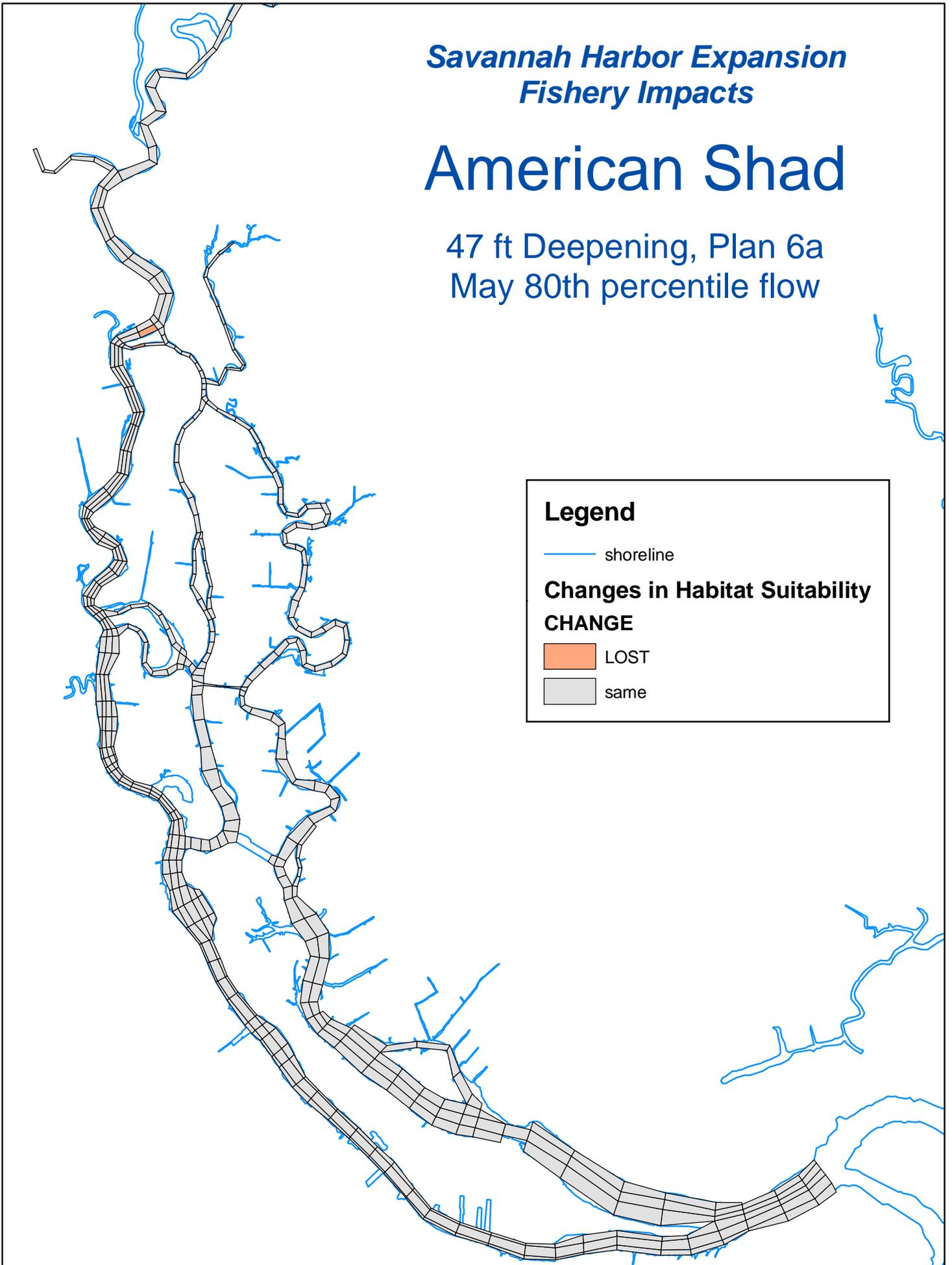
— shoreline

Changes in Habitat Suitability

CHANGE

LOST

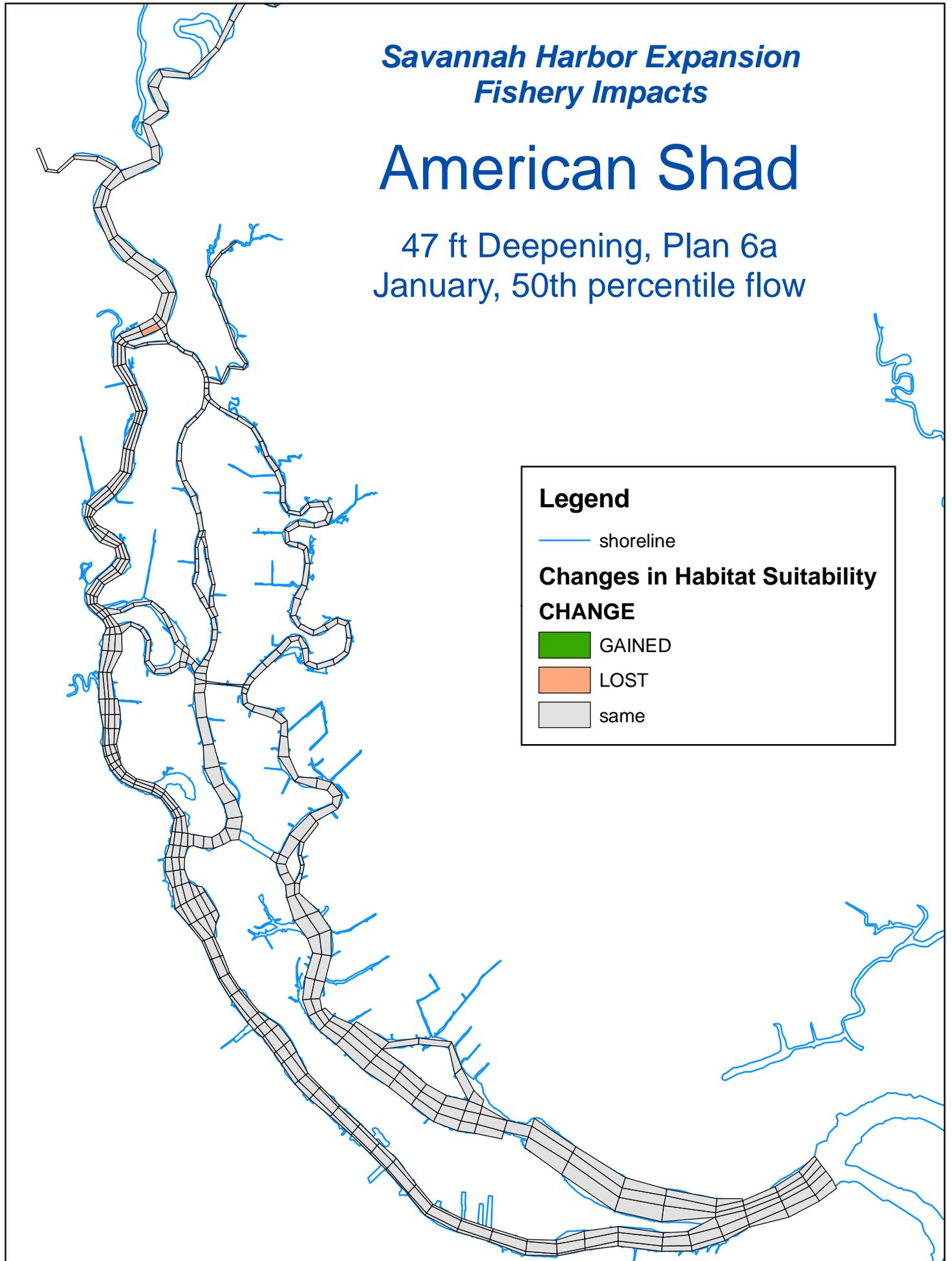
same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

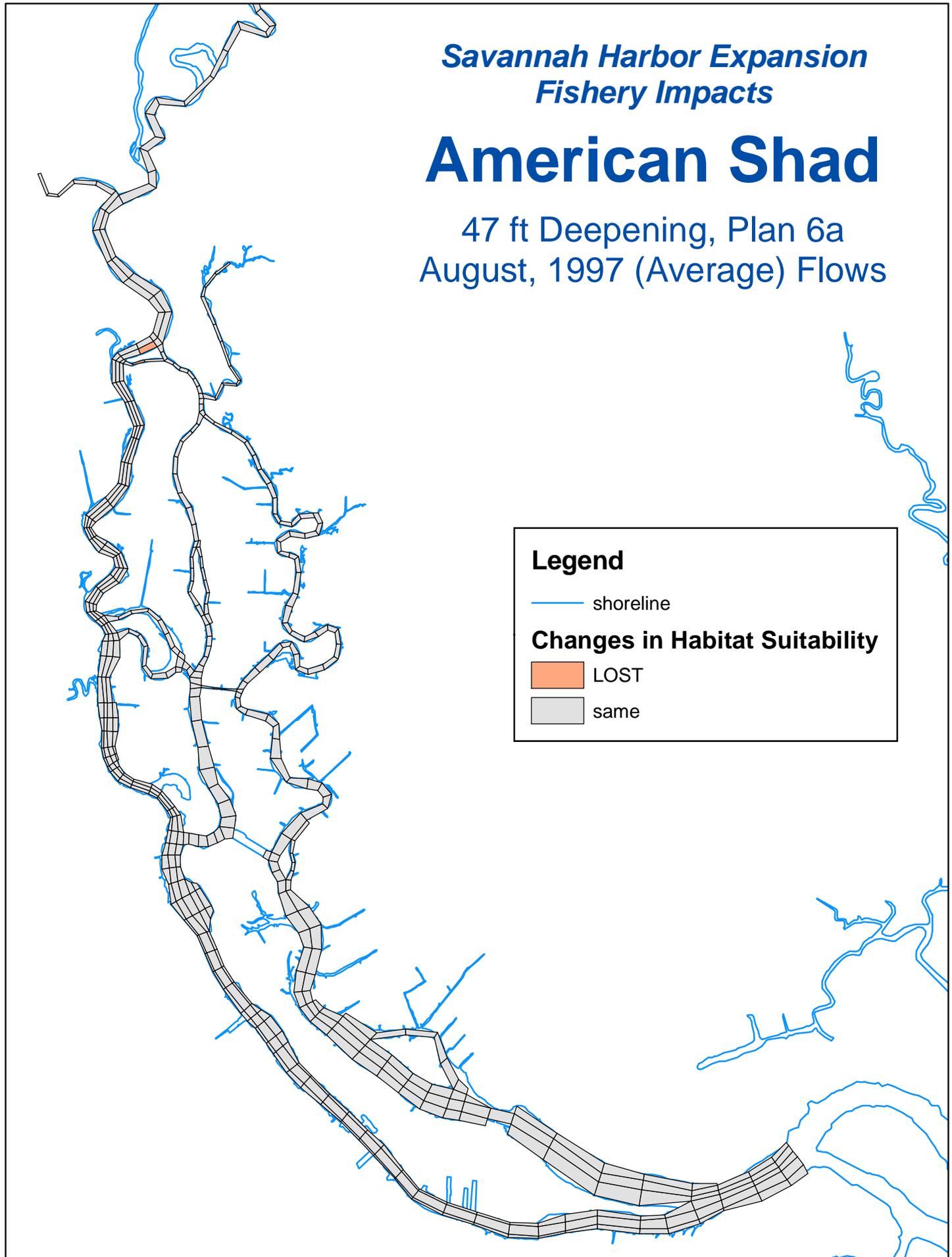
47 ft Deepening, Plan 6a
January, 50th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

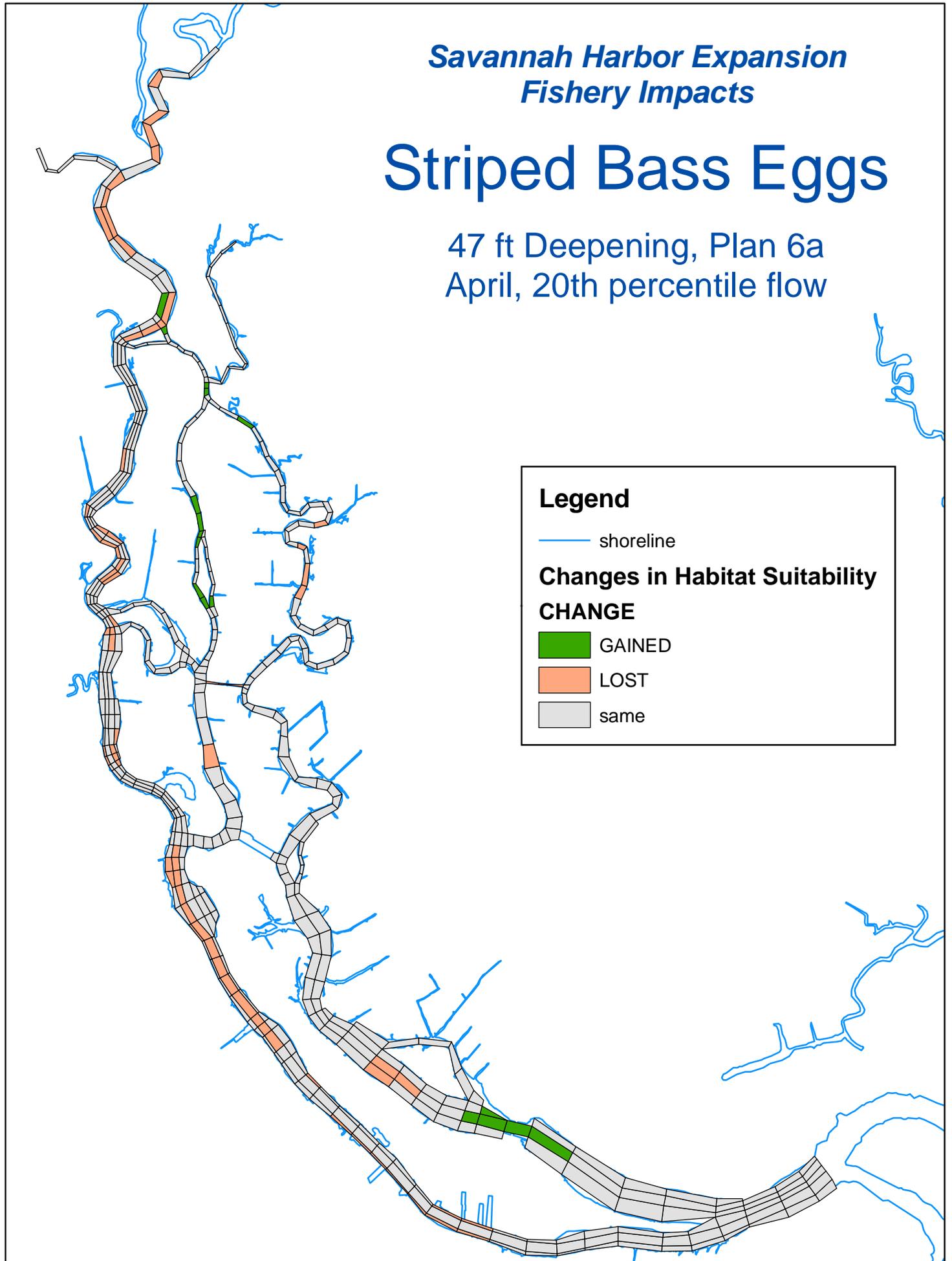
47 ft Deepening, Plan 6a
August, 1997 (Average) Flows



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

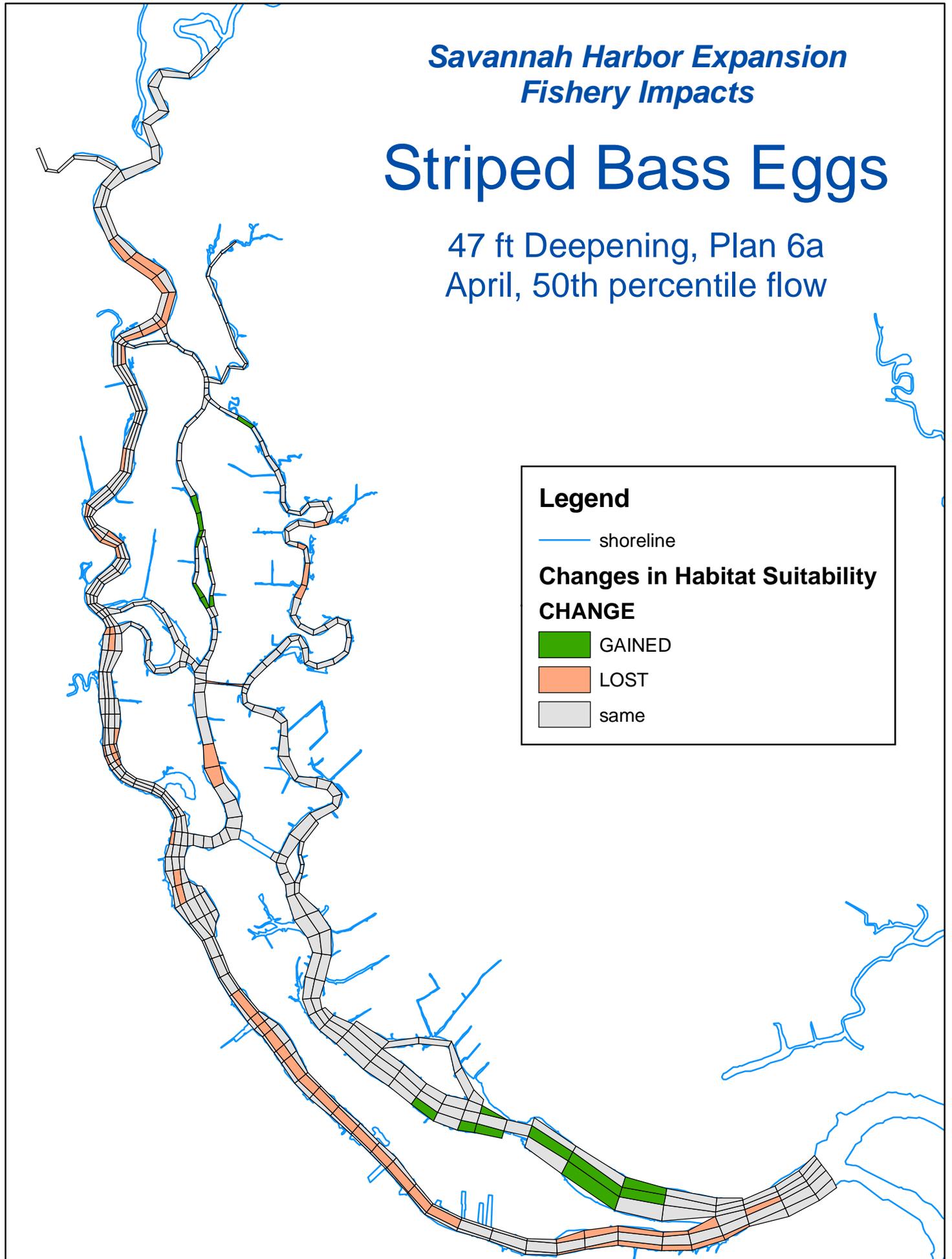
47 ft Deepening, Plan 6a
April, 20th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

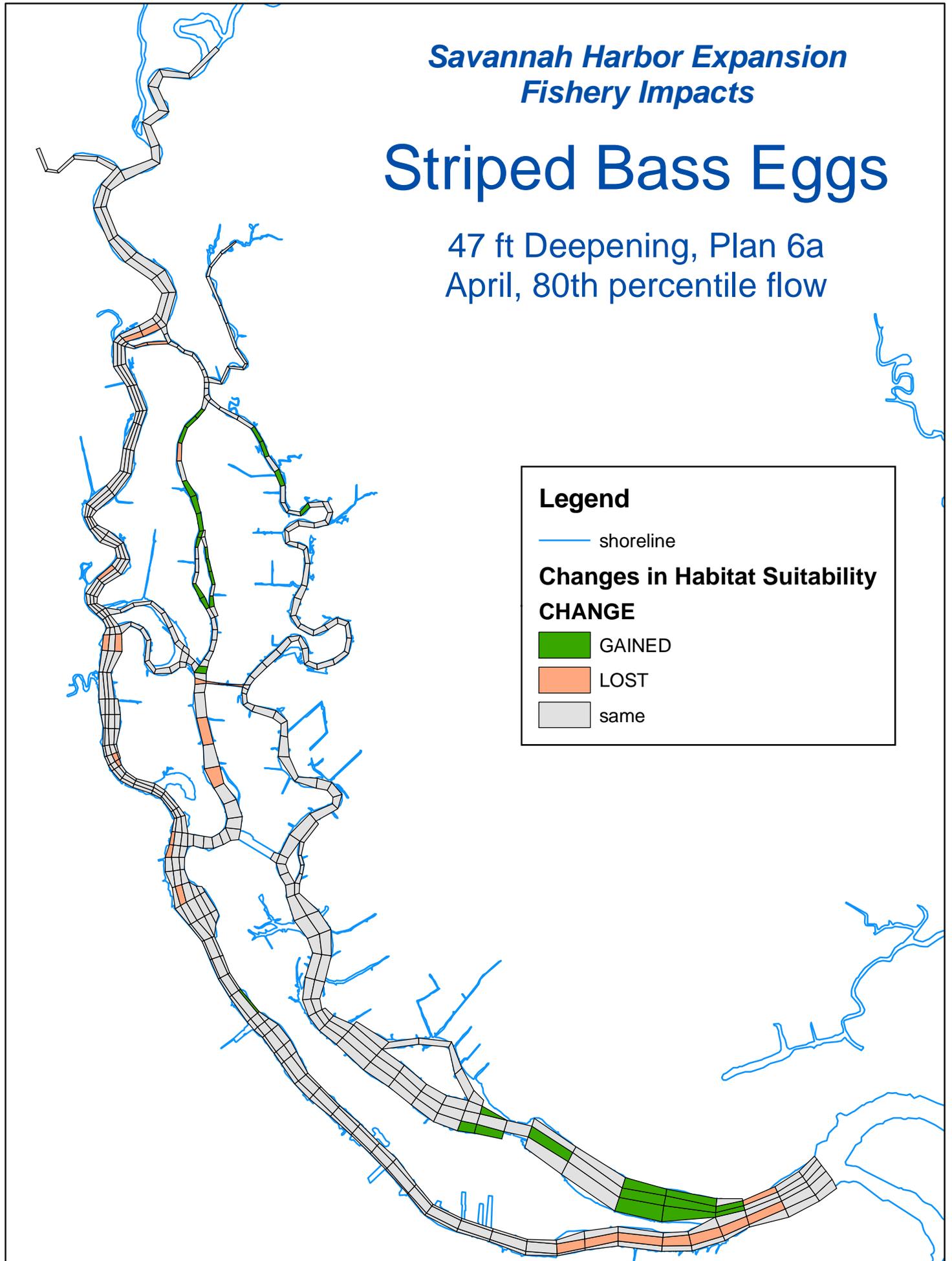
47 ft Deepening, Plan 6a
April, 50th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

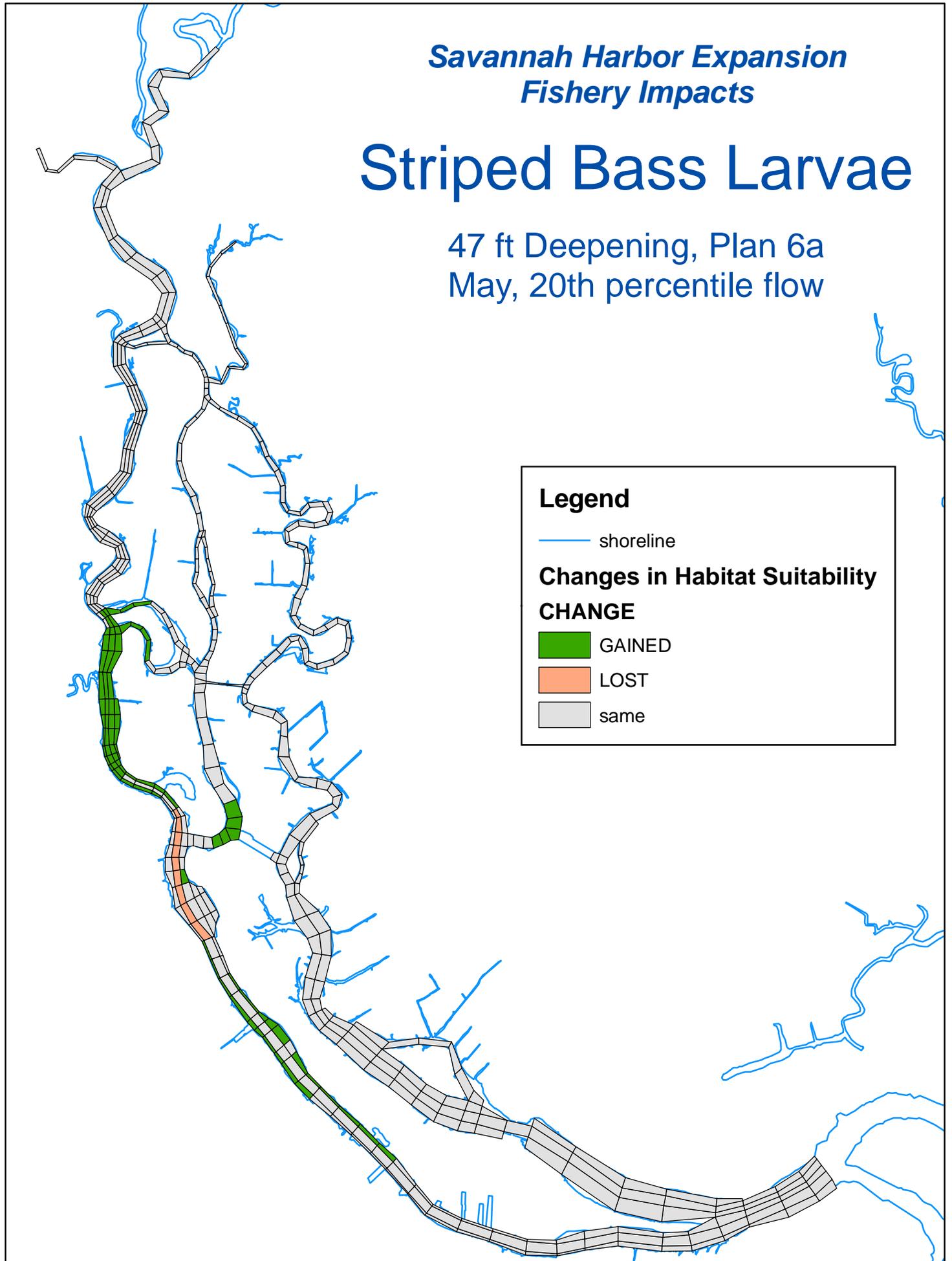
47 ft Deepening, Plan 6a
April, 80th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

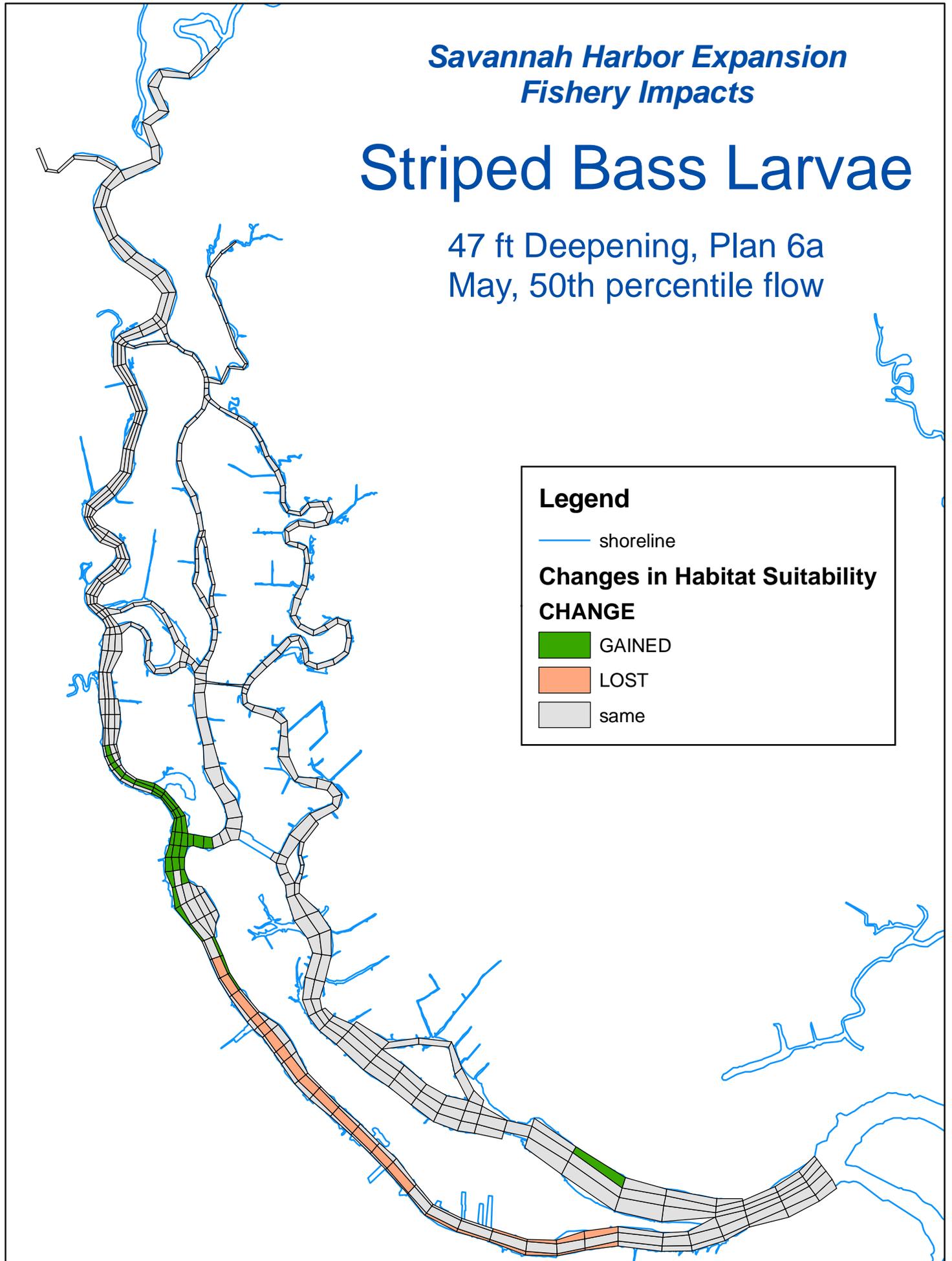
47 ft Deepening, Plan 6a
May, 20th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

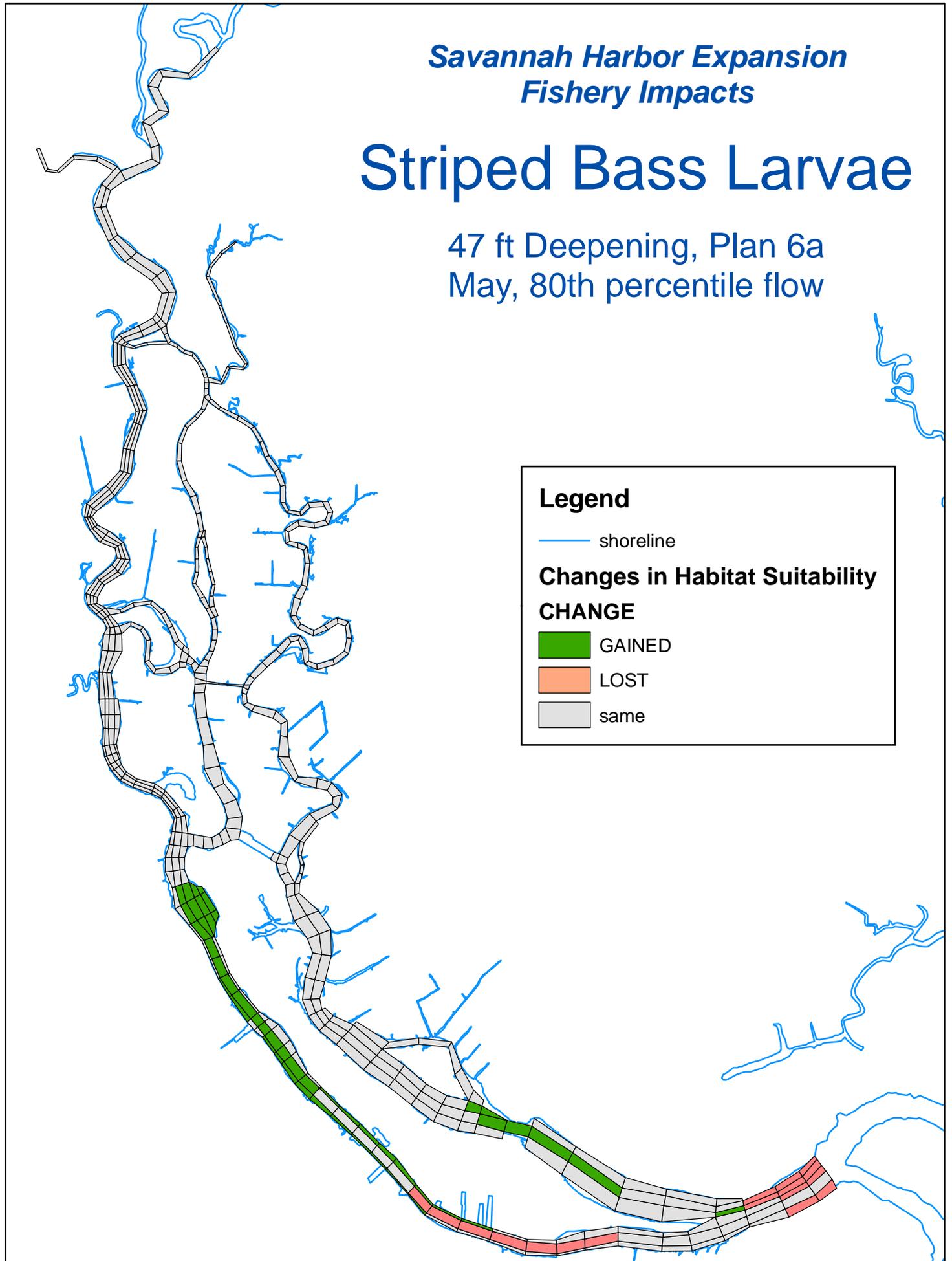
47 ft Deepening, Plan 6a
May, 50th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

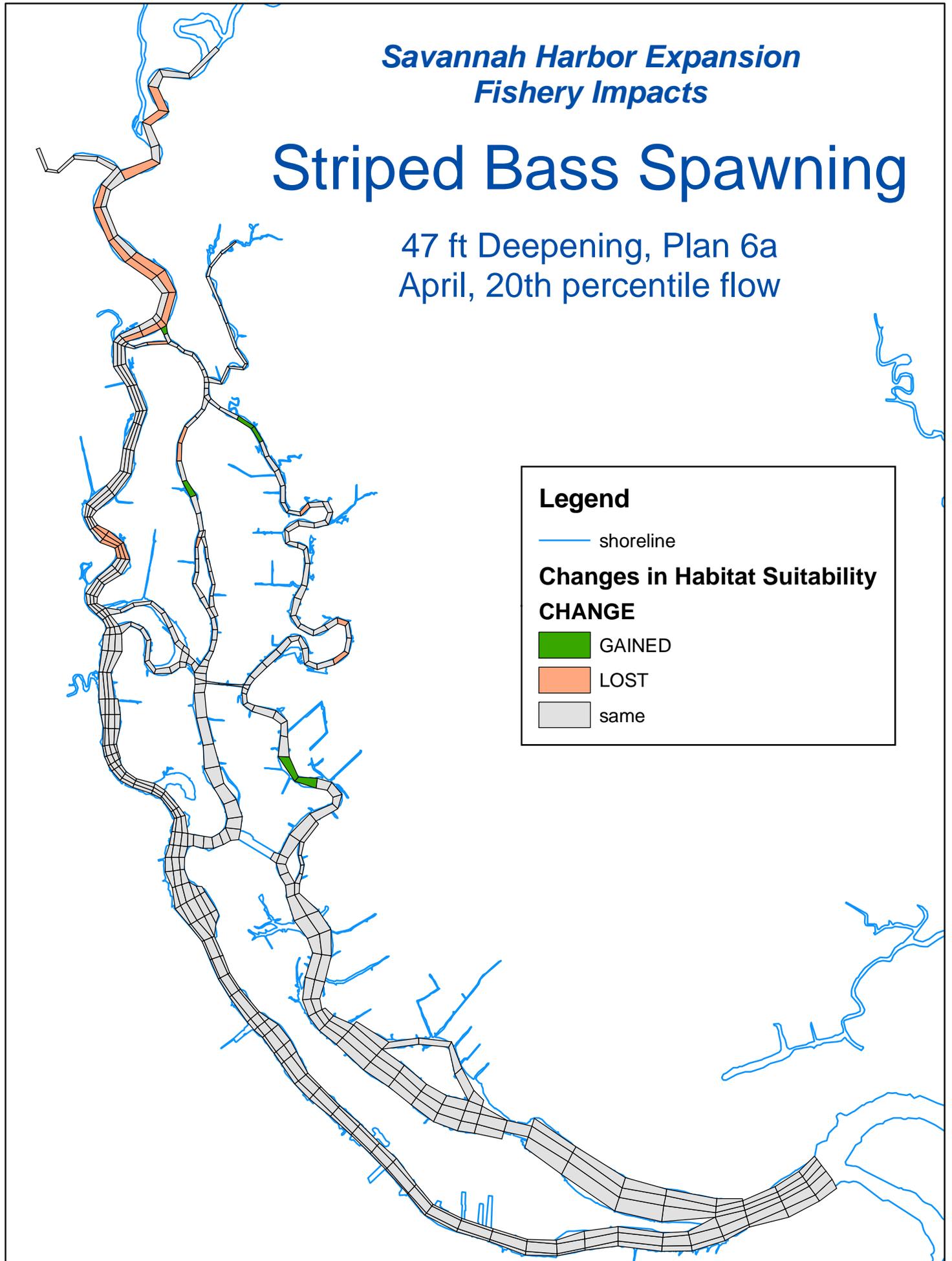
47 ft Deepening, Plan 6a
May, 80th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

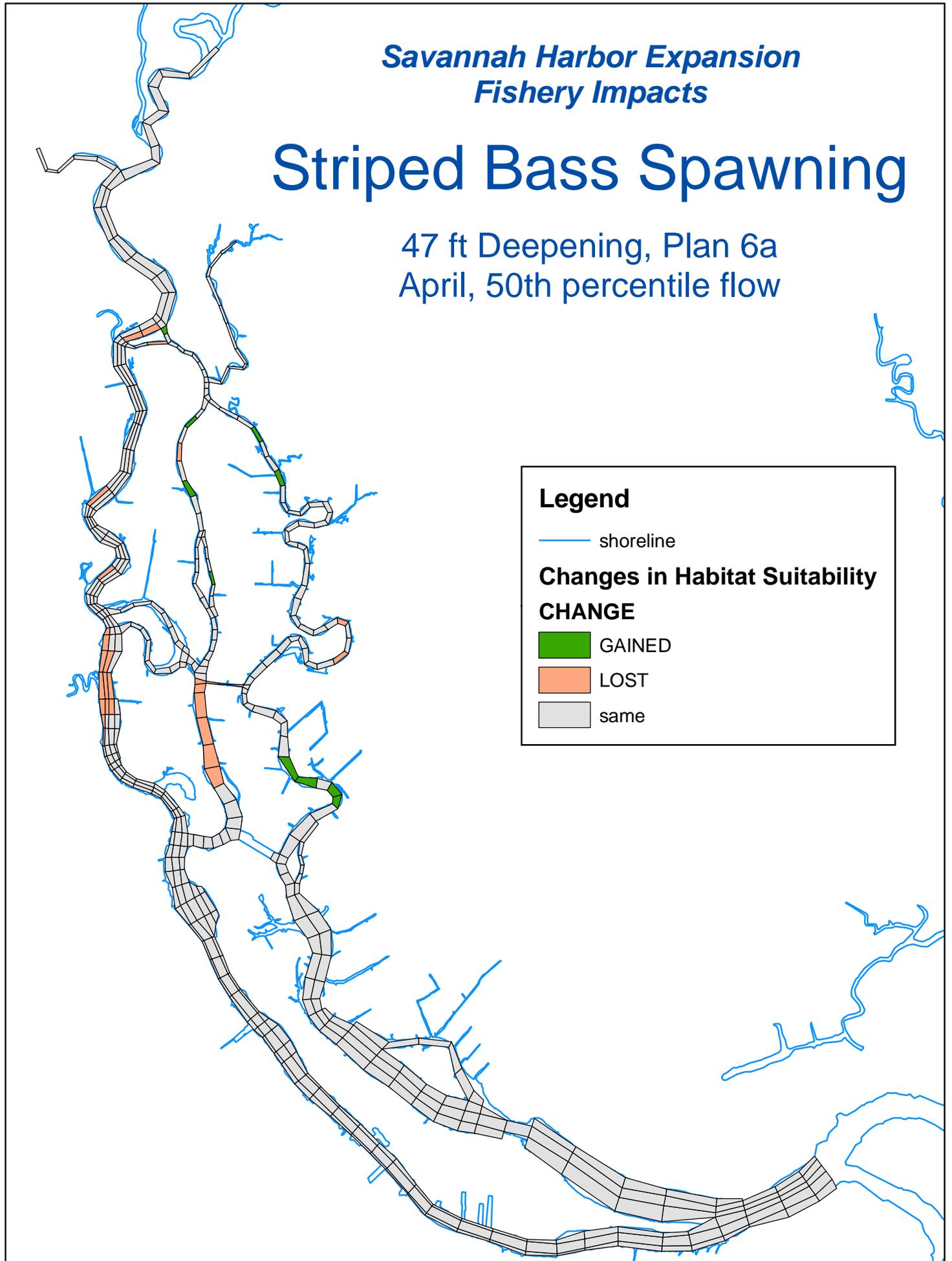
47 ft Deepening, Plan 6a
April, 20th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

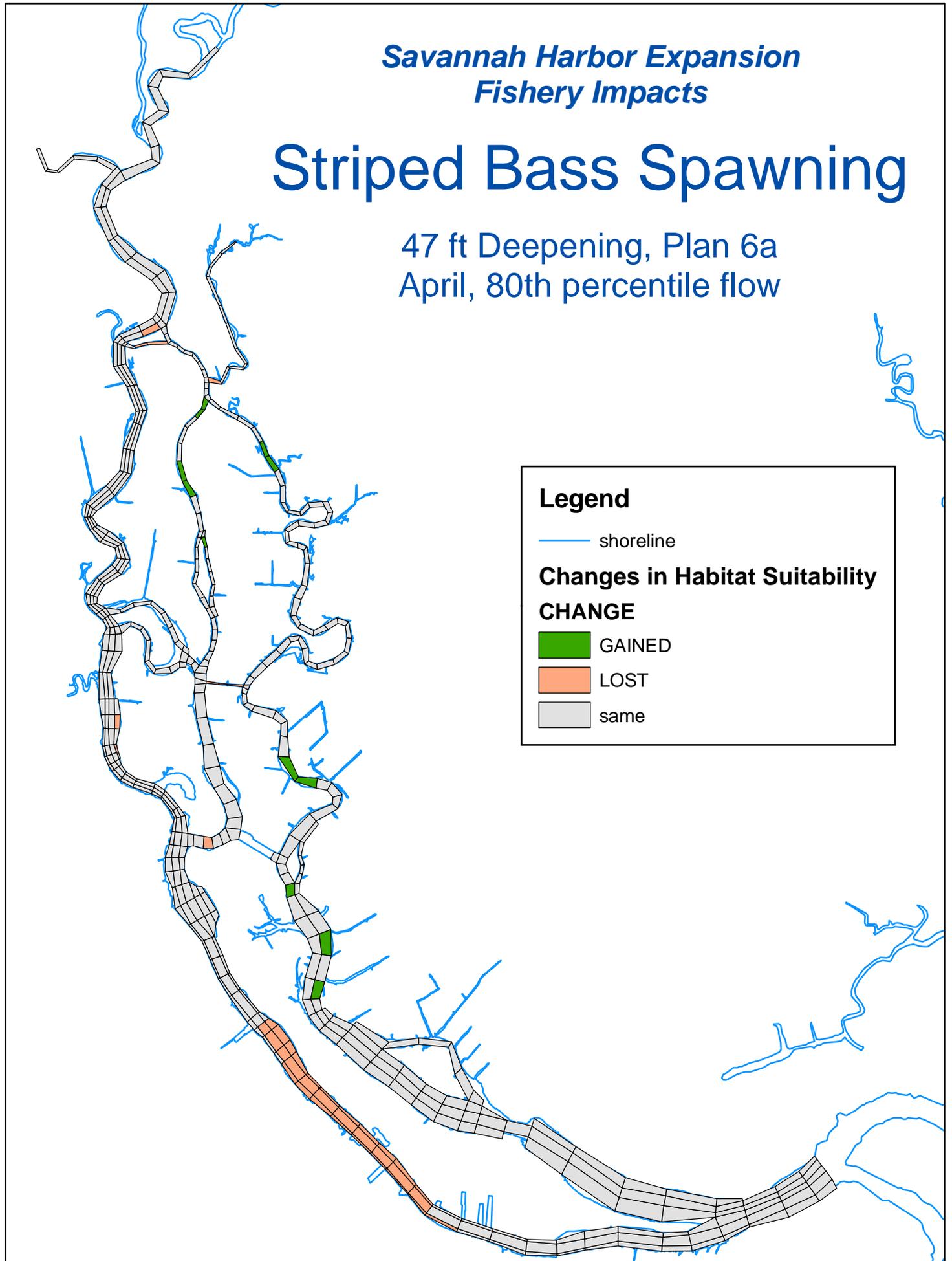
47 ft Deepening, Plan 6a
April, 50th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

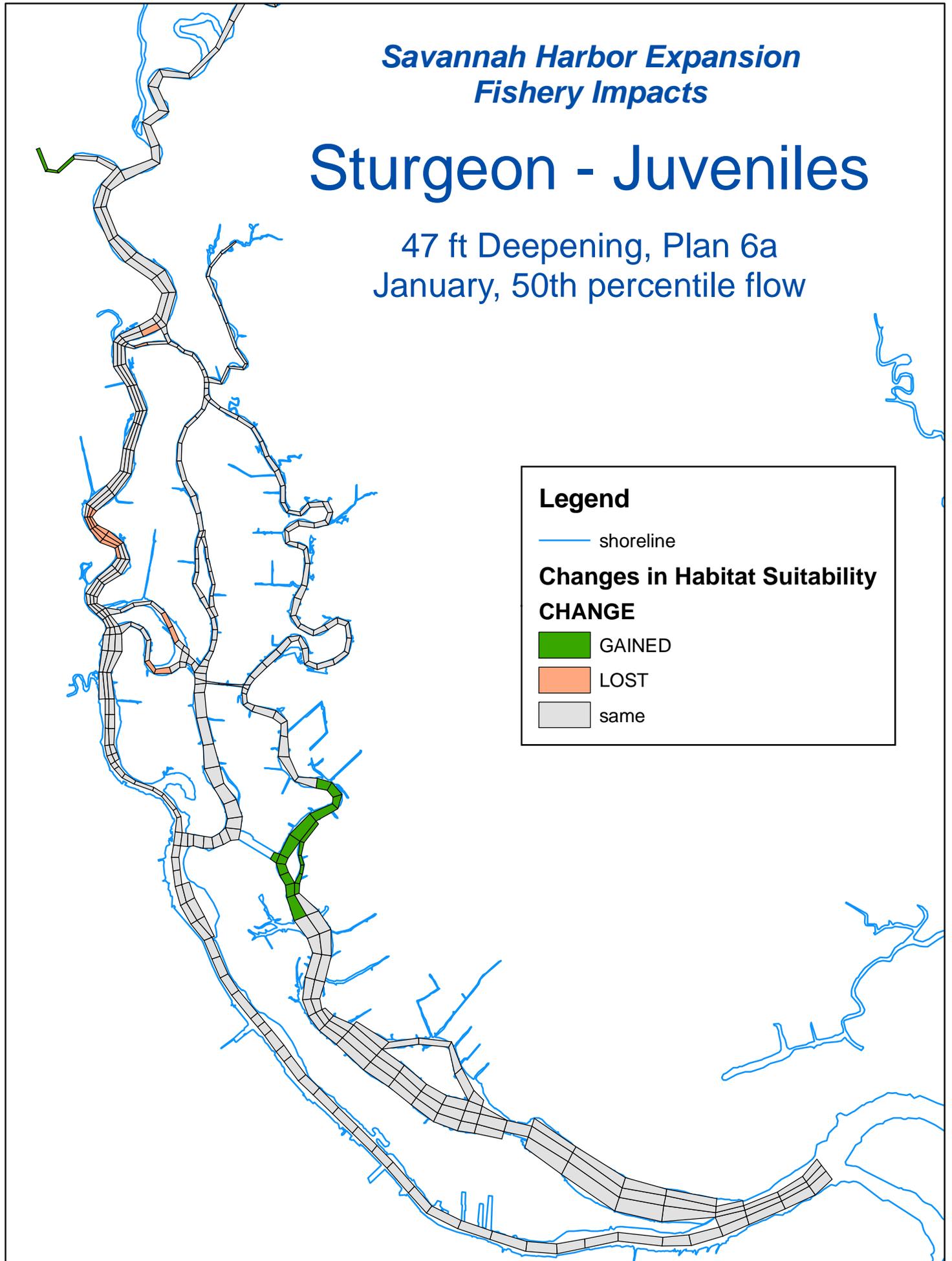
47 ft Deepening, Plan 6a
April, 80th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Juveniles

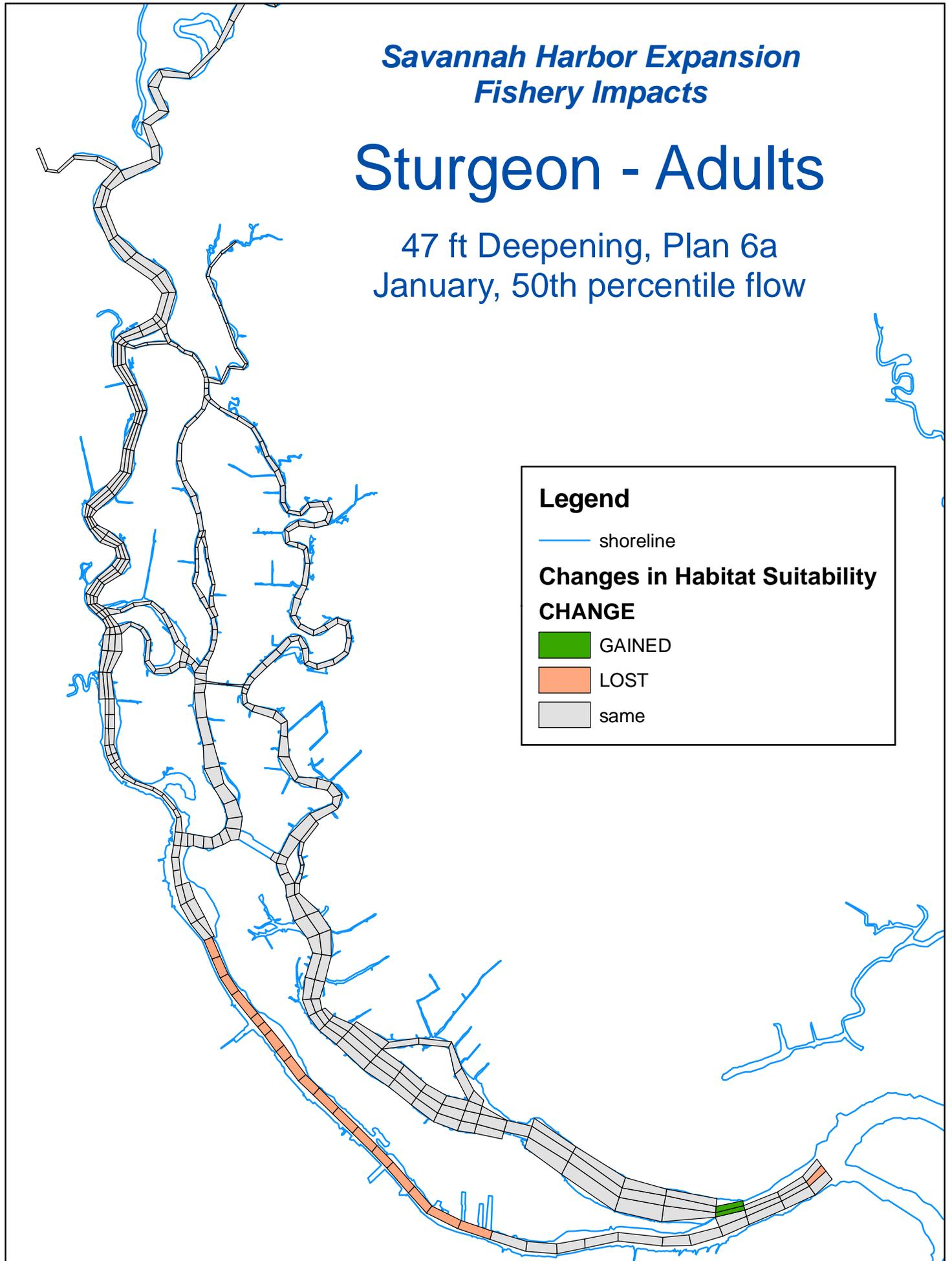
47 ft Deepening, Plan 6a
January, 50th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

47 ft Deepening, Plan 6a
January, 50th percentile flow



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

47 ft Deepening, Plan 6a
August, 1997 (Average) Flows

Legend

— shoreline

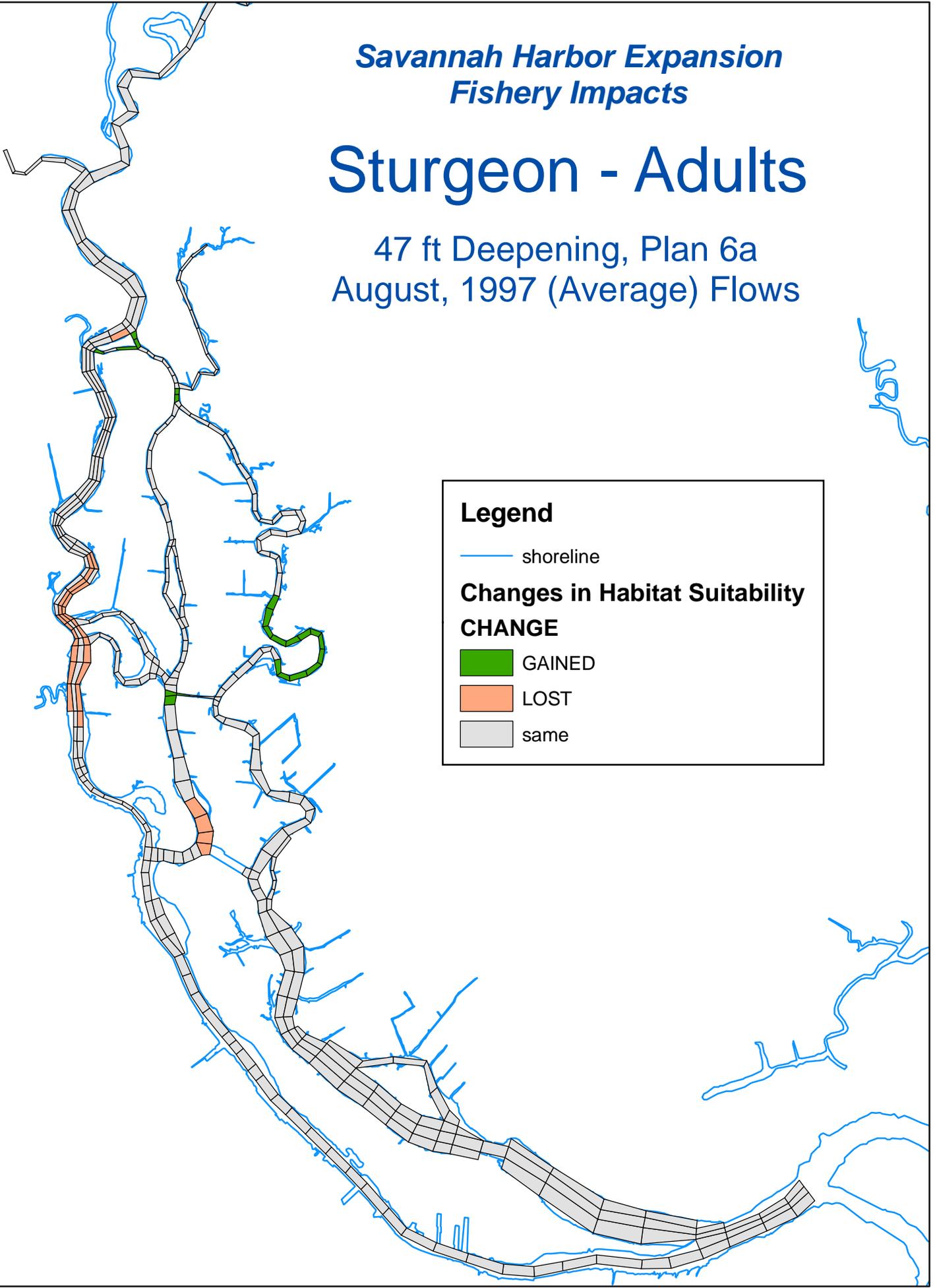
Changes in Habitat Suitability

CHANGE

GAINED

LOST

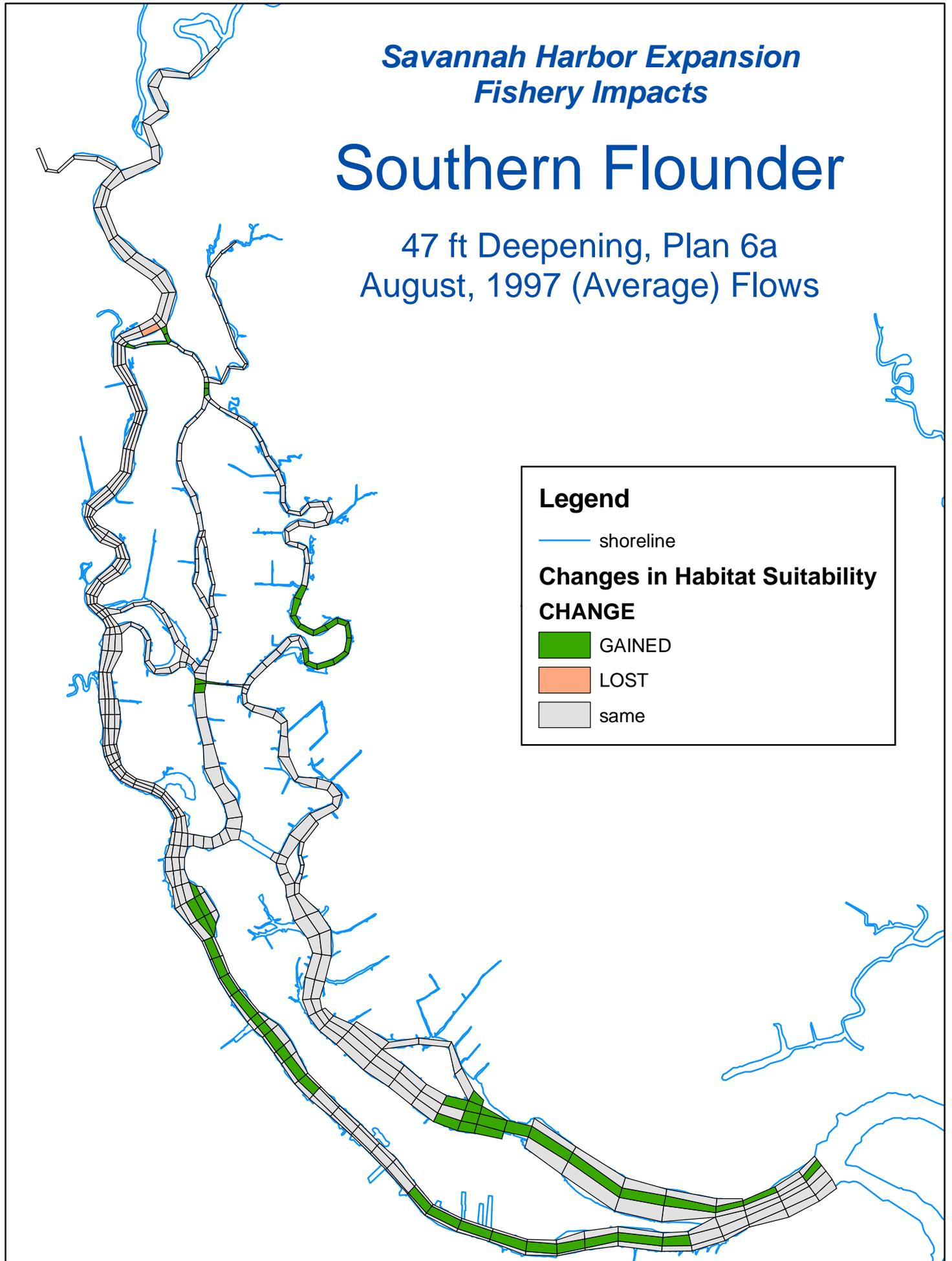
same



*Savannah Harbor Expansion
Fishery Impacts*

Southern Flounder

47 ft Deepening, Plan 6a
August, 1997 (Average) Flows



48 ft Channel Depth

Mitigation Plan 6a

*Savannah Harbor Expansion
Fishery Impacts*

American Shad

48 ft Deepening, Plan 6a
May 20th percentile flow

Legend

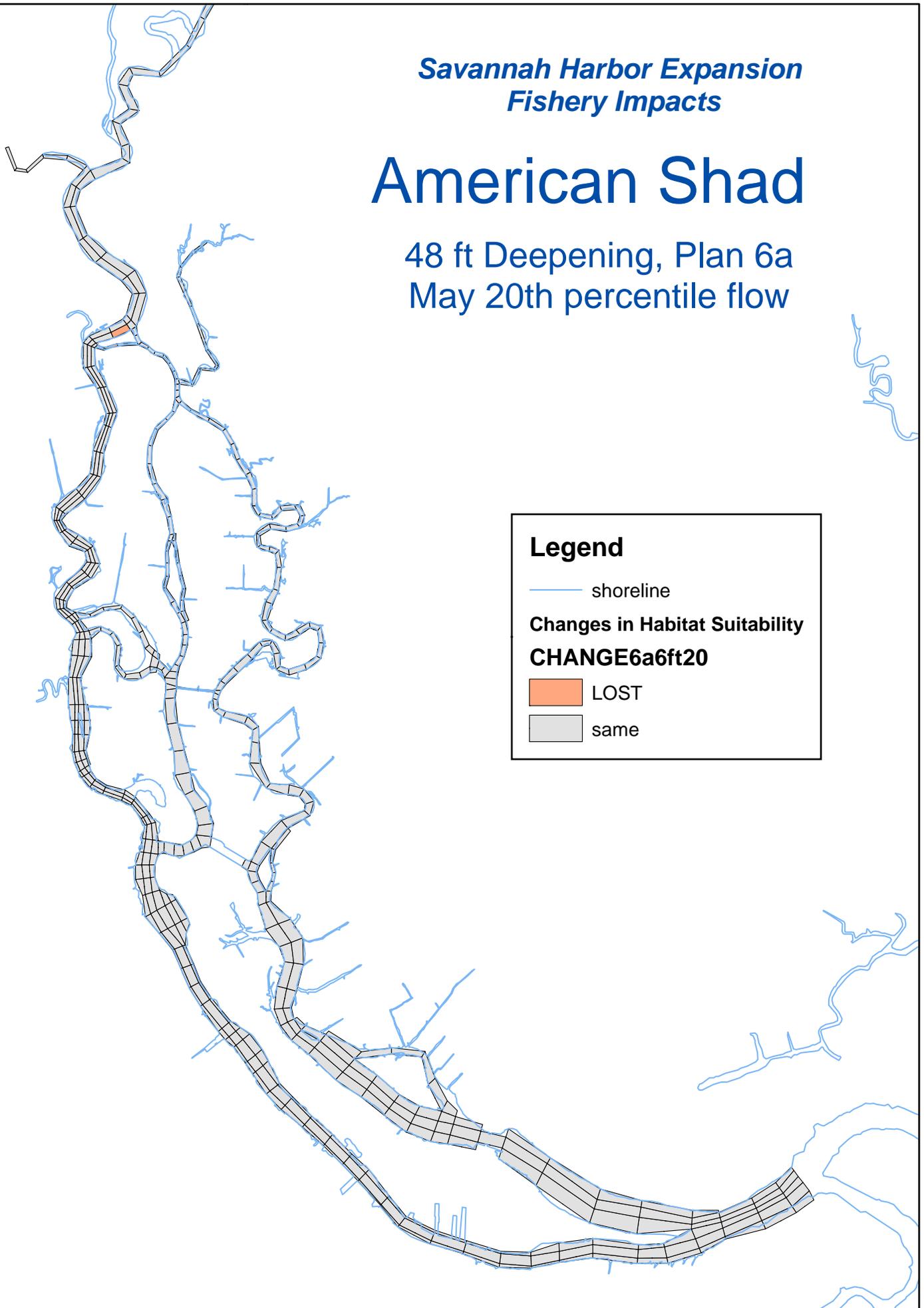
— shoreline

Changes in Habitat Suitability

CHANGE6a6ft20

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

48 ft Deepening, Plan 6a
May 50th percentile flow

Legend

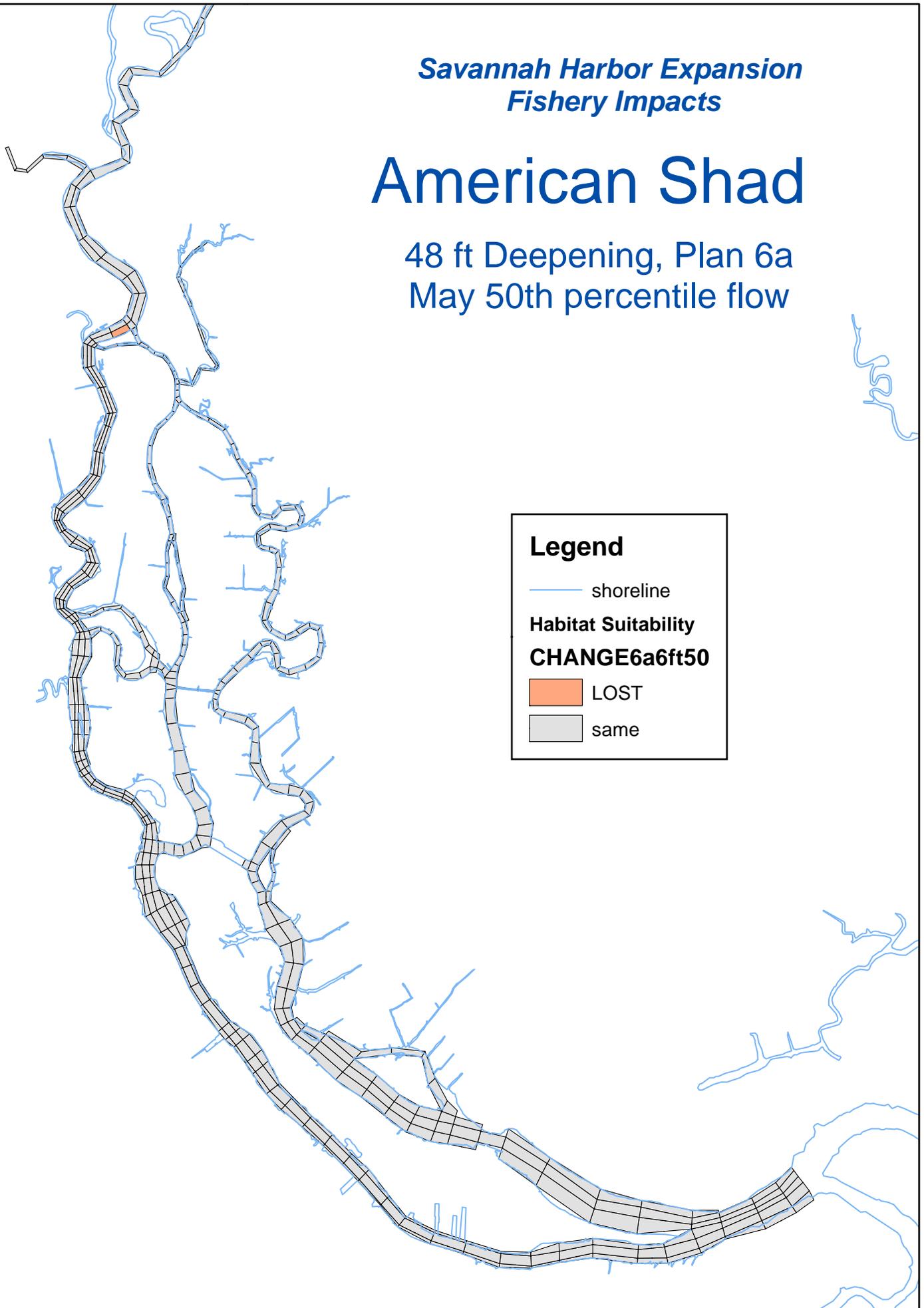
— shoreline

Habitat Suitability

CHANGE6a6ft50

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

48 ft Deepening, Plan 6a
May 80th percentile flow

Legend

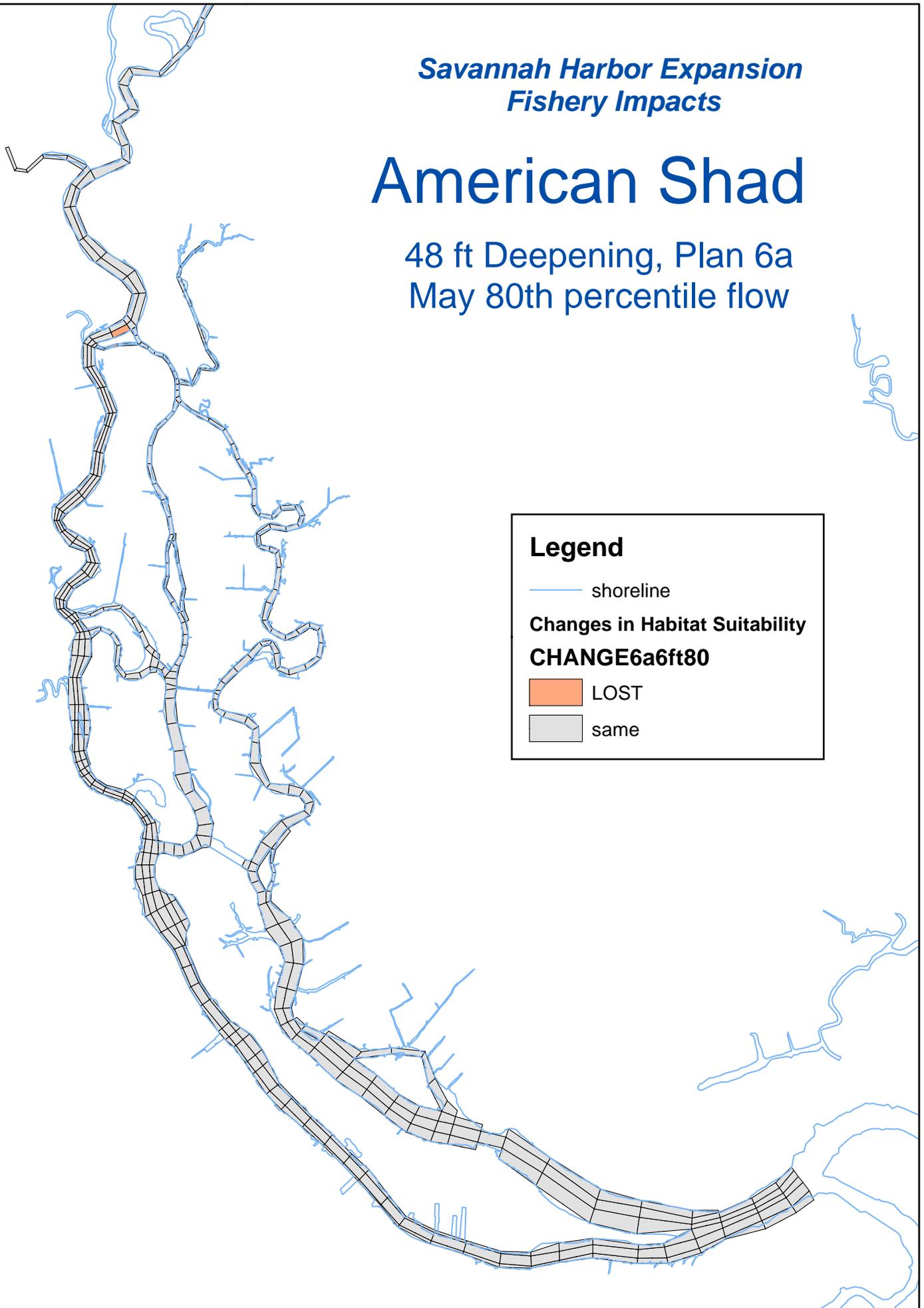
— shoreline

Changes in Habitat Suitability

CHANGE6a6ft80

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

48 ft Deepening, Plan 6a
January 50th percentile flow

Legend

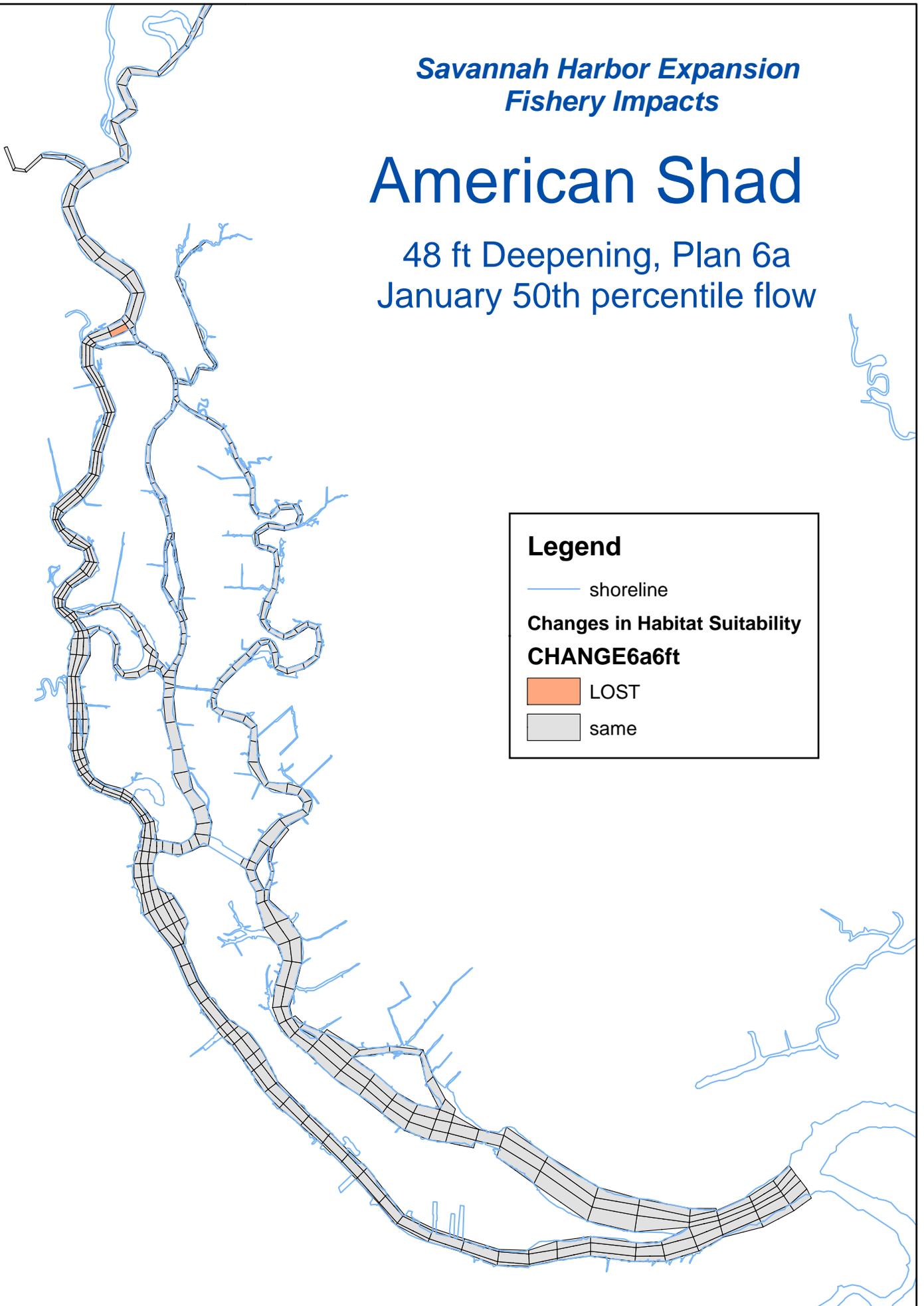
— shoreline

Changes in Habitat Suitability

CHANGE6a6ft

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

American Shad

48 ft Deepening, Plan 6a
August, 1997 (Average) Flows

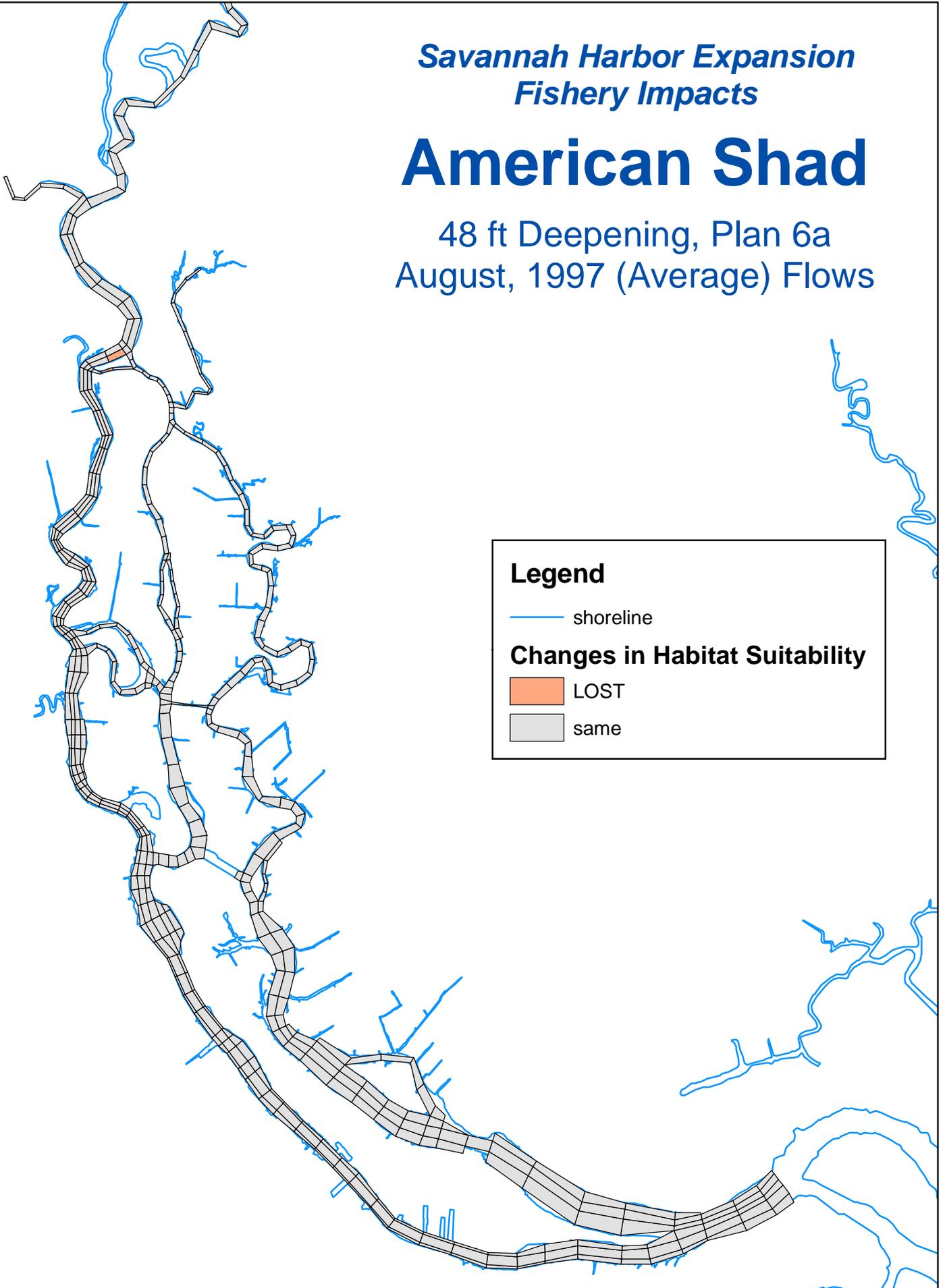
Legend

— shoreline

Changes in Habitat Suitability

LOST

same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

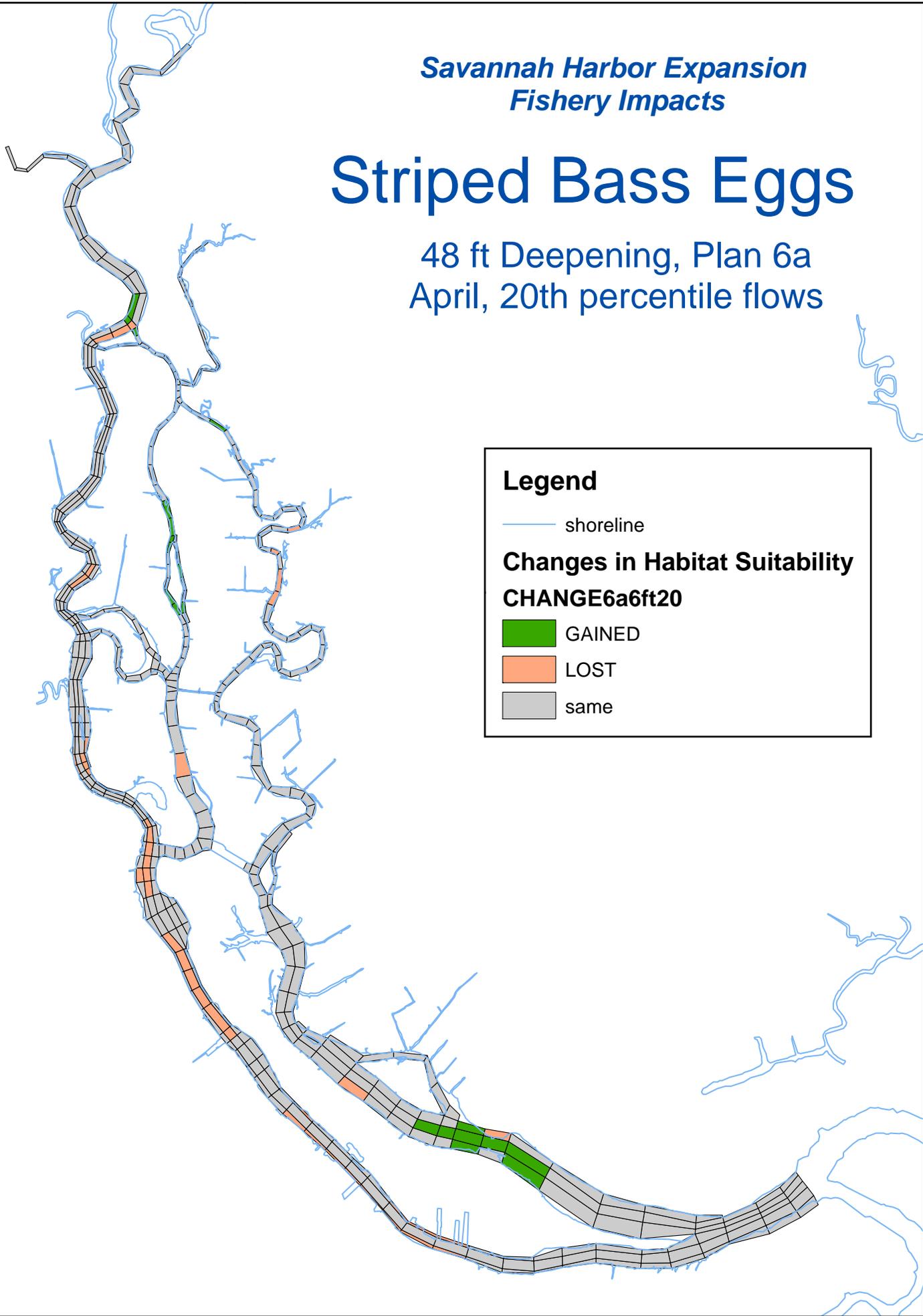
48 ft Deepening, Plan 6a
April, 20th percentile flows

Legend

— shoreline

Changes in Habitat Suitability
CHANGE6a6ft20

	GAINED
	LOST
	same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

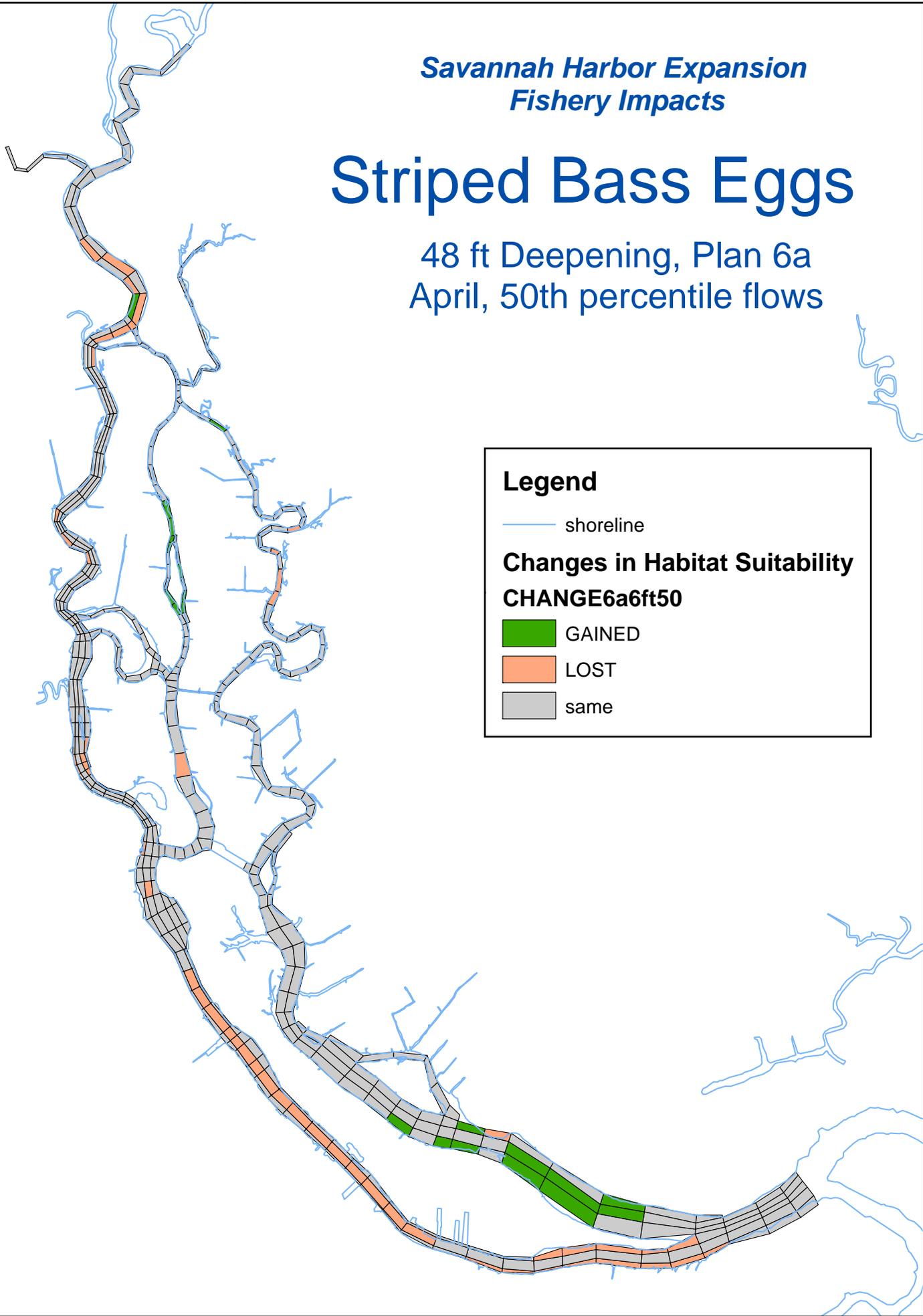
48 ft Deepening, Plan 6a
April, 50th percentile flows

Legend

— shoreline

Changes in Habitat Suitability
CHANGE6a6ft50

	GAINED
	LOST
	same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Eggs

48 ft Deepening, Plan 6a
April, 80th percentile flows

Legend

— shoreline

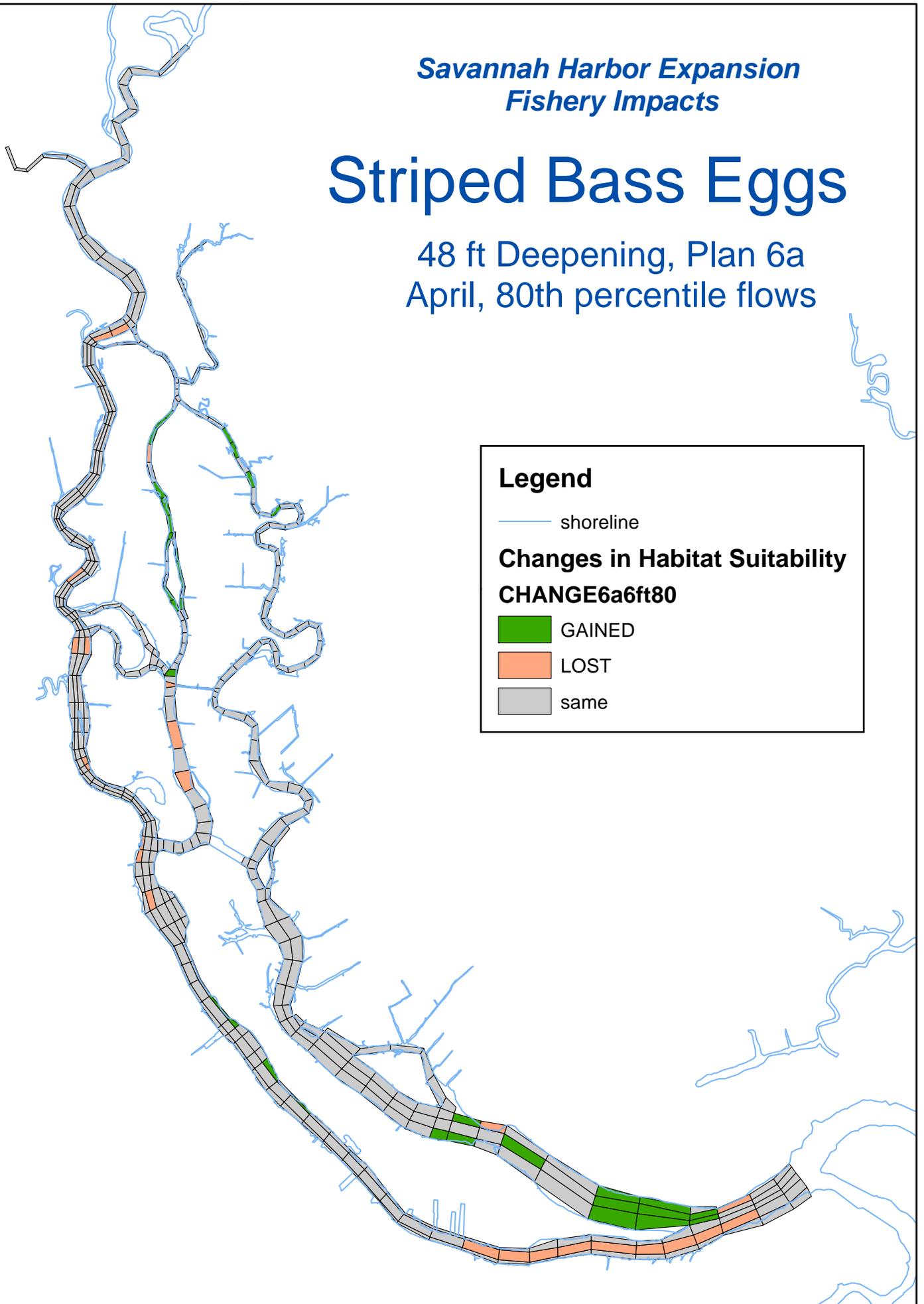
Changes in Habitat Suitability

CHANGE6a6ft80

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

48 ft Deepening, Plan 6a
May, 20th percentile flows

Legend

— shoreline

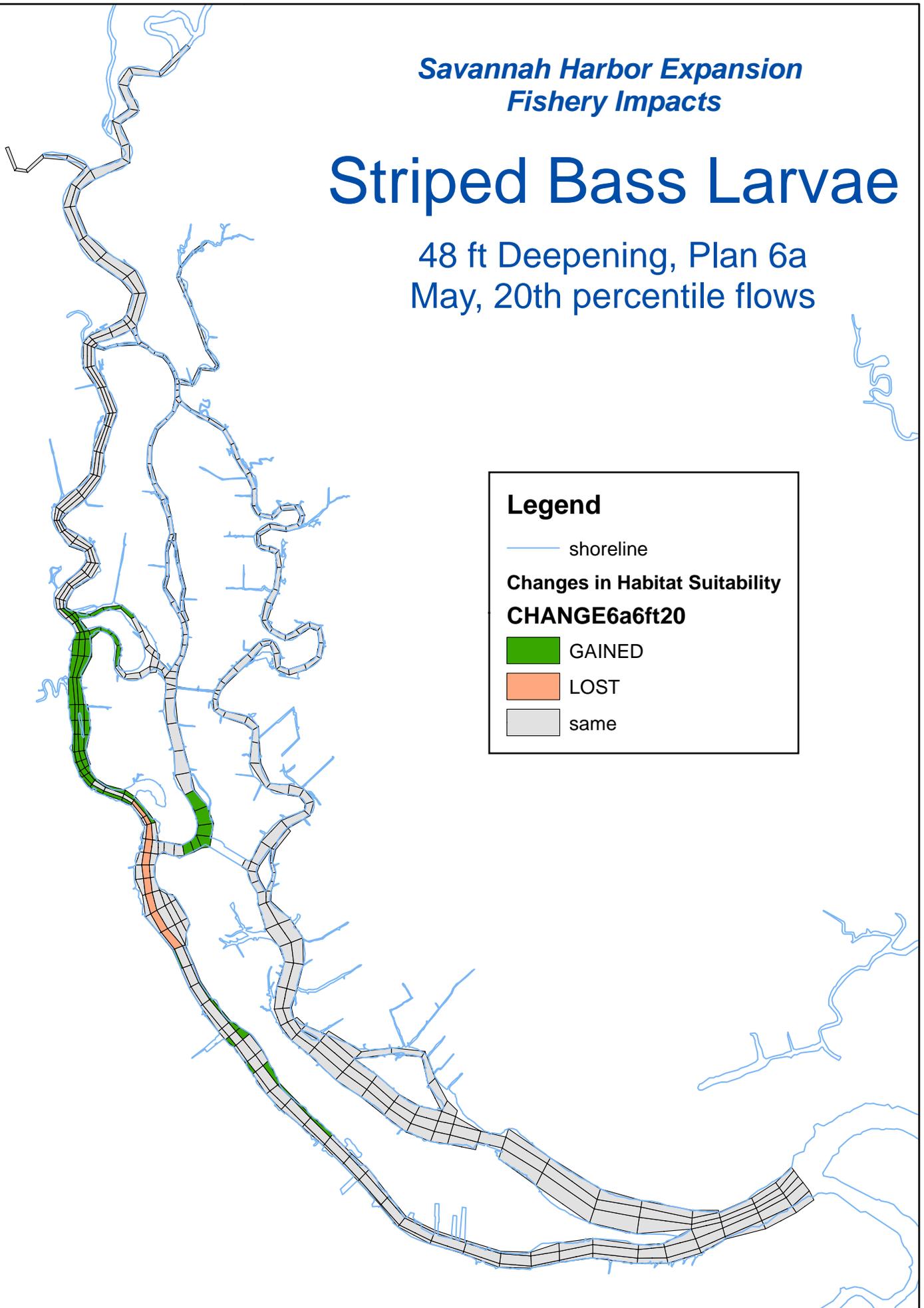
Changes in Habitat Suitability

CHANGE6a6ft20

 GAINED

 LOST

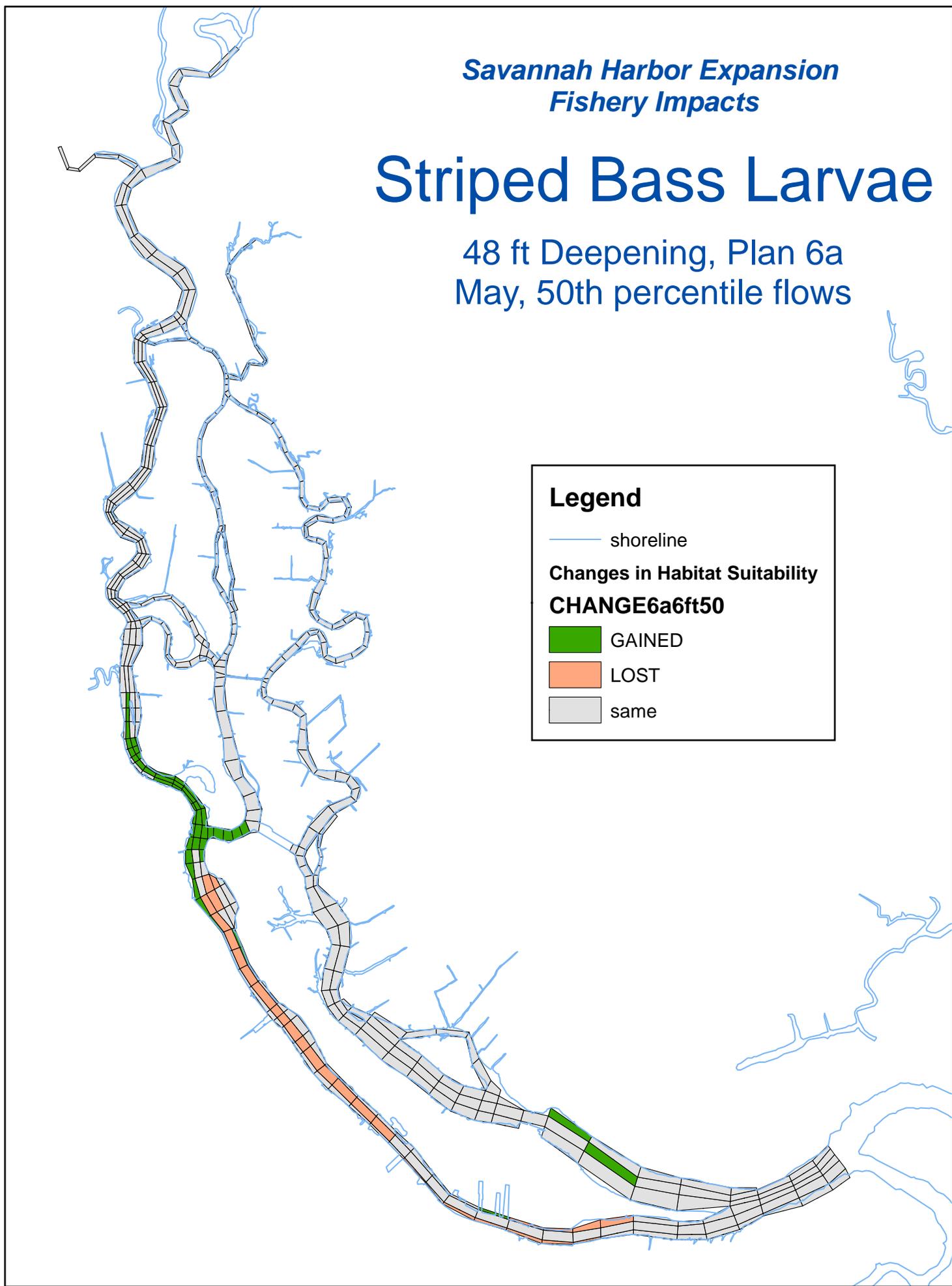
 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

48 ft Deepening, Plan 6a
May, 50th percentile flows



Legend

— shoreline

Changes in Habitat Suitability

CHANGE6a6ft50

GAINED

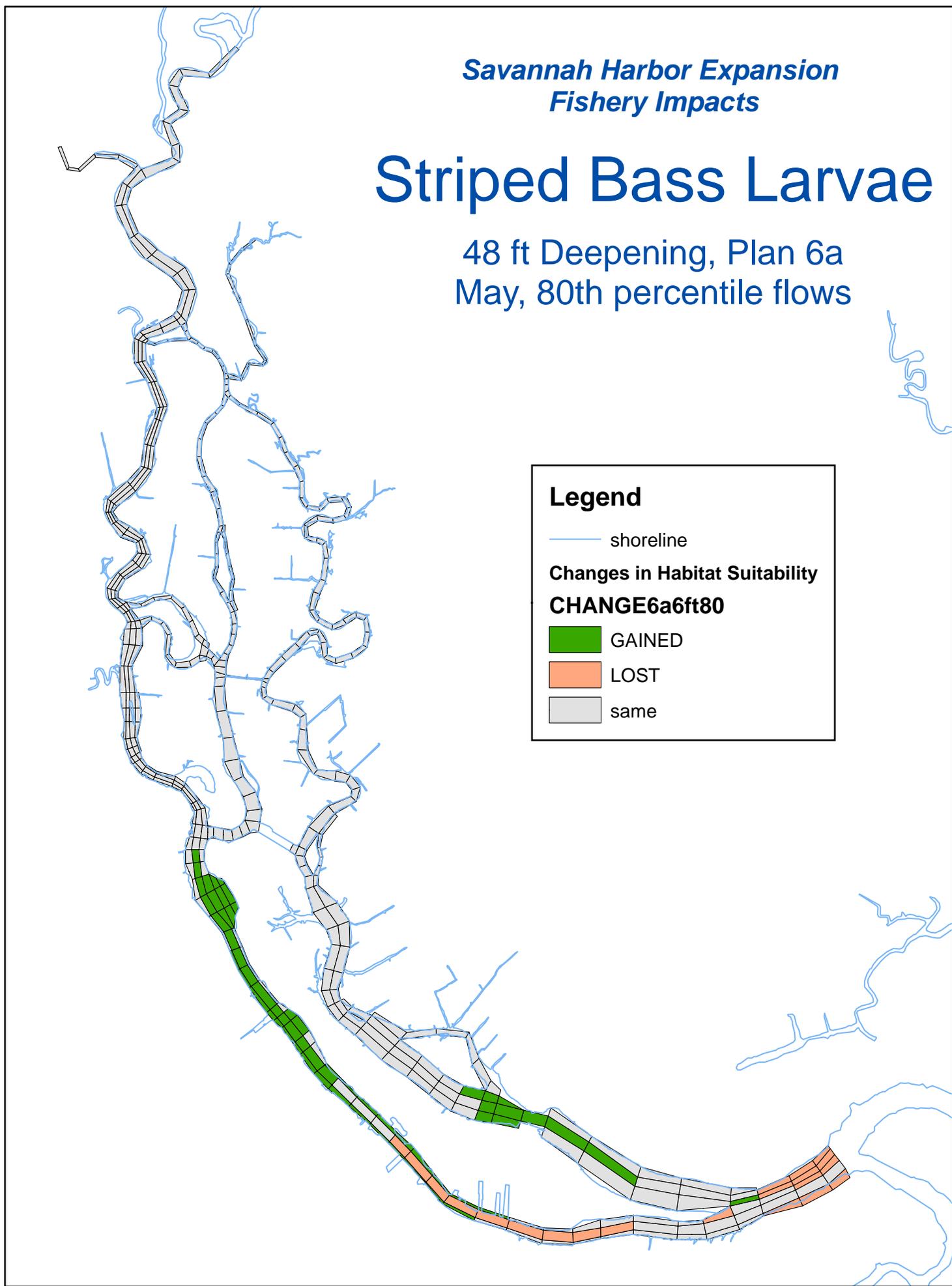
LOST

same

*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Larvae

48 ft Deepening, Plan 6a
May, 80th percentile flows



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

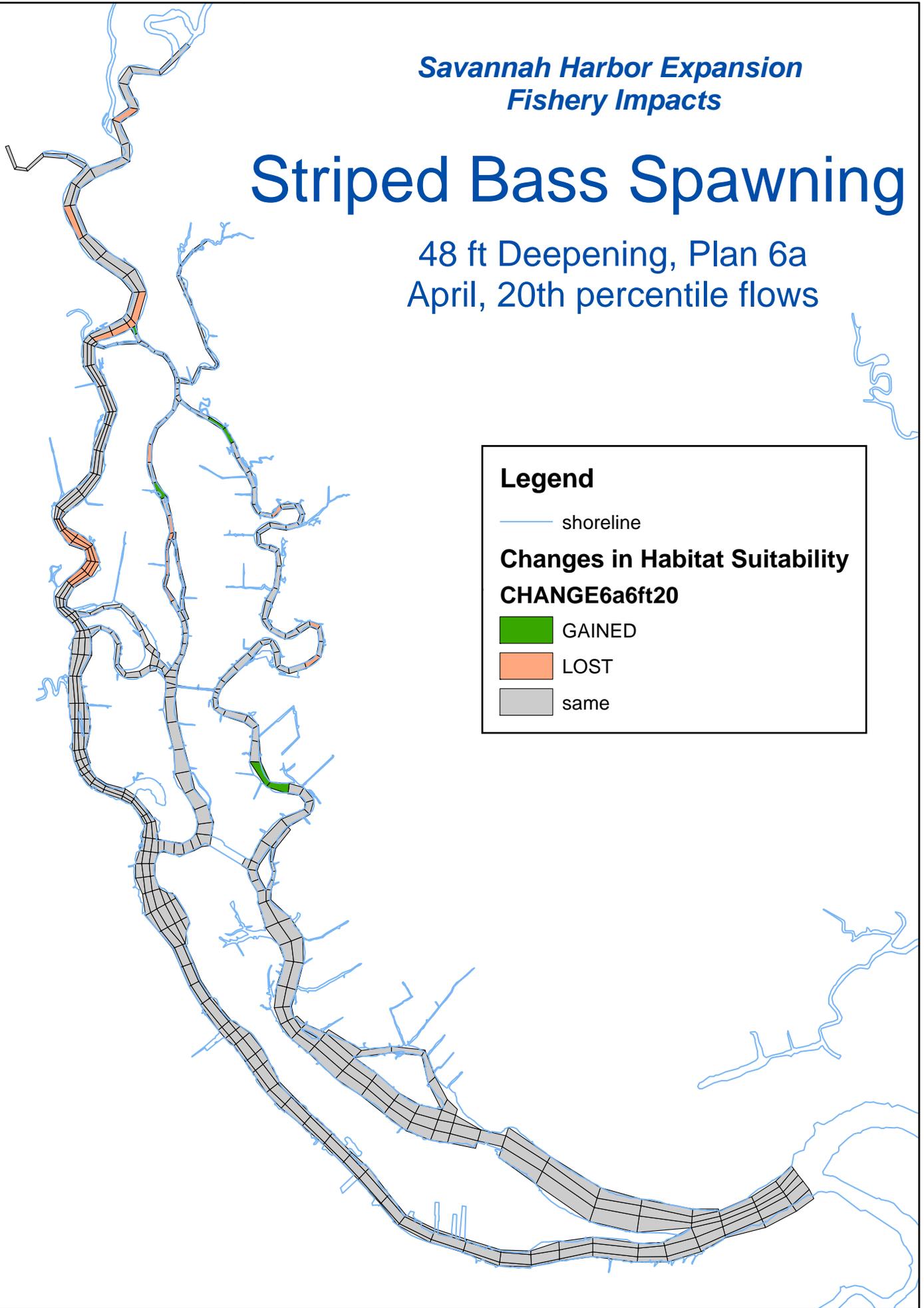
48 ft Deepening, Plan 6a
April, 20th percentile flows

Legend

— shoreline

Changes in Habitat Suitability
CHANGE6a6ft20

	GAINED
	LOST
	same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

48 ft Deepening, Plan 6a
April, 50th percentile flows

Legend

— shoreline

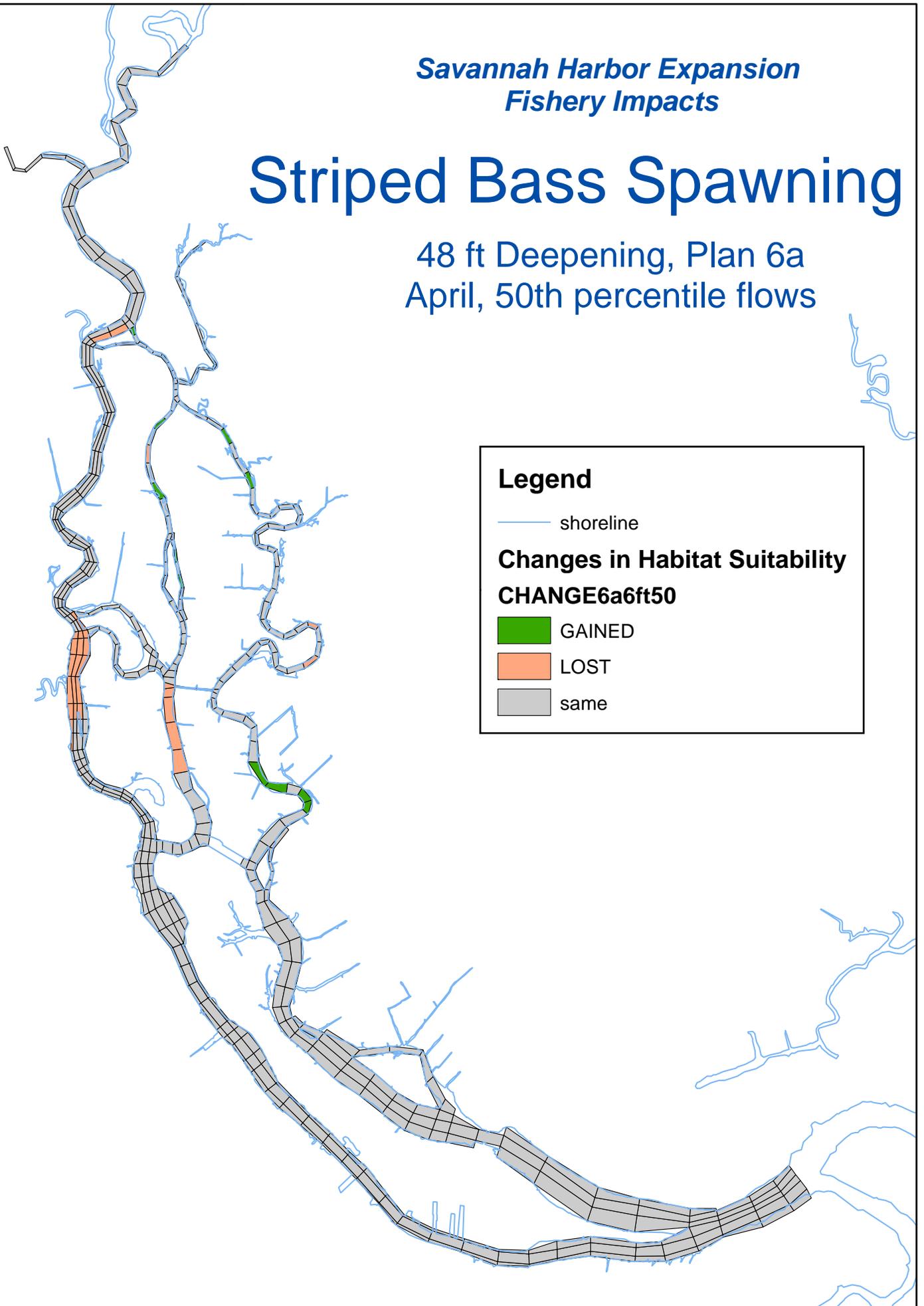
Changes in Habitat Suitability

CHANGE6a6ft50

 GAINED

 LOST

 same



*Savannah Harbor Expansion
Fishery Impacts*

Striped Bass Spawning

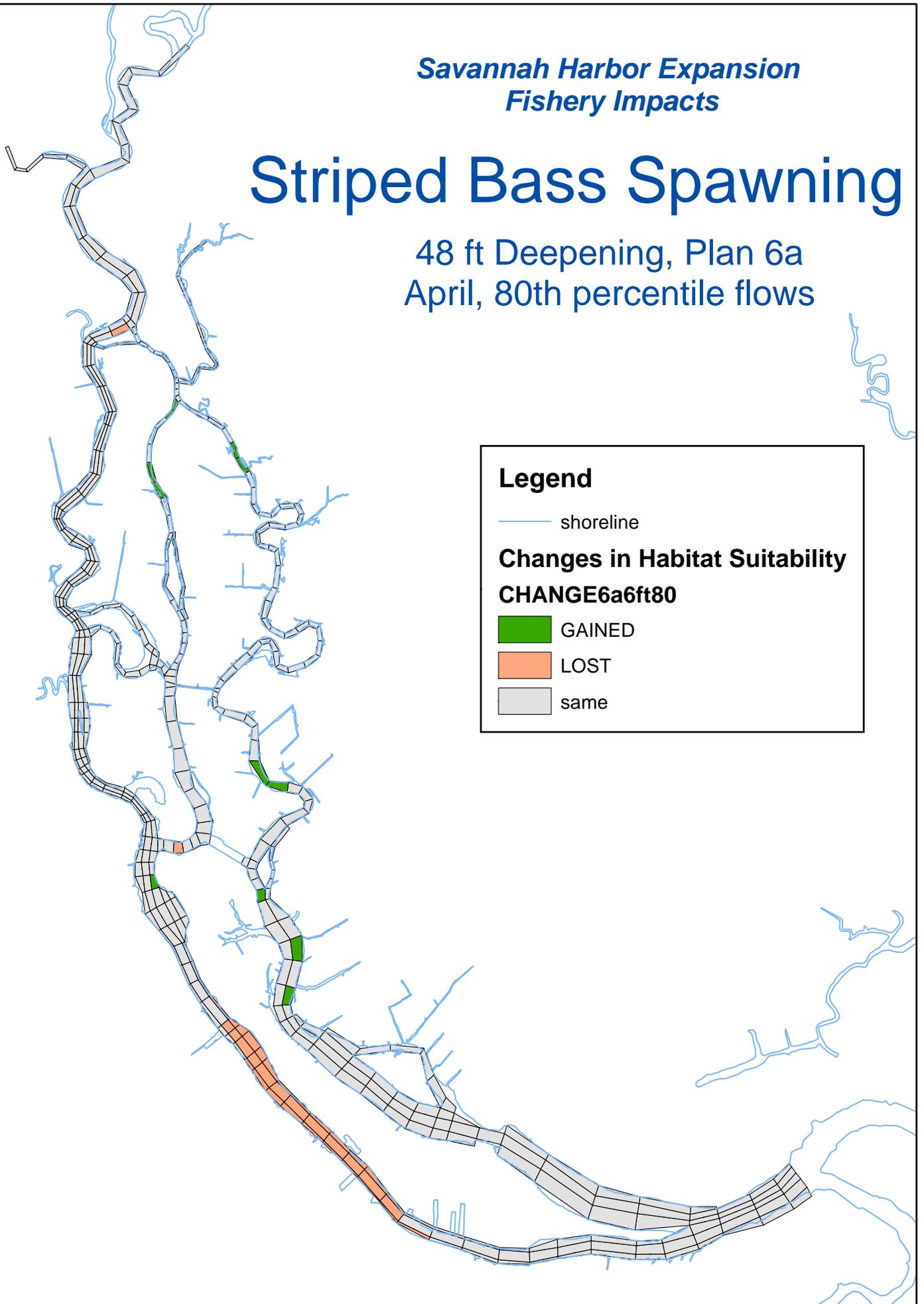
48 ft Deepening, Plan 6a
April, 80th percentile flows

Legend

— shoreline

Changes in Habitat Suitability
CHANGE6a6ft80

	GAINED
	LOST
	same



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Juveniles

48 ft Deepening, Plan 6a
January, 50th percentile flows

Legend

— shoreline

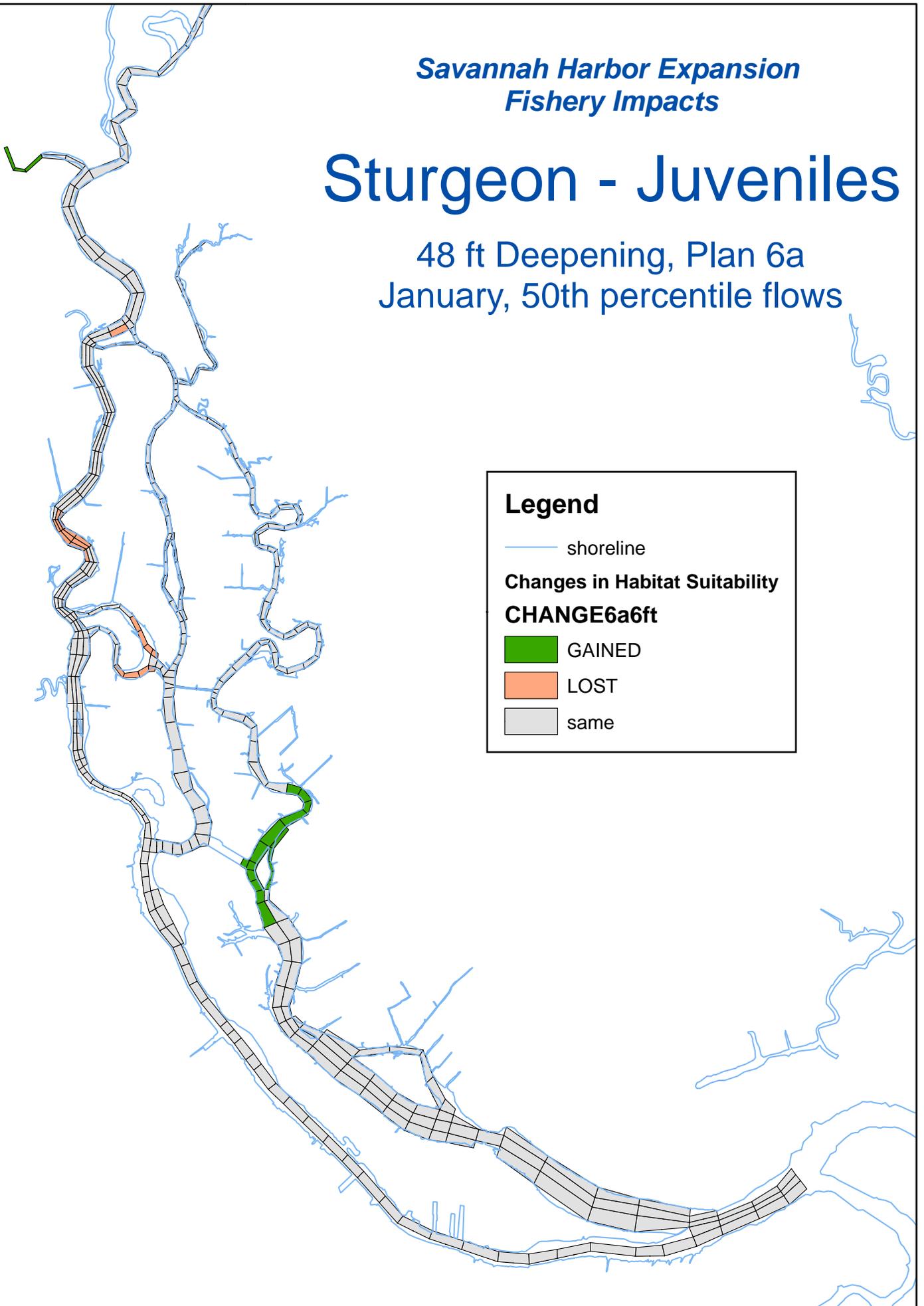
Changes in Habitat Suitability

CHANGE6a6ft

 GAINED

 LOST

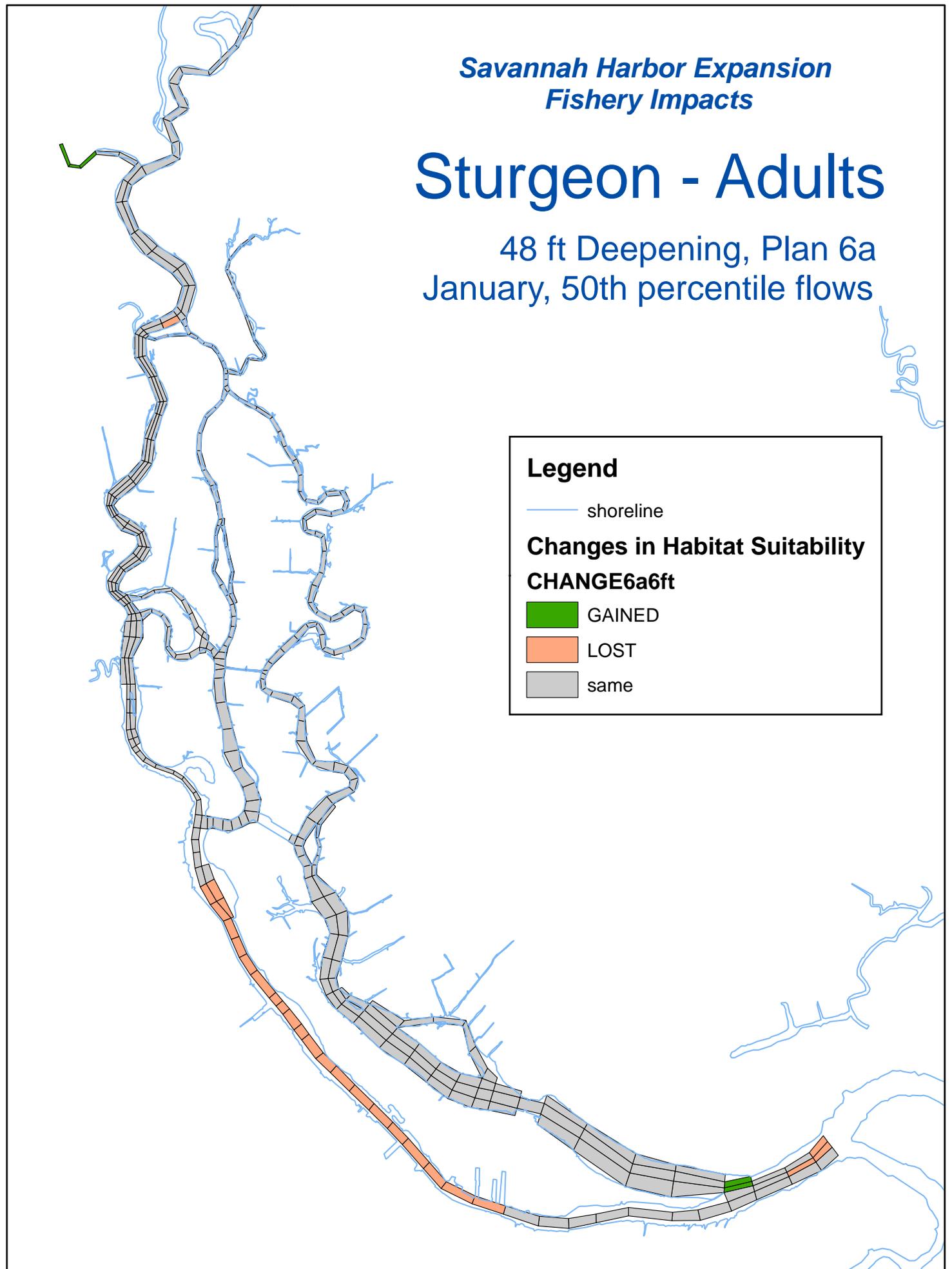
 same



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

48 ft Deepening, Plan 6a
January, 50th percentile flows



*Savannah Harbor Expansion
Fishery Impacts*

Sturgeon - Adults

48 ft Deepening, Plan 6a
August, 1997 (Average) Flows

Legend

— shoreline

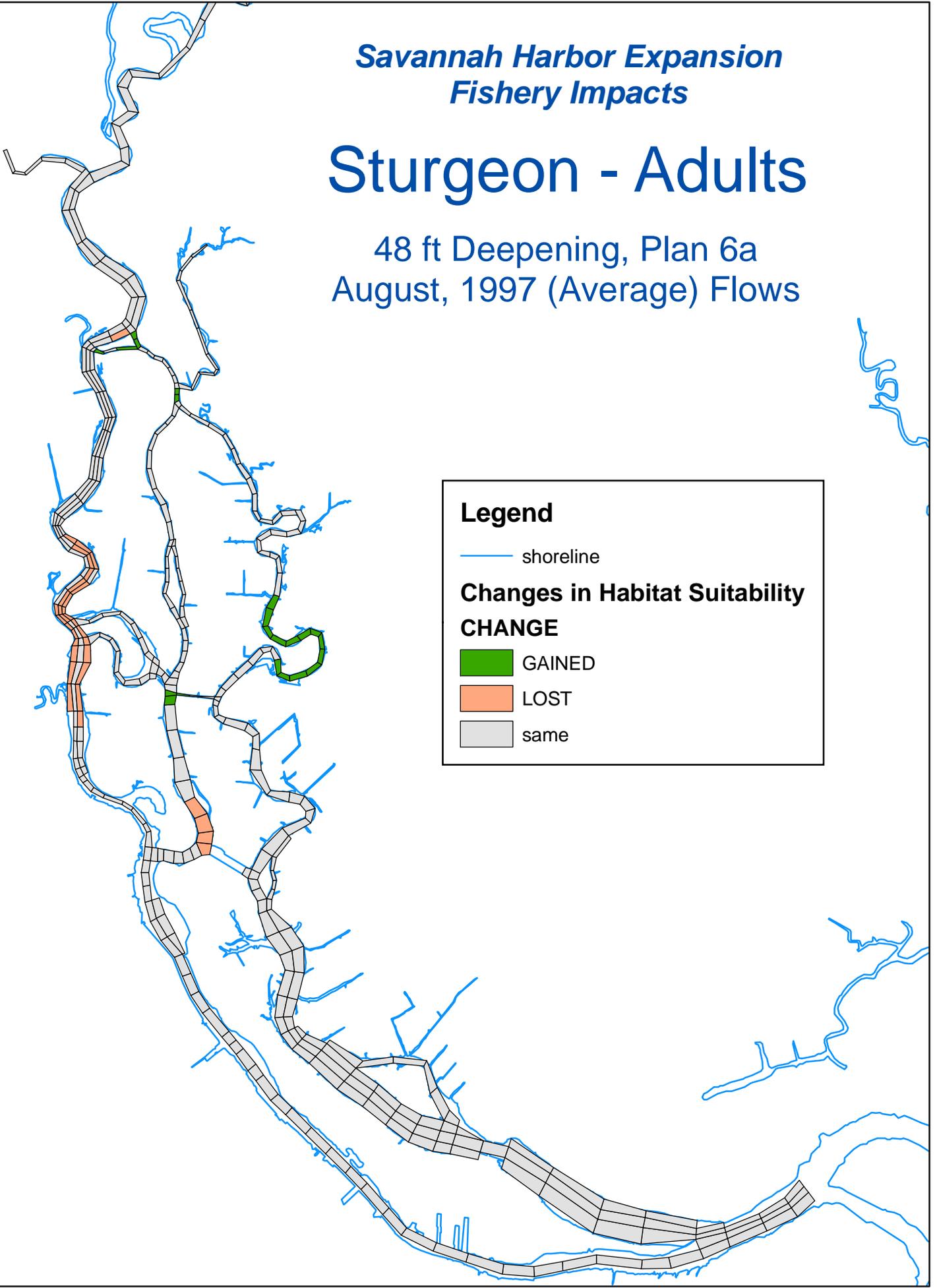
Changes in Habitat Suitability

CHANGE

■ GAINED

■ LOST

■ same



*Savannah Harbor Expansion
Fishery Impacts*

Southern Flounder

48 ft Deepening, Plan 6a
August, 1997 (Average) Flows

Legend

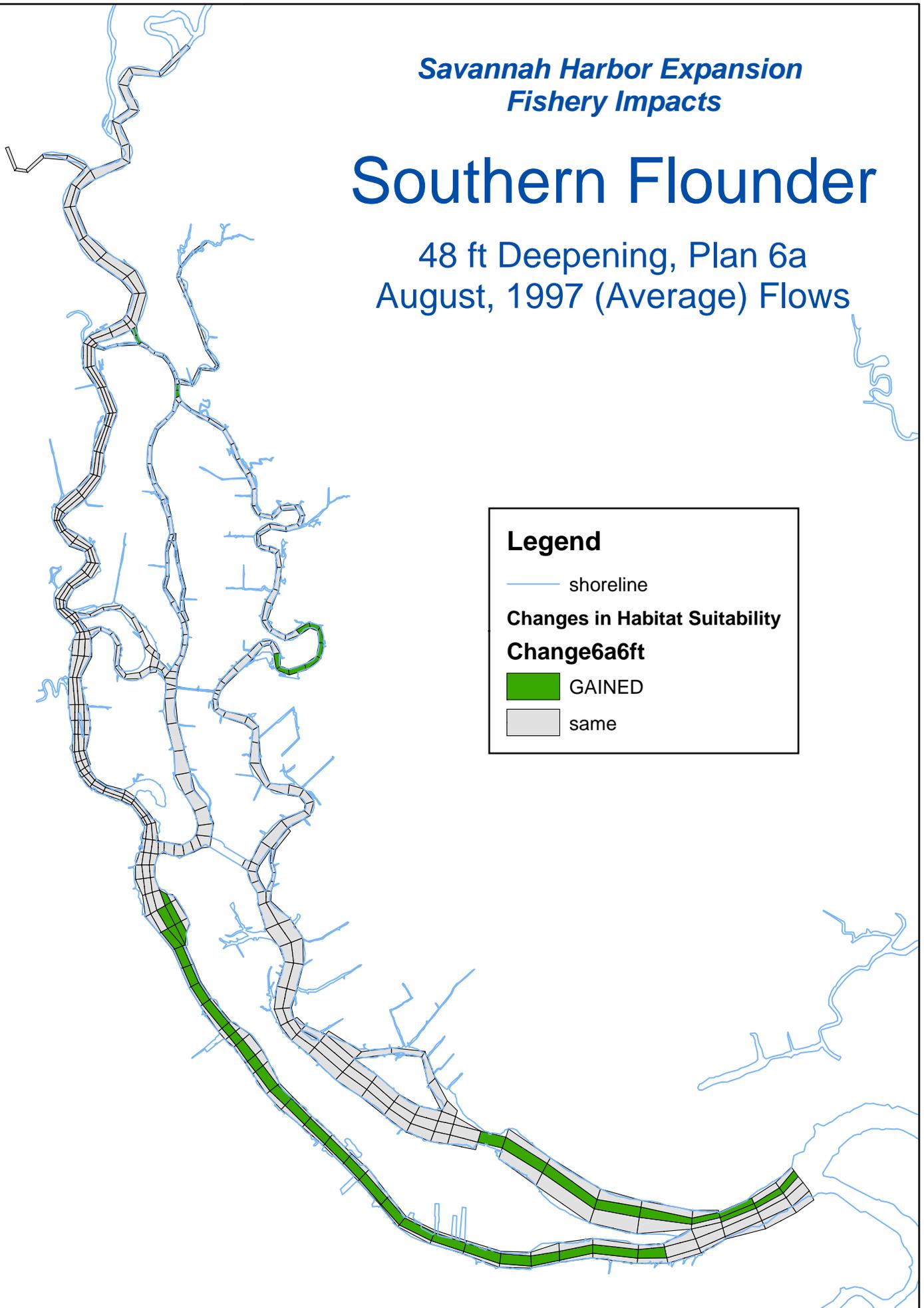
— shoreline

Changes in Habitat Suitability

Change6a6ft

 GAINED

 same

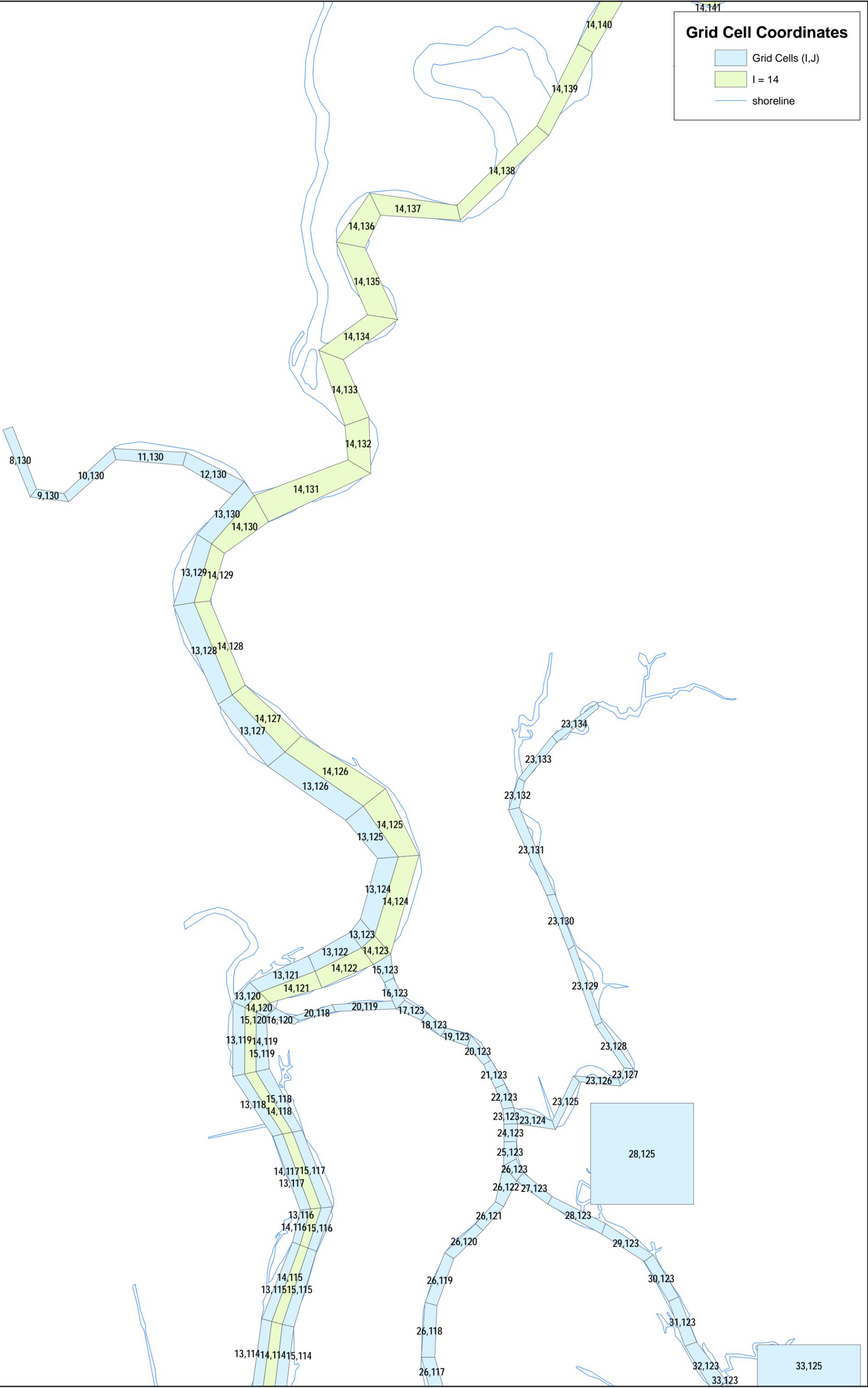


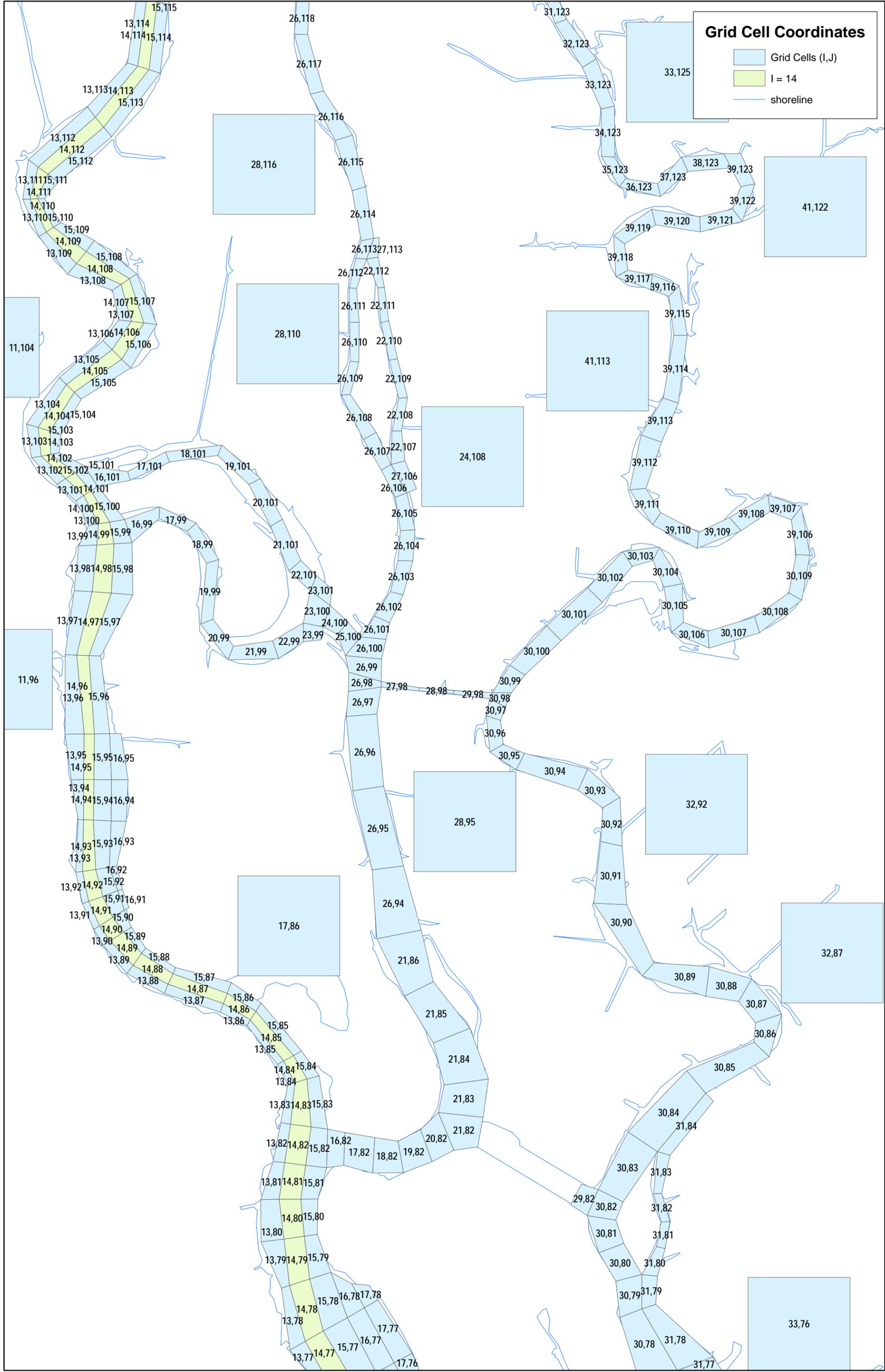
Appendix B

Habitat Suitability Tables

Grid Cell Coordinates

- Grid Cells (I,J)
- I = 14
- shoreline





Grid Cell Coordinates

- Grid Cells (I,J)
- I = 14
- shoreline

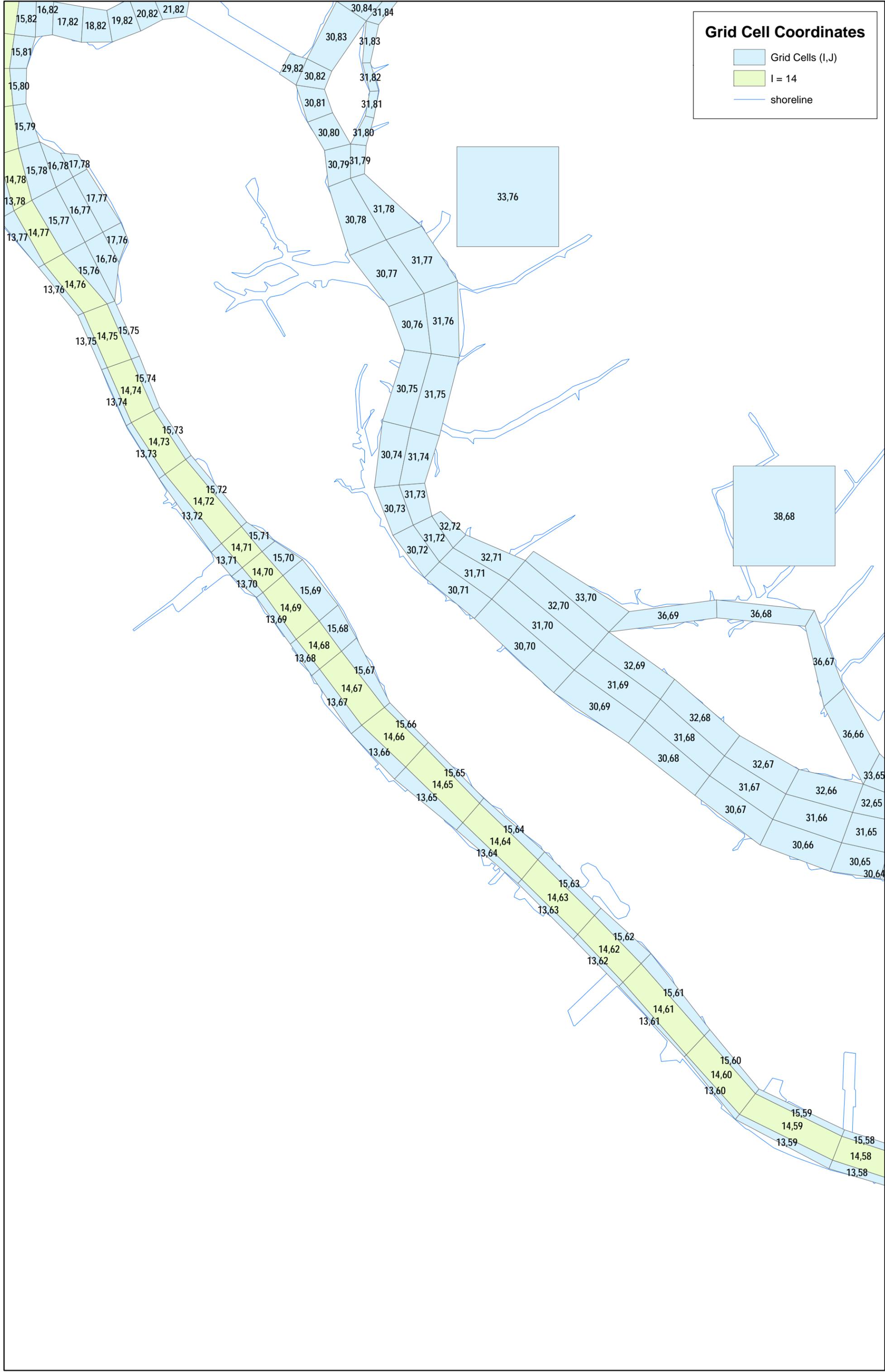
15,115
13,114
14,114
15,114
13,113
14,113
15,113
13,112
14,112
15,112
13,111
14,111
15,111
13,110
14,110
15,110
15,109
14,109
13,109
15,108
14,108
13,108
14,107
15,107
13,107
13,106
14,106
15,106
13,105
14,105
15,105
13,104
14,104
15,104
15,103
13,103
14,103
14,102
15,101
17,101
18,101
19,101
13,102
15,102
16,101
13,101
14,101
14,100
15,100
13,100
16,99
17,99
13,99
14,99
15,99
18,99
19,99
13,98
14,98
15,98
20,101
21,101
22,101
23,101
23,100
24,100
25,100
26,101
26,100
26,99
20,99
21,99
22,99
23,99
13,97
14,97
15,97
14,96
15,96
13,95
15,95
16,95
14,95
13,94
14,94
15,94
16,94
14,93
15,93
16,93
13,93
16,92
13,92
14,92
15,92
15,91
16,91
13,91
14,91
15,90
14,90
15,89
13,90
14,89
15,88
13,89
14,88
15,87
14,87
15,86
13,86
14,86
15,85
13,85
14,85
15,84
13,84
14,84
15,84
13,83
14,83
15,83
13,82
14,82
15,82
16,82
17,82
18,82
19,82
20,82
21,82
13,81
14,81
15,81
14,80
15,80
13,80
13,79
14,79
15,79
14,78
15,78
16,78
17,78
13,78
14,78
15,77
16,77
17,77
13,77
14,77
15,77
16,77
17,76

26,118
26,117
26,116
28,116
26,115
26,114
26,113
27,113
26,112
22,112
26,111
22,111
26,110
22,110
26,109
22,109
26,108
22,108
26,107
22,107
27,106
26,106
26,105
26,104
26,103
26,102
26,101
26,100
26,99
26,98
27,98
28,98
29,98
30,98
30,97
30,96
26,96
30,95
30,94
26,95
28,95
30,92
30,91
26,94
21,86
21,85
21,84
21,83
21,82

31,123
32,123
33,123
34,123
35,123
36,123
37,123
38,123
39,123
39,122
41,122
39,119
39,120
39,121
39,118
39,117
39,116
39,115
39,114
39,113
39,112
39,111
39,110
39,109
39,108
39,107
39,106
30,103
30,102
30,104
30,105
30,108
30,109
30,101
30,100
30,106
30,107
30,108
30,109
30,99
30,98
30,97
30,96
30,95
30,94
30,93
32,92
30,92
30,91
30,90
30,89
30,88
30,87
32,87
30,86
30,85
30,84
31,84
29,82
30,83
31,83
30,82
31,82
30,81
31,81
30,80
31,80
30,79
31,79
30,78
31,78
33,76
31,77

Grid Cell Coordinates

- Grid Cells (I,J)
- I = 14
- shoreline

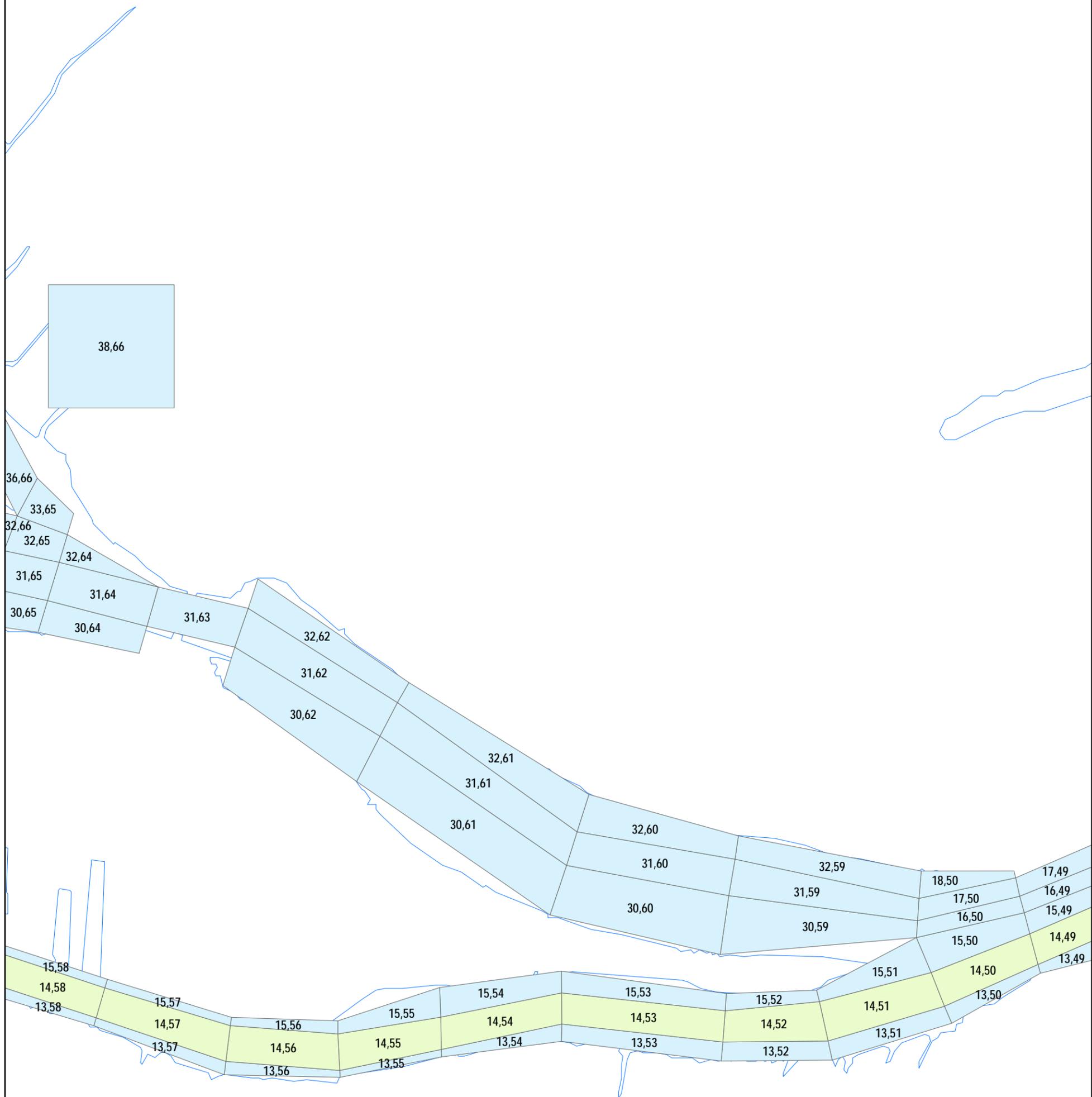


Grid Cell Coordinates

Grid Cells (I,J)

I = 14

shoreline



American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
13 47	Pass	Pass	same								
14 47	Pass	Pass	same								
15 47	Pass	Pass	same								
16 47	Pass	Pass	same								
17 47	Pass	Pass	same								
13 48	Pass	Pass	same								
14 48	Pass	Pass	same								
15 48	Pass	Pass	same								
16 48	Pass	Pass	same								
17 48	Pass	Pass	same								
13 49	Pass	Pass	same								
14 49	Pass	Pass	same								
15 49	Pass	Pass	same								
16 49	Pass	Pass	same								
17 49	Pass	Pass	same								
13 50	Pass	Pass	same								
14 50	Pass	Pass	same								
15 50	Pass	Pass	same								
16 50	Pass	Pass	same								
17 50	Pass	Pass	same								
18 50	Pass	Pass	same								
13 51	Pass	Pass	same								
14 51	Pass	Pass	same								
15 51	Pass	Pass	same								
13 52	Pass	Pass	same								
14 52	Pass	Pass	same								
15 52	Pass	Pass	same								
13 53	Pass	Pass	same								
14 53	Pass	Pass	same								
15 53	Pass	Pass	same								
13 54	Pass	Pass	same								
14 54	Pass	Pass	same								
15 54	Pass	Pass	same								
13 55	Pass	Pass	same								
14 55	Pass	Pass	same								
15 55	Pass	Pass	same								
13 56	Pass	Pass	same								
14 56	Pass	Pass	same								
15 56	Pass	Pass	same								
13 57	Pass	Pass	same								
14 57	Pass	Pass	same								
15 57	Pass	Pass	same								
13 58	Pass	Pass	same								
14 58	Pass	Pass	same								

American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
15 58	Pass	Pass	same								
13 59	Pass	Pass	same								
14 59	Pass	Pass	same								
15 59	Pass	Pass	same								
30 59	Pass	Pass	same								
31 59	Pass	Pass	same								
32 59	Pass	Pass	same								
13 60	Pass	Pass	same								
14 60	Pass	Pass	same								
15 60	Pass	Pass	same								
30 60	Pass	Pass	same								
31 60	Pass	Pass	same								
32 60	Pass	Pass	same								
13 61	Pass	Pass	same								
14 61	Pass	Pass	same								
15 61	Pass	Pass	same								
30 61	Pass	Pass	same								
31 61	Pass	Pass	same								
32 61	Pass	Pass	same								
13 62	Pass	Pass	same								
14 62	Pass	Pass	same								
15 62	Pass	Pass	same								
30 62	Pass	Pass	same								
31 62	Pass	Pass	same								
32 62	Pass	Pass	same								
13 63	Pass	Pass	same								
14 63	Pass	Pass	same								
15 63	Pass	Pass	same								
30 63	Fail	Pass	FailtoPass	Pass	FailtoPass	Pass	FailtoPass	Pass	toPass	Pass	FailtoPass
31 63	Pass	Pass	same								
32 63	Fail	Pass	FailtoPass	Pass	FailtoPass	Pass	FailtoPass	Pass	toPass	Pass	FailtoPass
13 64	Pass	Pass	same								
14 64	Pass	Pass	same								
15 64	Pass	Pass	same								
30 64	Pass	Pass	same								
31 64	Pass	Pass	same								
32 64	Pass	Pass	same								
13 65	Pass	Pass	same								
14 65	Pass	Pass	same								
15 65	Pass	Pass	same								
30 65	Pass	Pass	same								
31 65	Pass	Pass	same								
32 65	Pass	Pass	same								
33 65	Pass	Pass	same								

American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
13 66	Pass	Pass	same								
14 66	Pass	Pass	same								
15 66	Pass	Pass	same								
30 66	Pass	Pass	same								
31 66	Pass	Pass	same								
32 66	Pass	Pass	same								
36 66	Pass	Pass	same								
13 67	Pass	Pass	same								
14 67	Pass	Pass	same								
15 67	Pass	Pass	same								
30 67	Pass	Pass	same								
31 67	Pass	Pass	same								
32 67	Pass	Pass	same								
36 67	Pass	Pass	same								
13 68	Pass	Pass	same								
14 68	Pass	Pass	same								
15 68	Pass	Pass	same								
30 68	Pass	Pass	same								
31 68	Pass	Pass	same								
32 68	Pass	Pass	same								
36 68	Pass	Pass	same								
13 69	Pass	Pass	same								
14 69	Pass	Pass	same								
15 69	Pass	Pass	same								
30 69	Pass	Pass	same								
31 69	Pass	Pass	same								
32 69	Pass	Pass	same								
36 69	Pass	Pass	same								
13 70	Pass	Pass	same								
14 70	Pass	Pass	same								
15 70	Pass	Pass	same								
30 70	Pass	Pass	same								
31 70	Pass	Pass	same								
32 70	Pass	Pass	same								
33 70	Pass	Pass	same								
13 71	Pass	Pass	same								
14 71	Pass	Pass	same								
15 71	Pass	Pass	same								
30 71	Pass	Pass	same								
31 71	Pass	Pass	same								
32 71	Pass	Pass	same								
13 72	Pass	Pass	same								
14 72	Pass	Pass	same								
15 72	Pass	Pass	same								

American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
30 72	Pass	Pass	same								
31 72	Pass	Pass	same								
32 72	Pass	Pass	same								
13 73	Pass	Pass	same								
14 73	Pass	Pass	same								
15 73	Pass	Pass	same								
30 73	Pass	Pass	same								
31 73	Pass	Pass	same								
13 74	Pass	Pass	same								
14 74	Pass	Pass	same								
15 74	Pass	Pass	same								
30 74	Pass	Pass	same								
31 74	Pass	Pass	same								
13 75	Pass	Pass	same								
14 75	Pass	Pass	same								
15 75	Pass	Pass	same								
30 75	Pass	Pass	same								
31 75	Pass	Pass	same								
13 76	Pass	Pass	same								
14 76	Pass	Pass	same								
15 76	Pass	Pass	same								
16 76	Pass	Pass	same								
17 76	Pass	Pass	same								
30 76	Pass	Pass	same								
31 76	Pass	Pass	same								
13 77	Pass	Pass	same								
14 77	Pass	Pass	same								
15 77	Pass	Pass	same								
16 77	Pass	Pass	same								
17 77	Pass	Pass	same								
30 77	Pass	Pass	same								
31 77	Pass	Pass	same								
13 78	Pass	Pass	same								
14 78	Pass	Pass	same								
15 78	Pass	Pass	same								
16 78	Pass	Pass	same								
17 78	Pass	Pass	same								
30 78	Pass	Pass	same								
31 78	Pass	Pass	same								
13 79	Pass	Pass	same								
14 79	Pass	Pass	same								
15 79	Pass	Pass	same								
30 79	Pass	Pass	same								
31 79	Pass	Pass	same								

American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
13 80	Pass	Pass	same								
14 80	Pass	Pass	same								
15 80	Pass	Pass	same								
30 80	Pass	Pass	same								
31 80	Pass	Pass	same								
13 81	Pass	Pass	same								
14 81	Pass	Pass	same								
15 81	Pass	Pass	same								
30 81	Pass	Pass	same								
31 81	Pass	Pass	same								
13 82	Pass	Pass	same								
14 82	Pass	Pass	same								
15 82	Pass	Pass	same								
16 82	Pass	Pass	same								
17 82	Pass	Pass	same								
18 82	Pass	Pass	same								
19 82	Pass	Pass	same								
20 82	Pass	Pass	same								
21 82	Pass	Pass	same								
29 82	Pass	Pass	same								
30 82	Pass	Pass	same								
31 82	Pass	Pass	same								
13 83	Pass	Pass	same								
14 83	Pass	Pass	same								
15 83	Pass	Pass	same								
21 83	Pass	Pass	same								
30 83	Pass	Pass	same								
31 83	Pass	Pass	same								
13 84	Pass	Pass	same								
14 84	Pass	Pass	same								
15 84	Pass	Pass	same								
21 84	Pass	Pass	same								
30 84	Pass	Pass	same								
31 84	Pass	Pass	same								
13 85	Pass	Pass	same								
14 85	Pass	Pass	same								
15 85	Pass	Pass	same								
21 85	Pass	Pass	same								
30 85	Pass	Pass	same								
13 86	Pass	Pass	same								
14 86	Pass	Pass	same								
15 86	Pass	Pass	same								
21 86	Pass	Pass	same								
30 86	Pass	Pass	same								

American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
13 87	Pass	Pass	same								
14 87	Pass	Pass	same								
15 87	Pass	Pass	same								
30 87	Pass	Pass	same								
13 88	Pass	Pass	same								
14 88	Pass	Pass	same								
15 88	Pass	Pass	same								
30 88	Pass	Pass	same								
13 89	Pass	Pass	same								
14 89	Pass	Pass	same								
15 89	Pass	Pass	same								
30 89	Pass	Pass	same								
13 90	Pass	Pass	same								
14 90	Pass	Pass	same								
15 90	Pass	Pass	same								
30 90	Pass	Pass	same								
13 91	Pass	Pass	same								
14 91	Pass	Pass	same								
15 91	Pass	Pass	same								
16 91	Pass	Pass	same								
30 91	Pass	Pass	same								
13 92	Pass	Pass	same								
14 92	Pass	Pass	same								
15 92	Pass	Pass	same								
16 92	Pass	Pass	same								
30 92	Pass	Pass	same								
13 93	Pass	Pass	same								
14 93	Pass	Pass	same								
15 93	Pass	Pass	same								
16 93	Pass	Pass	same								
30 93	Pass	Pass	same								
13 94	Pass	Pass	same								
14 94	Pass	Pass	same								
15 94	Pass	Pass	same								
16 94	Pass	Pass	same								
26 94	Pass	Pass	same								
30 94	Pass	Pass	same								
13 95	Pass	Pass	same								
14 95	Pass	Pass	same								
15 95	Pass	Pass	same								
16 95	Pass	Pass	same								
26 95	Pass	Pass	same								
30 95	Pass	Pass	same								
13 96	Pass	Pass	same								

American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
14 96	Pass	Pass	same								
15 96	Pass	Pass	same								
26 96	Pass	Pass	same								
30 96	Pass	Pass	same								
13 97	Pass	Pass	same								
14 97	Pass	Pass	same								
15 97	Pass	Pass	same								
26 97	Pass	Pass	same								
30 97	Pass	Pass	same								
13 98	Pass	Pass	same								
14 98	Pass	Pass	same								
15 98	Pass	Pass	same								
26 98	Pass	Pass	same								
27 98	Pass	Pass	same								
28 98	Pass	Fail	PasstoFail								
29 98	Pass	Pass	same								
30 98	Pass	Pass	same								
13 99	Pass	Pass	same								
14 99	Pass	Pass	same								
15 99	Pass	Pass	same								
16 99	Pass	Pass	same								
17 99	Pass	Pass	same								
18 99	Pass	Pass	same								
19 99	Pass	Pass	same								
20 99	Pass	Pass	same								
21 99	Pass	Pass	same								
22 99	Pass	Pass	same								
23 99	Pass	Pass	same								
26 99	Pass	Pass	same								
30 99	Pass	Pass	same								
13 100	Pass	Pass	same								
14 100	Pass	Pass	same								
15 100	Pass	Pass	same								
23 100	Pass	Pass	same								
24 100	Pass	Pass	same								
25 100	Pass	Pass	same								
26 100	Pass	Pass	same								
30 100	Pass	Pass	same								
13 101	Pass	Pass	same								
14 101	Pass	Pass	same								
15 101	Pass	Pass	same								
16 101	Pass	Pass	same								
17 101	Pass	Pass	same								
18 101	Pass	Pass	same								

American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
19 101	Pass	Pass	same								
20 101	Pass	Pass	same								
21 101	Pass	Pass	same								
22 101	Pass	Pass	same								
23 101	Pass	Pass	same								
26 101	Pass	Pass	same								
30 101	Pass	Pass	same								
13 102	Pass	Pass	same								
14 102	Pass	Pass	same								
15 102	Pass	Pass	same								
26 102	Pass	Pass	same								
30 102	Pass	Pass	same								
13 103	Pass	Pass	same								
14 103	Pass	Pass	same								
15 103	Pass	Pass	same								
26 103	Pass	Pass	same								
30 103	Pass	Pass	same								
13 104	Pass	Pass	same								
14 104	Pass	Pass	same								
15 104	Pass	Pass	same								
26 104	Pass	Pass	same								
30 104	Pass	Pass	same								
13 105	Pass	Pass	same								
14 105	Pass	Pass	same								
15 105	Pass	Pass	same								
26 105	Pass	Pass	same								
30 105	Pass	Pass	same								
13 106	Pass	Pass	same								
14 106	Pass	Pass	same								
15 106	Pass	Pass	same								
26 106	Pass	Pass	same								
27 106	Pass	Pass	same								
30 106	Pass	Pass	same								
39 106	Pass	Pass	same								
13 107	Pass	Pass	same								
14 107	Pass	Pass	same								
15 107	Pass	Pass	same								
22 107	Pass	Pass	same								
26 107	Pass	Pass	same								
30 107	Pass	Pass	same								
39 107	Pass	Pass	same								
13 108	Pass	Pass	same								
14 108	Pass	Pass	same								
15 108	Pass	Pass	same								

American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
22 108	Pass	Pass	same								
26 108	Pass	Pass	same								
30 108	Pass	Pass	same								
39 108	Pass	Pass	same								
13 109	Pass	Pass	same								
14 109	Pass	Pass	same								
15 109	Pass	Pass	same								
22 109	Pass	Pass	same								
26 109	Pass	Pass	same								
30 109	Pass	Pass	same								
39 109	Pass	Pass	same								
13 110	Pass	Pass	same								
14 110	Pass	Pass	same								
15 110	Pass	Pass	same								
22 110	Pass	Pass	same								
26 110	Pass	Pass	same								
39 110	Pass	Pass	same								
13 111	Pass	Pass	same								
14 111	Pass	Pass	same								
15 111	Pass	Pass	same								
22 111	Pass	Pass	same								
26 111	Pass	Pass	same								
39 111	Pass	Pass	same								
13 112	Pass	Pass	same								
14 112	Pass	Pass	same								
15 112	Pass	Pass	same								
22 112	Pass	Pass	same								
26 112	Pass	Pass	same								
39 112	Pass	Pass	same								
13 113	Pass	Pass	same								
14 113	Pass	Pass	same								
15 113	Pass	Pass	same								
26 113	Pass	Pass	same								
27 113	Pass	Pass	same								
39 113	Pass	Pass	same								
13 114	Pass	Pass	same								
14 114	Pass	Pass	same								
15 114	Pass	Pass	same								
26 114	Pass	Pass	same								
39 114	Pass	Pass	same								
13 115	Pass	Pass	same								
14 115	Pass	Pass	same								
15 115	Pass	Pass	same								
26 115	Pass	Pass	same								

American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
39 115	Pass	Pass	same								
13 116	Pass	Pass	same								
14 116	Pass	Pass	same								
15 116	Pass	Pass	same								
26 116	Pass	Pass	same								
39 116	Pass	Pass	same								
13 117	Pass	Pass	same								
14 117	Pass	Pass	same								
15 117	Pass	Pass	same								
26 117	Pass	Pass	same								
39 117	Pass	Pass	same								
13 118	Pass	Pass	same								
14 118	Pass	Pass	same								
15 118	Pass	Pass	same								
20 118	Pass	Pass	same	Fail	PasstoFail	Fail	PasstoFail	Fail	PasstoFail	Fail	PasstoFail
26 118	Pass	Pass	same								
39 118	Pass	Pass	same								
13 119	Pass	Pass	same								
14 119	Pass	Pass	same								
15 119	Pass	Pass	same								
20 119	Pass	Pass	same								
26 119	Pass	Pass	same								
39 119	Pass	Pass	same								
13 120	Pass	Pass	same								
14 120	Pass	Pass	same								
15 120	Pass	Pass	same								
16 120	Pass	Fail	PasstoFail	Pass	same	Pass	same	Pass	same	Pass	same
26 120	Pass	Pass	same								
39 120	Pass	Pass	same								
13 121	Pass	Pass	same								
14 121	Pass	Pass	same								
26 121	Pass	Pass	same								
39 121	Pass	Pass	same								
13 122	Pass	Pass	same								
14 122	Pass	Fail	PasstoFail								
26 122	Pass	Pass	same								
39 122	Pass	Pass	same								
13 123	Pass	Pass	same								
14 123	Pass	Pass	same								
15 123	Pass	Pass	same								
16 123	Pass	Pass	same								
17 123	Pass	Pass	same								
18 123	Pass	Pass	same								
19 123	Pass	Pass	same								

American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
20 123	Pass	Pass	same								
21 123	Pass	Pass	same								
22 123	Pass	Pass	same								
23 123	Pass	Pass	same								
24 123	Pass	Pass	same								
25 123	Pass	Pass	same								
26 123	Pass	Pass	same								
27 123	Pass	Pass	same								
28 123	Pass	Pass	same								
29 123	Pass	Pass	same								
30 123	Pass	Pass	same								
31 123	Pass	Pass	same								
32 123	Pass	Pass	same								
33 123	Pass	Pass	same								
34 123	Pass	Pass	same								
35 123	Pass	Pass	same								
36 123	Pass	Pass	same								
37 123	Pass	Pass	same								
38 123	Pass	Pass	same								
39 123	Pass	Pass	same								
13 124	Pass	Pass	same								
14 124	Pass	Pass	same								
23 124	Pass	Pass	same								
13 125	Pass	Pass	same								
14 125	Pass	Pass	same								
23 125	Pass	Pass	same								
13 126	Pass	Pass	same								
14 126	Pass	Pass	same								
23 126	Pass	Pass	same								
13 127	Pass	Pass	same								
14 127	Pass	Pass	same								
23 127	Pass	Pass	same								
13 128	Pass	Pass	same								
14 128	Pass	Pass	same								
23 128	Pass	Pass	same								
13 129	Pass	Pass	same								
14 129	Pass	Pass	same								
23 129	Pass	Pass	same								
8 130	Pass	Pass	same								
9 130	Pass	Pass	same								
10 130	Pass	Pass	same								
11 130	Pass	Pass	same								
12 130	Pass	Pass	same								
13 130	Pass	Pass	same								

American Shad

20th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex20	DO6b2ft20	CHANGE6b2ft20	DO6a3ft20	CHANGE6a3ft20	DO6a4ft20	CHANGE6a4ft20	DO6a5ft20	CHANGE6a5ft20	DO6a6ft20	CHANGE6a6ft20
14 130	Pass	Pass	same								
23 130	Pass	Pass	same								
14 131	Pass	Pass	same								
23 131	Pass	Pass	same								
14 132	Pass	Pass	same								
23 132	Pass	Pass	same								
14 133	Pass	Pass	same								
23 133	Pass	Pass	same								
14 134	Pass	Pass	same								
23 134	Pass	Pass	same								
14 135	Pass	Pass	same								
14 136	Pass	Pass	same								
14 137	Pass	Pass	same								
14 138	Pass	Pass	same								
14 139	Pass	Pass	same								
14 140	Pass	Pass	same								
14 141	Pass	Pass	same								
14 142	Pass	Pass	same								
14 143	Pass	Pass	same								
14 144	Pass	Pass	same								
14 145	Pass	Pass	same								
14 146	Pass	Pass	same								
14 147	Pass	Pass	same								
14 148	Pass	Pass	same								
14 149	Pass	Pass	same								
14 150	Pass	Pass	same								
14 151	Pass	Pass	same								
14 152	Pass	Pass	same								
14 153	Pass	Pass	same								
14 154	Pass	Pass	same								
14 155	Pass	Pass	same								
14 156	Pass	Pass	same								
14 157	Pass	Pass	same								
14 158	Pass	Pass	same								
14 159	Pass	Pass	same								
14 160	Pass	Pass	same								
14 161	Pass	Pass	same								
14 162	Pass	Pass	same								
14 163	Pass	Pass	same								
14 164	Pass	Pass	same								
14 165	Pass	Pass	same								
14 166	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
13 47	Pass	Pass	same								
14 47	Pass	Pass	same								
15 47	Pass	Pass	same								
16 47	Pass	Pass	same								
17 47	Pass	Pass	same								
13 48	Pass	Pass	same								
14 48	Pass	Pass	same								
15 48	Pass	Pass	same								
16 48	Pass	Pass	same								
17 48	Pass	Pass	same								
13 49	Pass	Pass	same								
14 49	Pass	Pass	same								
15 49	Pass	Pass	same								
16 49	Pass	Pass	same								
17 49	Pass	Pass	same								
13 50	Pass	Pass	same								
14 50	Pass	Pass	same								
15 50	Pass	Pass	same								
16 50	Pass	Pass	same								
17 50	Pass	Pass	same								
18 50	Pass	Pass	same								
13 51	Pass	Pass	same								
14 51	Pass	Pass	same								
15 51	Pass	Pass	same								
13 52	Pass	Pass	same								
14 52	Pass	Pass	same								
15 52	Pass	Pass	same								
13 53	Pass	Pass	same								
14 53	Pass	Pass	same								
15 53	Pass	Pass	same								
13 54	Pass	Pass	same								
14 54	Pass	Pass	same								
15 54	Pass	Pass	same								
13 55	Pass	Pass	same								
14 55	Pass	Pass	same								
15 55	Pass	Pass	same								
13 56	Pass	Pass	same								
14 56	Pass	Pass	same								
15 56	Pass	Pass	same								
13 57	Pass	Pass	same								
14 57	Pass	Pass	same								
15 57	Pass	Pass	same								
13 58	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
14 58	Pass	Pass	same								
15 58	Pass	Pass	same								
13 59	Pass	Pass	same								
14 59	Pass	Pass	same								
15 59	Pass	Pass	same								
30 59	Pass	Pass	same								
31 59	Pass	Pass	same								
32 59	Pass	Pass	same								
13 60	Pass	Pass	same								
14 60	Pass	Pass	same								
15 60	Pass	Pass	same								
30 60	Pass	Pass	same								
31 60	Pass	Pass	same								
32 60	Pass	Pass	same								
13 61	Pass	Pass	same								
14 61	Pass	Pass	same								
15 61	Pass	Pass	same								
30 61	Pass	Pass	same								
31 61	Pass	Pass	same								
32 61	Pass	Pass	same								
13 62	Pass	Pass	same								
14 62	Pass	Pass	same								
15 62	Pass	Pass	same								
30 62	Pass	Pass	same								
31 62	Pass	Pass	same								
32 62	Pass	Pass	same								
13 63	Pass	Pass	same								
14 63	Pass	Pass	same								
15 63	Pass	Pass	same								
30 63	Fail	Pass	FailtoPass	Pass	FailtoPass	Pass	FailtoPass	Pass	toPass	Pass	FailtoPass
31 63	Pass	Pass	same								
32 63	Fail	Pass	FailtoPass	Pass	FailtoPass	Pass	FailtoPass	Pass	toPass	Pass	FailtoPass
13 64	Pass	Pass	same								
14 64	Pass	Pass	same								
15 64	Pass	Pass	same								
30 64	Pass	Pass	same								
31 64	Pass	Pass	same								
32 64	Pass	Pass	same								
13 65	Pass	Pass	same								
14 65	Pass	Pass	same								
15 65	Pass	Pass	same								
30 65	Pass	Pass	same								
31 65	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
32 65	Pass	Pass	same								
33 65	Pass	Pass	same								
13 66	Pass	Pass	same								
14 66	Pass	Pass	same								
15 66	Pass	Pass	same								
30 66	Pass	Pass	same								
31 66	Pass	Pass	same								
32 66	Pass	Pass	same								
36 66	Pass	Pass	same								
13 67	Pass	Pass	same								
14 67	Pass	Pass	same								
15 67	Pass	Pass	same								
30 67	Pass	Pass	same								
31 67	Pass	Pass	same								
32 67	Pass	Pass	same								
36 67	Pass	Pass	same								
13 68	Pass	Pass	same								
14 68	Pass	Pass	same								
15 68	Pass	Pass	same								
30 68	Pass	Pass	same								
31 68	Pass	Pass	same								
32 68	Pass	Pass	same								
36 68	Pass	Pass	same								
13 69	Pass	Pass	same								
14 69	Pass	Pass	same								
15 69	Pass	Pass	same								
30 69	Pass	Pass	same								
31 69	Pass	Pass	same								
32 69	Pass	Pass	same								
36 69	Pass	Pass	same								
13 70	Pass	Pass	same								
14 70	Pass	Pass	same								
15 70	Pass	Pass	same								
30 70	Pass	Pass	same								
31 70	Pass	Pass	same								
32 70	Pass	Pass	same								
33 70	Pass	Pass	same								
13 71	Pass	Pass	same								
14 71	Pass	Pass	same								
15 71	Pass	Pass	same								
30 71	Pass	Pass	same								
31 71	Pass	Pass	same								
32 71	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
13 72	Pass	Pass	same								
14 72	Pass	Pass	same								
15 72	Pass	Pass	same								
30 72	Pass	Pass	same								
31 72	Pass	Pass	same								
32 72	Pass	Pass	same								
13 73	Pass	Pass	same								
14 73	Pass	Pass	same								
15 73	Pass	Pass	same								
30 73	Pass	Pass	same								
31 73	Pass	Pass	same								
13 74	Pass	Pass	same								
14 74	Pass	Pass	same								
15 74	Pass	Pass	same								
30 74	Pass	Pass	same								
31 74	Pass	Pass	same								
13 75	Pass	Pass	same								
14 75	Pass	Pass	same								
15 75	Pass	Pass	same								
30 75	Pass	Pass	same								
31 75	Pass	Pass	same								
13 76	Pass	Pass	same								
14 76	Pass	Pass	same								
15 76	Pass	Pass	same								
16 76	Pass	Pass	same								
17 76	Pass	Pass	same								
30 76	Pass	Pass	same								
31 76	Pass	Pass	same								
13 77	Pass	Pass	same								
14 77	Pass	Pass	same								
15 77	Pass	Pass	same								
16 77	Pass	Pass	same								
17 77	Pass	Pass	same								
30 77	Pass	Pass	same								
31 77	Pass	Pass	same								
13 78	Pass	Pass	same								
14 78	Pass	Pass	same								
15 78	Pass	Pass	same								
16 78	Pass	Pass	same								
17 78	Pass	Pass	same								
30 78	Pass	Pass	same								
31 78	Pass	Pass	same								
13 79	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
14 79	Pass	Pass	same								
15 79	Pass	Pass	same								
30 79	Pass	Pass	same								
31 79	Pass	Pass	same								
13 80	Pass	Pass	same								
14 80	Pass	Pass	same								
15 80	Pass	Pass	same								
30 80	Pass	Pass	same								
31 80	Pass	Pass	same								
13 81	Pass	Pass	same								
14 81	Pass	Pass	same								
15 81	Pass	Pass	same								
30 81	Pass	Pass	same								
31 81	Pass	Pass	same								
13 82	Pass	Pass	same								
14 82	Pass	Pass	same								
15 82	Pass	Pass	same								
16 82	Pass	Pass	same								
17 82	Pass	Pass	same								
18 82	Pass	Pass	same								
19 82	Pass	Pass	same								
20 82	Pass	Pass	same								
21 82	Pass	Pass	same								
29 82	Pass	Pass	same								
30 82	Pass	Pass	same								
31 82	Pass	Pass	same								
13 83	Pass	Pass	same								
14 83	Pass	Pass	same								
15 83	Pass	Pass	same								
21 83	Pass	Pass	same								
30 83	Pass	Pass	same								
31 83	Pass	Pass	same								
13 84	Pass	Pass	same								
14 84	Pass	Pass	same								
15 84	Pass	Pass	same								
21 84	Pass	Pass	same								
30 84	Pass	Pass	same								
31 84	Pass	Pass	same								
13 85	Pass	Pass	same								
14 85	Pass	Pass	same								
15 85	Pass	Pass	same								
21 85	Pass	Pass	same								
30 85	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
13 86	Pass	Pass	same								
14 86	Pass	Pass	same								
15 86	Pass	Pass	same								
21 86	Pass	Pass	same								
30 86	Pass	Pass	same								
13 87	Pass	Pass	same								
14 87	Pass	Pass	same								
15 87	Pass	Pass	same								
30 87	Pass	Pass	same								
13 88	Pass	Pass	same								
14 88	Pass	Pass	same								
15 88	Pass	Pass	same								
30 88	Pass	Pass	same								
13 89	Pass	Pass	same								
14 89	Pass	Pass	same								
15 89	Pass	Pass	same								
30 89	Pass	Pass	same								
13 90	Pass	Pass	same								
14 90	Pass	Pass	same								
15 90	Pass	Pass	same								
30 90	Pass	Pass	same								
13 91	Pass	Pass	same								
14 91	Pass	Pass	same								
15 91	Pass	Pass	same								
16 91	Pass	Pass	same								
30 91	Pass	Pass	same								
13 92	Pass	Pass	same								
14 92	Pass	Pass	same								
15 92	Pass	Pass	same								
16 92	Pass	Pass	same								
30 92	Pass	Pass	same								
13 93	Pass	Pass	same								
14 93	Pass	Pass	same								
15 93	Pass	Pass	same								
16 93	Pass	Pass	same								
30 93	Pass	Pass	same								
13 94	Pass	Pass	same								
14 94	Pass	Pass	same								
15 94	Pass	Pass	same								
16 94	Pass	Pass	same								
26 94	Pass	Pass	same								
30 94	Pass	Pass	same								
13 95	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
14 95	Pass	Pass	same								
15 95	Pass	Pass	same								
16 95	Pass	Pass	same								
26 95	Pass	Pass	same								
30 95	Pass	Pass	same								
13 96	Pass	Pass	same								
14 96	Pass	Pass	same								
15 96	Pass	Pass	same								
26 96	Pass	Pass	same								
30 96	Pass	Pass	same								
13 97	Pass	Pass	same								
14 97	Pass	Pass	same								
15 97	Pass	Pass	same								
26 97	Pass	Pass	same								
30 97	Pass	Pass	same								
13 98	Pass	Pass	same								
14 98	Pass	Pass	same								
15 98	Pass	Pass	same								
26 98	Pass	Pass	same								
27 98	Pass	Pass	same								
28 98	Pass	Fail	PasstoFail								
29 98	Pass	Pass	same								
30 98	Pass	Pass	same								
13 99	Pass	Pass	same								
14 99	Pass	Pass	same								
15 99	Pass	Pass	same								
16 99	Pass	Pass	same								
17 99	Pass	Pass	same								
18 99	Pass	Pass	same								
19 99	Pass	Pass	same								
20 99	Pass	Pass	same								
21 99	Pass	Pass	same								
22 99	Pass	Pass	same								
23 99	Pass	Pass	same								
26 99	Pass	Pass	same								
30 99	Pass	Pass	same								
13 100	Pass	Pass	same								
14 100	Pass	Pass	same								
15 100	Pass	Pass	same								
23 100	Pass	Pass	same								
24 100	Pass	Pass	same								
25 100	Pass	Pass	same								
26 100	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
30 100	Pass	Pass	same								
13 101	Pass	Pass	same								
14 101	Pass	Pass	same								
15 101	Pass	Pass	same								
16 101	Pass	Pass	same								
17 101	Pass	Pass	same								
18 101	Pass	Pass	same								
19 101	Pass	Pass	same								
20 101	Pass	Pass	same								
21 101	Pass	Pass	same								
22 101	Pass	Pass	same								
23 101	Pass	Pass	same								
26 101	Pass	Pass	same								
30 101	Pass	Pass	same								
13 102	Pass	Pass	same								
14 102	Pass	Pass	same								
15 102	Pass	Pass	same								
26 102	Pass	Pass	same								
30 102	Pass	Pass	same								
13 103	Pass	Pass	same								
14 103	Pass	Pass	same								
15 103	Pass	Pass	same								
26 103	Pass	Pass	same								
30 103	Pass	Pass	same								
13 104	Pass	Pass	same								
14 104	Pass	Pass	same								
15 104	Pass	Pass	same								
26 104	Pass	Pass	same								
30 104	Pass	Pass	same								
13 105	Pass	Pass	same								
14 105	Pass	Pass	same								
15 105	Pass	Pass	same								
26 105	Pass	Pass	same								
30 105	Pass	Pass	same								
13 106	Pass	Pass	same								
14 106	Pass	Pass	same								
15 106	Pass	Pass	same								
26 106	Pass	Pass	same								
27 106	Pass	Pass	same								
30 106	Pass	Pass	same								
39 106	Pass	Pass	same								
13 107	Pass	Pass	same								
14 107	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
15 107	Pass	Pass	same								
22 107	Pass	Pass	same								
26 107	Pass	Pass	same								
30 107	Pass	Pass	same								
39 107	Pass	Pass	same								
13 108	Pass	Pass	same								
14 108	Pass	Pass	same								
15 108	Pass	Pass	same								
22 108	Pass	Pass	same								
26 108	Pass	Pass	same								
30 108	Pass	Pass	same								
39 108	Pass	Pass	same								
13 109	Pass	Pass	same								
14 109	Pass	Pass	same								
15 109	Pass	Pass	same								
22 109	Pass	Pass	same								
26 109	Pass	Pass	same								
30 109	Pass	Pass	same								
39 109	Pass	Pass	same								
13 110	Pass	Pass	same								
14 110	Pass	Pass	same								
15 110	Pass	Pass	same								
22 110	Pass	Pass	same								
26 110	Pass	Pass	same								
39 110	Pass	Pass	same								
13 111	Pass	Pass	same								
14 111	Pass	Pass	same								
15 111	Pass	Pass	same								
22 111	Pass	Pass	same								
26 111	Pass	Pass	same								
39 111	Pass	Pass	same								
13 112	Pass	Pass	same								
14 112	Pass	Pass	same								
15 112	Pass	Pass	same								
22 112	Pass	Pass	same								
26 112	Pass	Pass	same								
39 112	Pass	Pass	same								
13 113	Pass	Pass	same								
14 113	Pass	Pass	same								
15 113	Pass	Pass	same								
26 113	Pass	Pass	same								
27 113	Pass	Pass	same								
39 113	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
13 114	Pass	Pass	same								
14 114	Pass	Pass	same								
15 114	Pass	Pass	same								
26 114	Pass	Pass	same								
39 114	Pass	Pass	same								
13 115	Pass	Pass	same								
14 115	Pass	Pass	same								
15 115	Pass	Pass	same								
26 115	Pass	Pass	same								
39 115	Pass	Pass	same								
13 116	Pass	Pass	same								
14 116	Pass	Pass	same								
15 116	Pass	Pass	same								
26 116	Pass	Pass	same								
39 116	Pass	Pass	same								
13 117	Pass	Pass	same								
14 117	Pass	Pass	same								
15 117	Pass	Pass	same								
26 117	Pass	Pass	same								
39 117	Pass	Pass	same								
13 118	Pass	Pass	same								
14 118	Pass	Pass	same								
15 118	Pass	Pass	same								
20 118	Pass	Pass	same	Fail	PasstoFail	Fail	PasstoFail	Fail	PasstoFail	Fail	PasstoFail
26 118	Pass	Pass	same								
39 118	Pass	Pass	same								
13 119	Pass	Pass	same								
14 119	Pass	Pass	same								
15 119	Pass	Pass	same								
20 119	Pass	Pass	same								
26 119	Pass	Pass	same								
39 119	Pass	Pass	same								
13 120	Pass	Pass	same								
14 120	Pass	Pass	same								
15 120	Pass	Pass	same								
16 120	Pass	Fail	PasstoFail	Pass	same	Pass	same	Pass	same	Pass	same
26 120	Pass	Pass	same								
39 120	Pass	Pass	same								
13 121	Pass	Pass	same								
14 121	Pass	Pass	same								
26 121	Pass	Pass	same								
39 121	Pass	Pass	same								
13 122	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
14 122	Pass	Fail	PasstoFail								
26 122	Pass	Pass	same								
39 122	Pass	Pass	same								
13 123	Pass	Pass	same								
14 123	Pass	Pass	same								
15 123	Pass	Pass	same								
16 123	Pass	Pass	same								
17 123	Pass	Pass	same								
18 123	Pass	Pass	same								
19 123	Pass	Pass	same								
20 123	Pass	Pass	same								
21 123	Pass	Pass	same								
22 123	Pass	Pass	same								
23 123	Pass	Pass	same								
24 123	Pass	Pass	same								
25 123	Pass	Pass	same								
26 123	Pass	Pass	same								
27 123	Pass	Pass	same								
28 123	Pass	Pass	same								
29 123	Pass	Pass	same								
30 123	Pass	Pass	same								
31 123	Pass	Pass	same								
32 123	Pass	Pass	same								
33 123	Pass	Pass	same								
34 123	Pass	Pass	same								
35 123	Pass	Pass	same								
36 123	Pass	Pass	same								
37 123	Pass	Pass	same								
38 123	Pass	Pass	same								
39 123	Pass	Pass	same								
13 124	Pass	Pass	same								
14 124	Pass	Pass	same								
23 124	Pass	Pass	same								
13 125	Pass	Pass	same								
14 125	Pass	Pass	same								
23 125	Pass	Pass	same								
13 126	Pass	Pass	same								
14 126	Pass	Pass	same								
23 126	Pass	Pass	same								
13 127	Pass	Pass	same								
14 127	Pass	Pass	same								
23 127	Pass	Pass	same								
13 128	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
14 128	Pass	Pass	same								
23 128	Pass	Pass	same								
13 129	Pass	Pass	same								
14 129	Pass	Pass	same								
23 129	Pass	Pass	same								
8 130	Pass	Pass	same								
9 130	Pass	Pass	same								
10 130	Pass	Pass	same								
11 130	Pass	Pass	same								
12 130	Pass	Pass	same								
13 130	Pass	Pass	same								
14 130	Pass	Pass	same								
23 130	Pass	Pass	same								
14 131	Pass	Pass	same								
23 131	Pass	Pass	same								
14 132	Pass	Pass	same								
23 132	Pass	Pass	same								
14 133	Pass	Pass	same								
23 133	Pass	Pass	same								
14 134	Pass	Pass	same								
23 134	Pass	Pass	same								
14 135	Pass	Pass	same								
14 136	Pass	Pass	same								
14 137	Pass	Pass	same								
14 138	Pass	Pass	same								
14 139	Pass	Pass	same								
14 140	Pass	Pass	same								
14 141	Pass	Pass	same								
14 142	Pass	Pass	same								
14 143	Pass	Pass	same								
14 144	Pass	Pass	same								
14 145	Pass	Pass	same								
14 146	Pass	Pass	same								
14 147	Pass	Pass	same								
14 148	Pass	Pass	same								
14 149	Pass	Pass	same								
14 150	Pass	Pass	same								
14 151	Pass	Pass	same								
14 152	Pass	Pass	same								
14 153	Pass	Pass	same								
14 154	Pass	Pass	same								
14 155	Pass	Pass	same								
14 156	Pass	Pass	same								

American Shad

50th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
I_J	DOex50	DO6b2ft50	CHANGE6b2ft50	DO6a3ft50	CHANGE6a3ft50	DO6a4ft50	CHANGE6a4ft50	DO6a5ft50	CHANGE6a5ft50	DO6a6ft50	CHANGE6a6ft50
14 157	Pass	Pass	same								
14 158	Pass	Pass	same								
14 159	Pass	Pass	same								
14 160	Pass	Pass	same								
14 161	Pass	Pass	same								
14 162	Pass	Pass	same								
14 163	Pass	Pass	same								
14 164	Pass	Pass	same								
14 165	Pass	Pass	same								
14 166	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
13 47	Pass	Pass	same								
14 47	Pass	Pass	same								
15 47	Pass	Pass	same								
16 47	Pass	Pass	same								
17 47	Pass	Pass	same								
13 48	Pass	Pass	same								
14 48	Pass	Pass	same								
15 48	Pass	Pass	same								
16 48	Pass	Pass	same								
17 48	Pass	Pass	same								
13 49	Pass	Pass	same								
14 49	Pass	Pass	same								
15 49	Pass	Pass	same								
16 49	Pass	Pass	same								
17 49	Pass	Pass	same								
13 50	Pass	Pass	same								
14 50	Pass	Pass	same								
15 50	Pass	Pass	same								
16 50	Pass	Pass	same								
17 50	Pass	Pass	same								
18 50	Pass	Pass	same								
13 51	Pass	Pass	same								
14 51	Pass	Pass	same								
15 51	Pass	Pass	same								
13 52	Pass	Pass	same								
14 52	Pass	Pass	same								
15 52	Pass	Pass	same								
13 53	Pass	Pass	same								
14 53	Pass	Pass	same								
15 53	Pass	Pass	same								
13 54	Pass	Pass	same								
14 54	Pass	Pass	same								
15 54	Pass	Pass	same								
13 55	Pass	Pass	same								
14 55	Pass	Pass	same								
15 55	Pass	Pass	same								
13 56	Pass	Pass	same								
14 56	Pass	Pass	same								
15 56	Pass	Pass	same								
13 57	Pass	Pass	same								
14 57	Pass	Pass	same								
15 57	Pass	Pass	same								
13 58	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
14 58	Pass	Pass	same								
15 58	Pass	Pass	same								
13 59	Pass	Pass	same								
14 59	Pass	Pass	same								
15 59	Pass	Pass	same								
30 59	Pass	Pass	same								
31 59	Pass	Pass	same								
32 59	Pass	Pass	same								
13 60	Pass	Pass	same								
14 60	Pass	Pass	same								
15 60	Pass	Pass	same								
30 60	Pass	Pass	same								
31 60	Pass	Pass	same								
32 60	Pass	Pass	same								
13 61	Pass	Pass	same								
14 61	Pass	Pass	same								
15 61	Pass	Pass	same								
30 61	Pass	Pass	same								
31 61	Pass	Pass	same								
32 61	Pass	Pass	same								
13 62	Pass	Pass	same								
14 62	Pass	Pass	same								
15 62	Pass	Pass	same								
30 62	Pass	Pass	same								
31 62	Pass	Pass	same								
32 62	Pass	Pass	same								
13 63	Pass	Pass	same								
14 63	Pass	Pass	same								
15 63	Pass	Pass	same								
30 63	Fail	Pass	FailtoPass	Pass	FailtoPass	Pass	FailtoPass	Pass	toPass	Pass	FailtoPass
31 63	Pass	Pass	same								
32 63	Fail	Pass	FailtoPass	Pass	FailtoPass	Pass	FailtoPass	Pass	toPass	Pass	FailtoPass
13 64	Pass	Pass	same								
14 64	Pass	Pass	same								
15 64	Pass	Pass	same								
30 64	Pass	Pass	same								
31 64	Pass	Pass	same								
32 64	Pass	Pass	same								
13 65	Pass	Pass	same								
14 65	Pass	Pass	same								
15 65	Pass	Pass	same								
30 65	Pass	Pass	same								
31 65	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
32 65	Pass	Pass	same								
33 65	Pass	Pass	same								
13 66	Pass	Pass	same								
14 66	Pass	Pass	same								
15 66	Pass	Pass	same								
30 66	Pass	Pass	same								
31 66	Pass	Pass	same								
32 66	Pass	Pass	same								
36 66	Pass	Pass	same								
13 67	Pass	Pass	same								
14 67	Pass	Pass	same								
15 67	Pass	Pass	same								
30 67	Pass	Pass	same								
31 67	Pass	Pass	same								
32 67	Pass	Pass	same								
36 67	Pass	Pass	same								
13 68	Pass	Pass	same								
14 68	Pass	Pass	same								
15 68	Pass	Pass	same								
30 68	Pass	Pass	same								
31 68	Pass	Pass	same								
32 68	Pass	Pass	same								
36 68	Pass	Pass	same								
13 69	Pass	Pass	same								
14 69	Pass	Pass	same								
15 69	Pass	Pass	same								
30 69	Pass	Pass	same								
31 69	Pass	Pass	same								
32 69	Pass	Pass	same								
36 69	Pass	Pass	same								
13 70	Pass	Pass	same								
14 70	Pass	Pass	same								
15 70	Pass	Pass	same								
30 70	Pass	Pass	same								
31 70	Pass	Pass	same								
32 70	Pass	Pass	same								
33 70	Pass	Pass	same								
13 71	Pass	Pass	same								
14 71	Pass	Pass	same								
15 71	Pass	Pass	same								
30 71	Pass	Pass	same								
31 71	Pass	Pass	same								
32 71	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
13 72	Pass	Pass	same								
14 72	Pass	Pass	same								
15 72	Pass	Pass	same								
30 72	Pass	Pass	same								
31 72	Pass	Pass	same								
32 72	Pass	Pass	same								
13 73	Pass	Pass	same								
14 73	Pass	Pass	same								
15 73	Pass	Pass	same								
30 73	Pass	Pass	same								
31 73	Pass	Pass	same								
13 74	Pass	Pass	same								
14 74	Pass	Pass	same								
15 74	Pass	Pass	same								
30 74	Pass	Pass	same								
31 74	Pass	Pass	same								
13 75	Pass	Pass	same								
14 75	Pass	Pass	same								
15 75	Pass	Pass	same								
30 75	Pass	Pass	same								
31 75	Pass	Pass	same								
13 76	Pass	Pass	same								
14 76	Pass	Pass	same								
15 76	Pass	Pass	same								
16 76	Pass	Pass	same								
17 76	Pass	Pass	same								
30 76	Pass	Pass	same								
31 76	Pass	Pass	same								
13 77	Pass	Pass	same								
14 77	Pass	Pass	same								
15 77	Pass	Pass	same								
16 77	Pass	Pass	same								
17 77	Pass	Pass	same								
30 77	Pass	Pass	same								
31 77	Pass	Pass	same								
13 78	Pass	Pass	same								
14 78	Pass	Pass	same								
15 78	Pass	Pass	same								
16 78	Pass	Pass	same								
17 78	Pass	Pass	same								
30 78	Pass	Pass	same								
31 78	Pass	Pass	same								
13 79	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
14 79	Pass	Pass	same								
15 79	Pass	Pass	same								
30 79	Pass	Pass	same								
31 79	Pass	Pass	same								
13 80	Pass	Pass	same								
14 80	Pass	Pass	same								
15 80	Pass	Pass	same								
30 80	Pass	Pass	same								
31 80	Pass	Pass	same								
13 81	Pass	Pass	same								
14 81	Pass	Pass	same								
15 81	Pass	Pass	same								
30 81	Pass	Pass	same								
31 81	Pass	Pass	same								
13 82	Pass	Pass	same								
14 82	Pass	Pass	same								
15 82	Pass	Pass	same								
16 82	Pass	Pass	same								
17 82	Pass	Pass	same								
18 82	Pass	Pass	same								
19 82	Pass	Pass	same								
20 82	Pass	Pass	same								
21 82	Pass	Pass	same								
29 82	Pass	Pass	same								
30 82	Pass	Pass	same								
31 82	Pass	Pass	same								
13 83	Pass	Pass	same								
14 83	Pass	Pass	same								
15 83	Pass	Pass	same								
21 83	Pass	Pass	same								
30 83	Pass	Pass	same								
31 83	Pass	Pass	same								
13 84	Pass	Pass	same								
14 84	Pass	Pass	same								
15 84	Pass	Pass	same								
21 84	Pass	Pass	same								
30 84	Pass	Pass	same								
31 84	Pass	Pass	same								
13 85	Pass	Pass	same								
14 85	Pass	Pass	same								
15 85	Pass	Pass	same								
21 85	Pass	Pass	same								
30 85	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
13 86	Pass	Pass	same								
14 86	Pass	Pass	same								
15 86	Pass	Pass	same								
21 86	Pass	Pass	same								
30 86	Pass	Pass	same								
13 87	Pass	Pass	same								
14 87	Pass	Pass	same								
15 87	Pass	Pass	same								
30 87	Pass	Pass	same								
13 88	Pass	Pass	same								
14 88	Pass	Pass	same								
15 88	Pass	Pass	same								
30 88	Pass	Pass	same								
13 89	Pass	Pass	same								
14 89	Pass	Pass	same								
15 89	Pass	Pass	same								
30 89	Pass	Pass	same								
13 90	Pass	Pass	same								
14 90	Pass	Pass	same								
15 90	Pass	Pass	same								
30 90	Pass	Pass	same								
13 91	Pass	Pass	same								
14 91	Pass	Pass	same								
15 91	Pass	Pass	same								
16 91	Pass	Pass	same								
30 91	Pass	Pass	same								
13 92	Pass	Pass	same								
14 92	Pass	Pass	same								
15 92	Pass	Pass	same								
16 92	Pass	Pass	same								
30 92	Pass	Pass	same								
13 93	Pass	Pass	same								
14 93	Pass	Pass	same								
15 93	Pass	Pass	same								
16 93	Pass	Pass	same								
30 93	Pass	Pass	same								
13 94	Pass	Pass	same								
14 94	Pass	Pass	same								
15 94	Pass	Pass	same								
16 94	Pass	Pass	same								
26 94	Pass	Pass	same								
30 94	Pass	Pass	same								
13 95	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
14 95	Pass	Pass	same								
15 95	Pass	Pass	same								
16 95	Pass	Pass	same								
26 95	Pass	Pass	same								
30 95	Pass	Pass	same								
13 96	Pass	Pass	same								
14 96	Pass	Pass	same								
15 96	Pass	Pass	same								
26 96	Pass	Pass	same								
30 96	Pass	Pass	same								
13 97	Pass	Pass	same								
14 97	Pass	Pass	same								
15 97	Pass	Pass	same								
26 97	Pass	Pass	same								
30 97	Pass	Pass	same								
13 98	Pass	Pass	same								
14 98	Pass	Pass	same								
15 98	Pass	Pass	same								
26 98	Pass	Pass	same								
27 98	Pass	Pass	same								
28 98	Pass	Fail	PasstoFail								
29 98	Pass	Pass	same								
30 98	Pass	Pass	same								
13 99	Pass	Pass	same								
14 99	Pass	Pass	same								
15 99	Pass	Pass	same								
16 99	Pass	Pass	same								
17 99	Pass	Pass	same								
18 99	Pass	Pass	same								
19 99	Pass	Pass	same								
20 99	Pass	Pass	same								
21 99	Pass	Pass	same								
22 99	Pass	Pass	same								
23 99	Pass	Pass	same								
26 99	Pass	Pass	same								
30 99	Pass	Pass	same								
13 100	Pass	Pass	same								
14 100	Pass	Pass	same								
15 100	Pass	Pass	same								
23 100	Pass	Pass	same								
24 100	Pass	Pass	same								
25 100	Pass	Pass	same								
26 100	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
30 100	Pass	Pass	same								
13 101	Pass	Pass	same								
14 101	Pass	Pass	same								
15 101	Pass	Pass	same								
16 101	Pass	Pass	same								
17 101	Pass	Pass	same								
18 101	Pass	Pass	same								
19 101	Pass	Pass	same								
20 101	Pass	Pass	same								
21 101	Pass	Pass	same								
22 101	Pass	Pass	same								
23 101	Pass	Pass	same								
26 101	Pass	Pass	same								
30 101	Pass	Pass	same								
13 102	Pass	Pass	same								
14 102	Pass	Pass	same								
15 102	Pass	Pass	same								
26 102	Pass	Pass	same								
30 102	Pass	Pass	same								
13 103	Pass	Pass	same								
14 103	Pass	Pass	same								
15 103	Pass	Pass	same								
26 103	Pass	Pass	same								
30 103	Pass	Pass	same								
13 104	Pass	Pass	same								
14 104	Pass	Pass	same								
15 104	Pass	Pass	same								
26 104	Pass	Pass	same								
30 104	Pass	Pass	same								
13 105	Pass	Pass	same								
14 105	Pass	Pass	same								
15 105	Pass	Pass	same								
26 105	Pass	Pass	same								
30 105	Pass	Pass	same								
13 106	Pass	Pass	same								
14 106	Pass	Pass	same								
15 106	Pass	Pass	same								
26 106	Pass	Pass	same								
27 106	Pass	Pass	same								
30 106	Pass	Pass	same								
39 106	Pass	Pass	same								
13 107	Pass	Pass	same								
14 107	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
15 107	Pass	Pass	same								
22 107	Pass	Pass	same								
26 107	Pass	Pass	same								
30 107	Pass	Pass	same								
39 107	Pass	Pass	same								
13 108	Pass	Pass	same								
14 108	Pass	Pass	same								
15 108	Pass	Pass	same								
22 108	Pass	Pass	same								
26 108	Pass	Pass	same								
30 108	Pass	Pass	same								
39 108	Pass	Pass	same								
13 109	Pass	Pass	same								
14 109	Pass	Pass	same								
15 109	Pass	Pass	same								
22 109	Pass	Pass	same								
26 109	Pass	Pass	same								
30 109	Pass	Pass	same								
39 109	Pass	Pass	same								
13 110	Pass	Pass	same								
14 110	Pass	Pass	same								
15 110	Pass	Pass	same								
22 110	Pass	Pass	same								
26 110	Pass	Pass	same								
39 110	Pass	Pass	same								
13 111	Pass	Pass	same								
14 111	Pass	Pass	same								
15 111	Pass	Pass	same								
22 111	Pass	Pass	same								
26 111	Pass	Pass	same								
39 111	Pass	Pass	same								
13 112	Pass	Pass	same								
14 112	Pass	Pass	same								
15 112	Pass	Pass	same								
22 112	Pass	Pass	same								
26 112	Pass	Pass	same								
39 112	Pass	Pass	same								
13 113	Pass	Pass	same								
14 113	Pass	Pass	same								
15 113	Pass	Pass	same								
26 113	Pass	Pass	same								
27 113	Pass	Pass	same								
39 113	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
13 114	Pass	Pass	same								
14 114	Pass	Pass	same								
15 114	Pass	Pass	same								
26 114	Pass	Pass	same								
39 114	Pass	Pass	same								
13 115	Pass	Pass	same								
14 115	Pass	Pass	same								
15 115	Pass	Pass	same								
26 115	Pass	Pass	same								
39 115	Pass	Pass	same								
13 116	Pass	Pass	same								
14 116	Pass	Pass	same								
15 116	Pass	Pass	same								
26 116	Pass	Pass	same								
39 116	Pass	Pass	same								
13 117	Pass	Pass	same								
14 117	Pass	Pass	same								
15 117	Pass	Pass	same								
26 117	Pass	Pass	same								
39 117	Pass	Pass	same								
13 118	Pass	Pass	same								
14 118	Pass	Pass	same								
15 118	Pass	Pass	same								
20 118	Pass	Pass	same	Fail	PasstoFail	Fail	PasstoFail	Fail	PasstoFail	Fail	PasstoFail
26 118	Pass	Pass	same								
39 118	Pass	Pass	same								
13 119	Pass	Pass	same								
14 119	Pass	Pass	same								
15 119	Pass	Pass	same								
20 119	Pass	Pass	same								
26 119	Pass	Pass	same								
39 119	Pass	Pass	same								
13 120	Pass	Pass	same								
14 120	Pass	Pass	same								
15 120	Pass	Pass	same								
16 120	Pass	Fail	PasstoFail	Pass	same	Pass	same	Pass	same	Pass	same
26 120	Pass	Pass	same								
39 120	Pass	Pass	same								
13 121	Pass	Pass	same								
14 121	Pass	Pass	same								
26 121	Pass	Pass	same								
39 121	Pass	Pass	same								
13 122	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
14 122	Pass	Fail	PasstoFail								
26 122	Pass	Pass	same								
39 122	Pass	Pass	same								
13 123	Pass	Pass	same								
14 123	Pass	Pass	same								
15 123	Pass	Pass	same								
16 123	Pass	Pass	same								
17 123	Pass	Pass	same								
18 123	Pass	Pass	same								
19 123	Pass	Pass	same								
20 123	Pass	Pass	same								
21 123	Pass	Pass	same								
22 123	Pass	Pass	same								
23 123	Pass	Pass	same								
24 123	Pass	Pass	same								
25 123	Pass	Pass	same								
26 123	Pass	Pass	same								
27 123	Pass	Pass	same								
28 123	Pass	Pass	same								
29 123	Pass	Pass	same								
30 123	Pass	Pass	same								
31 123	Pass	Pass	same								
32 123	Pass	Pass	same								
33 123	Pass	Pass	same								
34 123	Pass	Pass	same								
35 123	Pass	Pass	same								
36 123	Pass	Pass	same								
37 123	Pass	Pass	same								
38 123	Pass	Pass	same								
39 123	Pass	Pass	same								
13 124	Pass	Pass	same								
14 124	Pass	Pass	same								
23 124	Pass	Pass	same								
13 125	Pass	Pass	same								
14 125	Pass	Pass	same								
23 125	Pass	Pass	same								
13 126	Pass	Pass	same								
14 126	Pass	Pass	same								
23 126	Pass	Pass	same								
13 127	Pass	Pass	same								
14 127	Pass	Pass	same								
23 127	Pass	Pass	same								
13 128	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
14 128	Pass	Pass	same								
23 128	Pass	Pass	same								
13 129	Pass	Pass	same								
14 129	Pass	Pass	same								
23 129	Pass	Pass	same								
8 130	Pass	Pass	same								
9 130	Pass	Pass	same								
10 130	Pass	Pass	same								
11 130	Pass	Pass	same								
12 130	Pass	Pass	same								
13 130	Pass	Pass	same								
14 130	Pass	Pass	same								
23 130	Pass	Pass	same								
14 131	Pass	Pass	same								
23 131	Pass	Pass	same								
14 132	Pass	Pass	same								
23 132	Pass	Pass	same								
14 133	Pass	Pass	same								
23 133	Pass	Pass	same								
14 134	Pass	Pass	same								
23 134	Pass	Pass	same								
14 135	Pass	Pass	same								
14 136	Pass	Pass	same								
14 137	Pass	Pass	same								
14 138	Pass	Pass	same								
14 139	Pass	Pass	same								
14 140	Pass	Pass	same								
14 141	Pass	Pass	same								
14 142	Pass	Pass	same								
14 143	Pass	Pass	same								
14 144	Pass	Pass	same								
14 145	Pass	Pass	same								
14 146	Pass	Pass	same								
14 147	Pass	Pass	same								
14 148	Pass	Pass	same								
14 149	Pass	Pass	same								
14 150	Pass	Pass	same								
14 151	Pass	Pass	same								
14 152	Pass	Pass	same								
14 153	Pass	Pass	same								
14 154	Pass	Pass	same								
14 155	Pass	Pass	same								
14 156	Pass	Pass	same								

American Shad

80th percentile MAY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOex80	DO6b2ft80	CHANGE6b2ft80	DO6a3ft80	CHANGE6a3ft80	DO6a4ft80	CHANGE6a4ft80	DO6a5ft80	CHANGE6a5ft80	DO6a6ft80	CHANGE6a6ft80
14 157	Pass	Pass	same								
14 158	Pass	Pass	same								
14 159	Pass	Pass	same								
14 160	Pass	Pass	same								
14 161	Pass	Pass	same								
14 162	Pass	Pass	same								
14 163	Pass	Pass	same								
14 164	Pass	Pass	same								
14 165	Pass	Pass	same								
14 166	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
13 47	Pass	Pass	same								
14 47	Pass	Pass	same								
15 47	Pass	Pass	same								
16 47	Pass	Pass	same								
17 47	Pass	Pass	same								
13 48	Pass	Pass	same								
14 48	Pass	Pass	same								
15 48	Pass	Pass	same								
16 48	Pass	Pass	same								
17 48	Pass	Pass	same								
13 49	Pass	Pass	same								
14 49	Pass	Pass	same								
15 49	Pass	Pass	same								
16 49	Pass	Pass	same								
17 49	Pass	Pass	same								
13 50	Pass	Pass	same								
14 50	Pass	Pass	same								
15 50	Pass	Pass	same								
16 50	Pass	Pass	same								
17 50	Pass	Pass	same								
18 50	Pass	Pass	same								
13 51	Pass	Pass	same								
14 51	Pass	Pass	same								
15 51	Pass	Pass	same								
13 52	Pass	Pass	same								
14 52	Pass	Pass	same								
15 52	Pass	Pass	same								
13 53	Pass	Pass	same								
14 53	Pass	Pass	same								
15 53	Pass	Pass	same								
13 54	Pass	Pass	same								
14 54	Pass	Pass	same								
15 54	Pass	Pass	same								
13 55	Pass	Pass	same								
14 55	Pass	Pass	same								
15 55	Pass	Pass	same								
13 56	Pass	Pass	same								
14 56	Pass	Pass	same								
15 56	Pass	Pass	same								
13 57	Pass	Pass	same								
14 57	Pass	Pass	same								
15 57	Pass	Pass	same								
13 58	Pass	Pass	same								
14 58	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
15 58	Pass	Pass	same								
13 59	Pass	Pass	same								
14 59	Pass	Pass	same								
15 59	Pass	Pass	same								
30 59	Pass	Pass	same								
31 59	Pass	Pass	same								
32 59	Pass	Pass	same								
13 60	Pass	Pass	same								
14 60	Pass	Pass	same								
15 60	Pass	Pass	same								
30 60	Pass	Pass	same								
31 60	Pass	Pass	same								
32 60	Pass	Pass	same								
13 61	Pass	Pass	same								
14 61	Pass	Pass	same								
15 61	Pass	Pass	same								
30 61	Pass	Pass	same								
31 61	Pass	Pass	same								
32 61	Pass	Pass	same								
13 62	Pass	Pass	same								
14 62	Pass	Pass	same								
15 62	Pass	Pass	same								
30 62	Pass	Pass	same								
31 62	Pass	Pass	same								
32 62	Pass	Pass	same								
13 63	Pass	Pass	same								
14 63	Pass	Pass	same								
15 63	Pass	Pass	same								
30 63	Fail	Pass	FailtoPass	Pass	FailtoPass	Pass	FailtoPass	Pass	same	Pass	FailtoPass
31 63	Pass	Pass	same								
32 63	Fail	Pass	FailtoPass	Pass	FailtoPass	Pass	FailtoPass	Pass	same	Pass	FailtoPass
13 64	Pass	Pass	same								
14 64	Pass	Pass	same								
15 64	Pass	Pass	same								
30 64	Pass	Pass	same								
31 64	Pass	Pass	same								
32 64	Pass	Pass	same								
13 65	Pass	Pass	same								
14 65	Pass	Pass	same								
15 65	Pass	Pass	same								
30 65	Pass	Pass	same								
31 65	Pass	Pass	same								
32 65	Pass	Pass	same								
33 65	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
13 66	Pass	Pass	same								
14 66	Pass	Pass	same								
15 66	Pass	Pass	same								
30 66	Pass	Pass	same								
31 66	Pass	Pass	same								
32 66	Pass	Pass	same								
36 66	Pass	Pass	same								
13 67	Pass	Pass	same								
14 67	Pass	Pass	same								
15 67	Pass	Pass	same								
30 67	Pass	Pass	same								
31 67	Pass	Pass	same								
32 67	Pass	Pass	same								
36 67	Pass	Pass	same								
13 68	Pass	Pass	same								
14 68	Pass	Pass	same								
15 68	Pass	Pass	same								
30 68	Pass	Pass	same								
31 68	Pass	Pass	same								
32 68	Pass	Pass	same								
36 68	Pass	Pass	same								
13 69	Pass	Pass	same								
14 69	Pass	Pass	same								
15 69	Pass	Pass	same								
30 69	Pass	Pass	same								
31 69	Pass	Pass	same								
32 69	Pass	Pass	same								
36 69	Pass	Pass	same								
13 70	Pass	Pass	same								
14 70	Pass	Pass	same								
15 70	Pass	Pass	same								
30 70	Pass	Pass	same								
31 70	Pass	Pass	same								
32 70	Pass	Pass	same								
33 70	Pass	Pass	same								
13 71	Pass	Pass	same								
14 71	Pass	Pass	same								
15 71	Pass	Pass	same								
30 71	Pass	Pass	same								
31 71	Pass	Pass	same								
32 71	Pass	Pass	same								
13 72	Pass	Pass	same								
14 72	Pass	Pass	same								
15 72	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
30 72	Pass	Pass	same								
31 72	Pass	Pass	same								
32 72	Pass	Pass	same								
13 73	Pass	Pass	same								
14 73	Pass	Pass	same								
15 73	Pass	Pass	same								
30 73	Pass	Pass	same								
31 73	Pass	Pass	same								
13 74	Pass	Pass	same								
14 74	Pass	Pass	same								
15 74	Pass	Pass	same								
30 74	Pass	Pass	same								
31 74	Pass	Pass	same								
13 75	Pass	Pass	same								
14 75	Pass	Pass	same								
15 75	Pass	Pass	same								
30 75	Pass	Pass	same								
31 75	Pass	Pass	same								
13 76	Pass	Pass	same								
14 76	Pass	Pass	same								
15 76	Pass	Pass	same								
16 76	Pass	Pass	same								
17 76	Pass	Pass	same								
30 76	Pass	Pass	same								
31 76	Pass	Pass	same								
13 77	Pass	Pass	same								
14 77	Pass	Pass	same								
15 77	Pass	Pass	same								
16 77	Pass	Pass	same								
17 77	Pass	Pass	same								
30 77	Pass	Pass	same								
31 77	Pass	Pass	same								
13 78	Pass	Pass	same								
14 78	Pass	Pass	same								
15 78	Pass	Pass	same								
16 78	Pass	Pass	same								
17 78	Pass	Pass	same								
30 78	Pass	Pass	same								
31 78	Pass	Pass	same								
13 79	Pass	Pass	same								
14 79	Pass	Pass	same								
15 79	Pass	Pass	same								
30 79	Pass	Pass	same								
31 79	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
13 80	Pass	Pass	same								
14 80	Pass	Pass	same								
15 80	Pass	Pass	same								
30 80	Pass	Pass	same								
31 80	Pass	Pass	same								
13 81	Pass	Pass	same								
14 81	Pass	Pass	same								
15 81	Pass	Pass	same								
30 81	Pass	Pass	same								
31 81	Pass	Pass	same								
13 82	Pass	Pass	same								
14 82	Pass	Pass	same								
15 82	Pass	Pass	same								
16 82	Pass	Pass	same								
17 82	Pass	Pass	same								
18 82	Pass	Pass	same								
19 82	Pass	Pass	same								
20 82	Pass	Pass	same								
21 82	Pass	Pass	same								
29 82	Pass	Pass	same								
30 82	Pass	Pass	same								
31 82	Pass	Pass	same								
13 83	Pass	Pass	same								
14 83	Pass	Pass	same								
15 83	Pass	Pass	same								
21 83	Pass	Pass	same								
30 83	Pass	Pass	same								
31 83	Pass	Pass	same								
13 84	Pass	Pass	same								
14 84	Pass	Pass	same								
15 84	Pass	Pass	same								
21 84	Pass	Pass	same								
30 84	Pass	Pass	same								
31 84	Pass	Pass	same								
13 85	Pass	Pass	same								
14 85	Pass	Pass	same								
15 85	Pass	Pass	same								
21 85	Pass	Pass	same								
30 85	Pass	Pass	same								
13 86	Pass	Pass	same								
14 86	Pass	Pass	same								
15 86	Pass	Pass	same								
21 86	Pass	Pass	same								
30 86	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
13 87	Pass	Pass	same								
14 87	Pass	Pass	same								
15 87	Pass	Pass	same								
30 87	Pass	Pass	same								
13 88	Pass	Pass	same								
14 88	Pass	Pass	same								
15 88	Pass	Pass	same								
30 88	Pass	Pass	same								
13 89	Pass	Pass	same								
14 89	Pass	Pass	same								
15 89	Pass	Pass	same								
30 89	Pass	Pass	same								
13 90	Pass	Pass	same								
14 90	Pass	Pass	same								
15 90	Pass	Pass	same								
30 90	Pass	Pass	same								
13 91	Pass	Pass	same								
14 91	Pass	Pass	same								
15 91	Pass	Pass	same								
16 91	Pass	Pass	same								
30 91	Pass	Pass	same								
13 92	Pass	Pass	same								
14 92	Pass	Pass	same								
15 92	Pass	Pass	same								
16 92	Pass	Pass	same								
30 92	Pass	Pass	same								
13 93	Pass	Pass	same								
14 93	Pass	Pass	same								
15 93	Pass	Pass	same								
16 93	Pass	Pass	same								
30 93	Pass	Pass	same								
13 94	Pass	Pass	same								
14 94	Pass	Pass	same								
15 94	Pass	Pass	same								
16 94	Pass	Pass	same								
26 94	Pass	Pass	same								
30 94	Pass	Pass	same								
13 95	Pass	Pass	same								
14 95	Pass	Pass	same								
15 95	Pass	Pass	same								
16 95	Pass	Pass	same								
26 95	Pass	Pass	same								
30 95	Pass	Pass	same								
13 96	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
14 96	Pass	Pass	same								
15 96	Pass	Pass	same								
26 96	Pass	Pass	same								
30 96	Pass	Pass	same								
13 97	Pass	Pass	same								
14 97	Pass	Pass	same								
15 97	Pass	Pass	same								
26 97	Pass	Pass	same								
30 97	Pass	Pass	same								
13 98	Pass	Pass	same								
14 98	Pass	Pass	same								
15 98	Pass	Pass	same								
26 98	Pass	Pass	same								
27 98	Pass	Pass	same								
28 98	Pass	Pass	same								
29 98	Pass	Pass	same								
30 98	Pass	Pass	same								
13 99	Pass	Pass	same								
14 99	Pass	Pass	same								
15 99	Pass	Pass	same								
16 99	Pass	Pass	same								
17 99	Pass	Pass	same								
18 99	Pass	Pass	same								
19 99	Pass	Pass	same								
20 99	Pass	Pass	same								
21 99	Pass	Pass	same								
22 99	Pass	Pass	same								
23 99	Pass	Pass	same								
26 99	Pass	Pass	same								
30 99	Pass	Pass	same								
13 100	Pass	Pass	same								
14 100	Pass	Pass	same								
15 100	Pass	Pass	same								
23 100	Pass	Pass	same								
24 100	Pass	Pass	same								
25 100	Pass	Pass	same								
26 100	Pass	Pass	same								
30 100	Pass	Pass	same								
13 101	Pass	Pass	same								
14 101	Pass	Pass	same								
15 101	Pass	Pass	same								
16 101	Pass	Pass	same								
17 101	Pass	Pass	same								
18 101	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
19 101	Pass	Pass	same								
20 101	Pass	Pass	same								
21 101	Pass	Pass	same								
22 101	Pass	Pass	same								
23 101	Pass	Pass	same								
26 101	Pass	Pass	same								
30 101	Pass	Pass	same								
13 102	Pass	Pass	same								
14 102	Pass	Pass	same								
15 102	Pass	Pass	same								
26 102	Pass	Pass	same								
30 102	Pass	Pass	same								
13 103	Pass	Pass	same								
14 103	Pass	Pass	same								
15 103	Pass	Pass	same								
26 103	Pass	Pass	same								
30 103	Pass	Pass	same								
13 104	Pass	Pass	same								
14 104	Pass	Pass	same								
15 104	Pass	Pass	same								
26 104	Pass	Pass	same								
30 104	Pass	Pass	same								
13 105	Pass	Pass	same								
14 105	Pass	Pass	same								
15 105	Pass	Pass	same								
26 105	Pass	Pass	same								
30 105	Pass	Pass	same								
13 106	Pass	Pass	same								
14 106	Pass	Pass	same								
15 106	Pass	Pass	same								
26 106	Pass	Pass	same								
27 106	Pass	Pass	same								
30 106	Pass	Pass	same								
39 106	Pass	Pass	same								
13 107	Pass	Pass	same								
14 107	Pass	Pass	same								
15 107	Pass	Pass	same								
22 107	Pass	Pass	same								
26 107	Pass	Pass	same								
30 107	Pass	Pass	same								
39 107	Pass	Pass	same								
13 108	Pass	Pass	same								
14 108	Pass	Pass	same								
15 108	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
22 108	Pass	Pass	same								
26 108	Pass	Pass	same								
30 108	Pass	Pass	same								
39 108	Pass	Pass	same								
13 109	Pass	Pass	same								
14 109	Pass	Pass	same								
15 109	Pass	Pass	same								
22 109	Pass	Pass	same								
26 109	Pass	Pass	same								
30 109	Pass	Pass	same								
39 109	Pass	Pass	same								
13 110	Pass	Pass	same								
14 110	Pass	Pass	same								
15 110	Pass	Pass	same								
22 110	Pass	Pass	same								
26 110	Pass	Pass	same								
39 110	Pass	Pass	same								
13 111	Pass	Pass	same								
14 111	Pass	Pass	same								
15 111	Pass	Pass	same								
22 111	Pass	Pass	same								
26 111	Pass	Pass	same								
39 111	Pass	Pass	same								
13 112	Pass	Pass	same								
14 112	Pass	Pass	same								
15 112	Pass	Pass	same								
22 112	Pass	Pass	same								
26 112	Pass	Pass	same								
39 112	Pass	Pass	same								
13 113	Pass	Pass	same								
14 113	Pass	Pass	same								
15 113	Pass	Pass	same								
26 113	Pass	Pass	same								
27 113	Pass	Pass	same								
39 113	Pass	Pass	same								
13 114	Pass	Pass	same								
14 114	Pass	Pass	same								
15 114	Pass	Pass	same								
26 114	Pass	Pass	same								
39 114	Pass	Pass	same								
13 115	Pass	Pass	same								
14 115	Pass	Pass	same								
15 115	Pass	Pass	same								
26 115	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
39 115	Pass	Pass	same								
13 116	Pass	Pass	same								
14 116	Pass	Pass	same								
15 116	Pass	Pass	same								
26 116	Pass	Pass	same								
39 116	Pass	Pass	same								
13 117	Pass	Pass	same								
14 117	Pass	Pass	same								
15 117	Pass	Pass	same								
26 117	Pass	Pass	same								
39 117	Pass	Pass	same								
13 118	Pass	Pass	same								
14 118	Pass	Pass	same								
15 118	Pass	Pass	same								
20 118	Pass	Pass	same								
26 118	Pass	Pass	same								
39 118	Pass	Pass	same								
13 119	Pass	Pass	same								
14 119	Pass	Pass	same								
15 119	Pass	Pass	same								
20 119	Pass	Pass	same								
26 119	Pass	Pass	same								
39 119	Pass	Pass	same								
13 120	Pass	Pass	same								
14 120	Pass	Pass	same								
15 120	Pass	Pass	same								
16 120	Pass	Pass	same								
26 120	Pass	Pass	same								
39 120	Pass	Pass	same								
13 121	Pass	Pass	same								
14 121	Pass	Pass	same								
26 121	Pass	Pass	same								
39 121	Pass	Pass	same								
13 122	Pass	Pass	same								
14 122	Pass	Fail	PasstoFail								
26 122	Pass	Pass	same								
39 122	Pass	Pass	same								
13 123	Pass	Pass	same								
14 123	Pass	Pass	same								
15 123	Pass	Pass	same								
16 123	Pass	Pass	same								
17 123	Pass	Pass	same								
18 123	Pass	Pass	same								
19 123	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
20 123	Pass	Pass	same								
21 123	Pass	Pass	same								
22 123	Pass	Pass	same								
23 123	Pass	Pass	same								
24 123	Pass	Pass	same								
25 123	Pass	Pass	same								
26 123	Pass	Pass	same								
27 123	Pass	Pass	same								
28 123	Pass	Pass	same								
29 123	Pass	Pass	same								
30 123	Pass	Pass	same								
31 123	Pass	Pass	same								
32 123	Pass	Pass	same								
33 123	Pass	Pass	same								
34 123	Pass	Pass	same								
35 123	Pass	Pass	same								
36 123	Pass	Pass	same								
37 123	Pass	Pass	same								
38 123	Pass	Pass	same								
39 123	Pass	Pass	same								
13 124	Pass	Pass	same								
14 124	Pass	Pass	same								
23 124	Pass	Pass	same								
13 125	Pass	Pass	same								
14 125	Pass	Pass	same								
23 125	Pass	Pass	same								
13 126	Pass	Pass	same								
14 126	Pass	Pass	same								
23 126	Pass	Pass	same								
13 127	Pass	Pass	same								
14 127	Pass	Pass	same								
23 127	Pass	Pass	same								
13 128	Pass	Pass	same								
14 128	Pass	Pass	same								
23 128	Pass	Pass	same								
13 129	Pass	Pass	same								
14 129	Pass	Pass	same								
23 129	Pass	Pass	same								
8 130	Pass	Pass	same								
9 130	Pass	Pass	same								
10 130	Pass	Pass	same								
11 130	Pass	Pass	same								
12 130	Pass	Pass	same								
13 130	Pass	Pass	same								

American Shad

50th percentile JANUARY flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	CHANGE6b2ft	DO6a3ft	CHANGE6a3ft	DO6a4ft	CHANGE6a4ft	DO6a5ft	CHANGE6a5ft	DO6a6ft	CHANGE6a6ft
14 130	Pass	Pass	same								
23 130	Pass	Pass	same								
14 131	Pass	Pass	same								
23 131	Pass	Pass	same								
14 132	Pass	Pass	same								
23 132	Pass	Pass	same								
14 133	Pass	Pass	same								
23 133	Pass	Pass	same								
14 134	Pass	Pass	same								
23 134	Pass	Pass	same								
14 135	Pass	Pass	same								
14 136	Pass	Pass	same								
14 137	Pass	Pass	same								
14 138	Pass	Pass	same								
14 139	Pass	Pass	same								
14 140	Pass	Pass	same								
14 141	Pass	Pass	same								
14 142	Pass	Pass	same								
14 143	Pass	Pass	same								
14 144	Pass	Pass	same								
14 145	Pass	Pass	same								
14 146	Pass	Pass	same								
14 147	Pass	Pass	same								
14 148	Pass	Pass	same								
14 149	Pass	Pass	same								
14 150	Pass	Pass	same								
14 151	Pass	Pass	same								
14 152	Pass	Pass	same								
14 153	Pass	Pass	same								
14 154	Pass	Pass	same								
14 155	Pass	Pass	same								
14 156	Pass	Pass	same								
14 157	Pass	Pass	same								
14 158	Pass	Pass	same								
14 159	Pass	Pass	same								
14 160	Pass	Pass	same								
14 161	Pass	Pass	same								
14 162	Pass	Pass	same								
14 163	Pass	Pass	same								
14 164	Pass	Pass	same								
14 165	Pass	Pass	same								
14 166	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
13 47	Pass	Pass	same								
14 47	Pass	Pass	same								
15 47	Pass	Pass	same								
16 47	Pass	Pass	same								
17 47	Pass	Pass	same								
13 48	Pass	Pass	same								
14 48	Pass	Pass	same								
15 48	Pass	Pass	same								
16 48	Pass	Pass	same								
17 48	Pass	Pass	same								
13 49	Pass	Pass	same								
14 49	Pass	Pass	same								
15 49	Pass	Pass	same								
16 49	Pass	Pass	same								
17 49	Pass	Pass	same								
13 50	Pass	Pass	same								
14 50	Pass	Pass	same								
15 50	Pass	Pass	same								
16 50	Pass	Pass	same								
17 50	Pass	Pass	same								
18 50	Pass	Pass	same								
13 51	Pass	Pass	same								
14 51	Pass	Pass	same								
15 51	Pass	Pass	same								
13 52	Pass	Pass	same								
14 52	Pass	Pass	same								
15 52	Pass	Pass	same								
13 53	Pass	Pass	same								
14 53	Pass	Pass	same								
15 53	Pass	Pass	same								
13 54	Pass	Pass	same								
14 54	Pass	Pass	same								
15 54	Pass	Pass	same								
13 55	Pass	Pass	same								
14 55	Pass	Pass	same								
15 55	Pass	Pass	same								
13 56	Pass	Pass	same								
14 56	Pass	Pass	same								
15 56	Pass	Pass	same								
13 57	Pass	Pass	same								
14 57	Pass	Pass	same								
15 57	Pass	Pass	same								
13 58	Pass	Pass	same								
14 58	Pass	Pass	same								
15 58	Pass	Pass	same								
13 59	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
14 59	Pass	Pass	same								
15 59	Pass	Pass	same								
30 59	Pass	Pass	same								
31 59	Pass	Pass	same								
32 59	Pass	Pass	same								
13 60	Pass	Pass	same								
14 60	Pass	Pass	same								
15 60	Pass	Pass	same								
30 60	Pass	Pass	same								
31 60	Pass	Pass	same								
32 60	Pass	Pass	same								
13 61	Pass	Pass	same								
14 61	Pass	Pass	same								
15 61	Pass	Pass	same								
30 61	Pass	Pass	same								
31 61	Pass	Pass	same								
32 61	Pass	Pass	same								
13 62	Pass	Pass	same								
14 62	Pass	Pass	same								
15 62	Pass	Pass	same								
30 62	Pass	Pass	same								
31 62	Pass	Pass	same								
32 62	Pass	Pass	same								
13 63	Pass	Pass	same								
14 63	Pass	Pass	same								
15 63	Pass	Pass	same								
30 63	Fail	Pass	FailtoPass								
31 63	Pass	Pass	same								
32 63	Fail	Pass	FailtoPass								
13 64	Pass	Pass	same								
14 64	Pass	Pass	same								
15 64	Pass	Pass	same								
30 64	Pass	Pass	same								
31 64	Pass	Pass	same								
32 64	Pass	Pass	same								
13 65	Pass	Pass	same								
14 65	Pass	Pass	same								
15 65	Pass	Pass	same								
30 65	Pass	Pass	same								
31 65	Pass	Pass	same								
32 65	Pass	Pass	same								
33 65	Pass	Pass	same								
13 66	Pass	Pass	same								
14 66	Pass	Pass	same								
15 66	Pass	Pass	same								
30 66	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
31 66	Pass	Pass	same								
32 66	Pass	Pass	same								
36 66	Pass	Pass	same								
38 66	Pass	Pass	same	Fail	PasstoFail	Fail	PasstoFail	Fail	PasstoFail	Fail	PasstoFail
13 67	Pass	Pass	same								
14 67	Pass	Pass	same								
15 67	Pass	Pass	same								
30 67	Pass	Pass	same								
31 67	Pass	Pass	same								
32 67	Pass	Pass	same								
36 67	Pass	Pass	same								
13 68	Pass	Pass	same								
14 68	Pass	Pass	same								
15 68	Pass	Pass	same								
30 68	Pass	Pass	same								
31 68	Pass	Pass	same								
32 68	Pass	Pass	same								
36 68	Pass	Pass	same								
38 68	Fail	Pass	FailtoPass	Pass	FailtoPass	Fail	same	Fail	same	Fail	same
13 69	Pass	Pass	same								
14 69	Pass	Pass	same								
15 69	Pass	Pass	same								
30 69	Pass	Pass	same								
31 69	Pass	Pass	same								
32 69	Pass	Pass	same								
36 69	Pass	Pass	same								
13 70	Pass	Pass	same								
14 70	Pass	Pass	same								
15 70	Pass	Pass	same								
30 70	Pass	Pass	same								
31 70	Pass	Pass	same								
32 70	Pass	Pass	same								
33 70	Pass	Pass	same								
13 71	Pass	Pass	same								
14 71	Pass	Pass	same								
15 71	Pass	Pass	same								
30 71	Pass	Pass	same								
31 71	Pass	Pass	same								
32 71	Pass	Pass	same								
13 72	Pass	Pass	same								
14 72	Pass	Pass	same								
15 72	Pass	Pass	same								
30 72	Pass	Pass	same								
31 72	Pass	Pass	same								
32 72	Pass	Pass	same								
13 73	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
14 73	Pass	Pass	same								
15 73	Pass	Pass	same								
30 73	Pass	Pass	same								
31 73	Pass	Pass	same								
13 74	Pass	Pass	same								
14 74	Pass	Pass	same								
15 74	Pass	Pass	same								
30 74	Pass	Pass	same								
31 74	Pass	Pass	same								
13 75	Pass	Pass	same								
14 75	Pass	Pass	same								
15 75	Pass	Pass	same								
30 75	Pass	Pass	same								
31 75	Pass	Pass	same								
13 76	Pass	Pass	same								
14 76	Pass	Pass	same								
15 76	Pass	Pass	same								
16 76	Pass	Pass	same								
17 76	Pass	Pass	same								
30 76	Pass	Pass	same								
31 76	Pass	Pass	same								
33 76	Pass	Pass	same								
13 77	Pass	Pass	same								
14 77	Pass	Pass	same								
15 77	Pass	Pass	same								
16 77	Pass	Pass	same								
17 77	Pass	Pass	same								
30 77	Pass	Pass	same								
31 77	Pass	Pass	same								
13 78	Pass	Pass	same								
14 78	Pass	Pass	same								
15 78	Pass	Pass	same								
16 78	Pass	Pass	same								
17 78	Pass	Pass	same								
30 78	Pass	Pass	same								
31 78	Pass	Pass	same								
13 79	Pass	Pass	same								
14 79	Pass	Pass	same								
15 79	Pass	Pass	same								
30 79	Pass	Pass	same								
31 79	Pass	Pass	same								
13 80	Pass	Pass	same								
14 80	Pass	Pass	same								
15 80	Pass	Pass	same								
30 80	Pass	Pass	same								
31 80	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
13 81	Pass	Pass	same								
14 81	Pass	Pass	same								
15 81	Pass	Pass	same								
30 81	Pass	Pass	same								
31 81	Pass	Pass	same								
13 82	Pass	Pass	same								
14 82	Pass	Pass	same								
15 82	Pass	Pass	same								
16 82	Pass	Pass	same								
17 82	Pass	Pass	same								
18 82	Pass	Pass	same								
19 82	Pass	Pass	same								
20 82	Pass	Pass	same								
21 82	Pass	Pass	same								
29 82	Pass	Fail	PasstoFail	Fail	PasstoFail	Pass	same	Pass	same	Pass	same
30 82	Pass	Pass	same								
31 82	Pass	Pass	same								
13 83	Pass	Pass	same								
14 83	Pass	Pass	same								
15 83	Pass	Pass	same								
21 83	Pass	Pass	same								
30 83	Pass	Pass	same								
31 83	Pass	Pass	same								
13 84	Pass	Pass	same								
14 84	Pass	Pass	same								
15 84	Pass	Pass	same								
21 84	Pass	Pass	same								
30 84	Pass	Pass	same								
31 84	Pass	Pass	same								
13 85	Pass	Pass	same								
14 85	Pass	Pass	same								
15 85	Pass	Pass	same								
21 85	Pass	Pass	same								
30 85	Pass	Pass	same								
13 86	Pass	Pass	same								
14 86	Pass	Pass	same								
15 86	Pass	Pass	same								
17 86	Pass	Pass	same								
21 86	Pass	Pass	same								
30 86	Pass	Pass	same								
13 87	Pass	Pass	same								
14 87	Pass	Pass	same								
15 87	Pass	Pass	same								
30 87	Pass	Pass	same								
32 87	Pass	Fail	PasstoFail	Fail	PasstoFail	Fail	PasstoFail	Pass	same	Fail	PasstoFail
13 88	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
14 88	Pass	Pass	same								
15 88	Pass	Pass	same								
30 88	Pass	Pass	same								
13 89	Pass	Pass	same								
14 89	Pass	Pass	same								
15 89	Pass	Pass	same								
30 89	Pass	Pass	same								
13 90	Pass	Pass	same								
14 90	Pass	Pass	same								
15 90	Pass	Pass	same								
30 90	Pass	Pass	same								
13 91	Pass	Pass	same								
14 91	Pass	Pass	same								
15 91	Pass	Pass	same								
16 91	Pass	Pass	same								
30 91	Pass	Pass	same								
13 92	Pass	Pass	same								
14 92	Pass	Pass	same								
15 92	Pass	Pass	same								
16 92	Pass	Pass	same								
30 92	Pass	Pass	same								
32 92	Fail	Pass	FailtoPass	Fail	same	Pass	FailtoPass	Pass	FailtoPass	Pass	FailtoPass
13 93	Pass	Pass	same								
14 93	Pass	Pass	same								
15 93	Pass	Pass	same								
16 93	Pass	Pass	same								
30 93	Pass	Pass	same								
13 94	Pass	Pass	same								
14 94	Pass	Pass	same								
15 94	Pass	Pass	same								
16 94	Pass	Pass	same								
26 94	Pass	Pass	same								
30 94	Pass	Pass	same								
13 95	Pass	Pass	same								
14 95	Pass	Pass	same								
15 95	Pass	Pass	same								
16 95	Pass	Pass	same								
26 95	Pass	Pass	same								
28 95	Pass	Pass	same								
30 95	Pass	Pass	same								
11 96	Pass	Pass	same								
13 96	Pass	Pass	same								
14 96	Pass	Pass	same								
15 96	Pass	Pass	same								
26 96	Pass	Pass	same								
30 96	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
13 97	Pass	Pass	same								
14 97	Pass	Pass	same								
15 97	Pass	Pass	same								
26 97	Pass	Pass	same								
30 97	Pass	Pass	same								
13 98	Pass	Pass	same								
14 98	Pass	Pass	same								
15 98	Pass	Pass	same								
26 98	Pass	Pass	same								
27 98	Pass	Pass	same								
28 98	Pass	Fail	PasstoFail								
29 98	Pass	Pass	same								
30 98	Pass	Pass	same								
13 99	Pass	Pass	same								
14 99	Pass	Pass	same								
15 99	Pass	Pass	same								
16 99	Pass	Pass	same								
17 99	Pass	Pass	same								
18 99	Pass	Pass	same								
19 99	Pass	Pass	same								
20 99	Pass	Pass	same								
21 99	Pass	Pass	same								
22 99	Pass	Pass	same								
23 99	Pass	Pass	same								
26 99	Pass	Pass	same								
30 99	Pass	Pass	same								
13 100	Pass	Pass	same								
14 100	Pass	Pass	same								
15 100	Pass	Pass	same								
23 100	Pass	Pass	same								
24 100	Pass	Pass	same								
25 100	Pass	Pass	same								
26 100	Pass	Pass	same								
30 100	Pass	Pass	same								
13 101	Pass	Pass	same								
14 101	Pass	Pass	same								
15 101	Pass	Pass	same								
16 101	Pass	Pass	same								
17 101	Pass	Pass	same								
18 101	Pass	Pass	same								
19 101	Pass	Pass	same								
20 101	Pass	Pass	same								
21 101	Pass	Pass	same								
22 101	Pass	Pass	same								
23 101	Pass	Pass	same								
26 101	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
30 101	Pass	Pass	same								
13 102	Pass	Pass	same								
14 102	Pass	Pass	same								
15 102	Pass	Pass	same								
26 102	Pass	Pass	same								
30 102	Pass	Pass	same								
13 103	Pass	Pass	same								
14 103	Pass	Pass	same								
15 103	Pass	Pass	same								
26 103	Pass	Pass	same								
30 103	Pass	Pass	same								
11 104	Pass	Pass	same								
13 104	Pass	Pass	same								
14 104	Pass	Pass	same								
15 104	Pass	Pass	same								
26 104	Pass	Pass	same								
30 104	Pass	Pass	same								
13 105	Pass	Pass	same								
14 105	Pass	Pass	same								
15 105	Pass	Pass	same								
26 105	Pass	Pass	same								
30 105	Pass	Pass	same								
13 106	Pass	Pass	same								
14 106	Pass	Pass	same								
15 106	Pass	Pass	same								
26 106	Pass	Pass	same								
27 106	Pass	Pass	same								
30 106	Pass	Pass	same								
39 106	Pass	Pass	same								
13 107	Pass	Pass	same								
14 107	Pass	Pass	same								
15 107	Pass	Pass	same								
22 107	Pass	Pass	same								
26 107	Pass	Pass	same								
30 107	Pass	Pass	same								
39 107	Pass	Pass	same								
13 108	Pass	Pass	same								
14 108	Pass	Pass	same								
15 108	Pass	Pass	same								
22 108	Pass	Pass	same								
24 108	Pass	Pass	same								
26 108	Pass	Pass	same								
30 108	Pass	Pass	same								
39 108	Pass	Pass	same								
13 109	Pass	Pass	same								
14 109	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
15 109	Pass	Pass	same								
22 109	Pass	Pass	same								
26 109	Pass	Pass	same								
30 109	Pass	Pass	same								
39 109	Pass	Pass	same								
13 110	Pass	Pass	same								
14 110	Pass	Pass	same								
15 110	Pass	Pass	same								
22 110	Pass	Pass	same								
26 110	Pass	Pass	same								
28 110	Pass	Pass	same								
39 110	Pass	Pass	same								
13 111	Pass	Pass	same								
14 111	Pass	Pass	same								
15 111	Pass	Pass	same								
22 111	Pass	Pass	same								
26 111	Pass	Pass	same								
39 111	Pass	Pass	same								
13 112	Pass	Pass	same								
14 112	Pass	Pass	same								
15 112	Pass	Pass	same								
22 112	Pass	Pass	same								
26 112	Pass	Pass	same								
39 112	Pass	Pass	same								
13 113	Pass	Pass	same								
14 113	Pass	Pass	same								
15 113	Pass	Pass	same								
26 113	Pass	Pass	same								
27 113	Pass	Pass	same								
39 113	Pass	Pass	same								
41 113	Pass	Pass	same								
13 114	Pass	Pass	same								
14 114	Pass	Pass	same								
15 114	Pass	Pass	same								
26 114	Pass	Pass	same								
39 114	Pass	Pass	same								
13 115	Pass	Pass	same								
14 115	Pass	Pass	same								
15 115	Pass	Pass	same								
26 115	Pass	Pass	same								
39 115	Pass	Pass	same								
13 116	Pass	Pass	same								
14 116	Pass	Pass	same								
15 116	Pass	Pass	same								
26 116	Pass	Pass	same								
28 116	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
39 116	Pass	Pass	same								
13 117	Pass	Pass	same								
14 117	Pass	Pass	same								
15 117	Pass	Pass	same								
26 117	Pass	Pass	same								
39 117	Pass	Pass	same								
13 118	Pass	Pass	same								
14 118	Pass	Pass	same								
15 118	Pass	Pass	same								
20 118	Pass	Pass	same	Fail	PasstoFail	Fail	PasstoFail	Fail	PasstoFail	Fail	PasstoFail
26 118	Pass	Pass	same								
39 118	Pass	Pass	same								
13 119	Pass	Pass	same								
14 119	Pass	Pass	same								
15 119	Pass	Pass	same								
20 119	Pass	Pass	same								
26 119	Pass	Pass	same								
39 119	Pass	Pass	same								
13 120	Pass	Pass	same								
14 120	Pass	Pass	same								
15 120	Pass	Pass	same								
16 120	Pass	Fail	PasstoFail	Pass	same	Pass	same	Pass	same	Pass	same
26 120	Pass	Pass	same								
39 120	Pass	Pass	same								
13 121	Pass	Pass	same								
14 121	Pass	Pass	same								
26 121	Pass	Pass	same								
39 121	Pass	Pass	same								
13 122	Pass	Pass	same								
14 122	Pass	Fail	PasstoFail								
26 122	Pass	Pass	same								
39 122	Pass	Pass	same								
41 122	Pass	Pass	same								
13 123	Pass	Pass	same								
14 123	Pass	Pass	same								
15 123	Pass	Pass	same								
16 123	Pass	Pass	same								
17 123	Pass	Pass	same								
18 123	Pass	Pass	same								
19 123	Pass	Pass	same								
20 123	Pass	Pass	same								
21 123	Pass	Pass	same								
22 123	Pass	Pass	same								
23 123	Pass	Pass	same								
24 123	Pass	Pass	same								
25 123	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
26 123	Pass	Pass	same								
27 123	Pass	Pass	same								
28 123	Pass	Pass	same								
29 123	Pass	Pass	same								
30 123	Pass	Pass	same								
31 123	Pass	Pass	same								
32 123	Pass	Pass	same								
33 123	Pass	Pass	same								
34 123	Pass	Pass	same								
35 123	Pass	Pass	same								
36 123	Pass	Pass	same								
37 123	Pass	Pass	same								
38 123	Pass	Pass	same								
39 123	Pass	Pass	same								
13 124	Pass	Pass	same								
14 124	Pass	Pass	same								
23 124	Pass	Pass	same								
13 125	Pass	Pass	same								
14 125	Pass	Pass	same								
23 125	Pass	Pass	same								
28 125	Pass	Pass	same								
33 125	Pass	Pass	same								
13 126	Pass	Pass	same								
14 126	Pass	Pass	same								
23 126	Pass	Pass	same								
13 127	Pass	Pass	same								
14 127	Pass	Pass	same								
23 127	Pass	Pass	same								
13 128	Pass	Pass	same								
14 128	Pass	Pass	same								
23 128	Pass	Pass	same								
13 129	Pass	Pass	same								
14 129	Pass	Pass	same								
23 129	Pass	Pass	same								
8 130	Pass	Pass	same								
9 130	Pass	Pass	same								
10 130	Pass	Pass	same								
11 130	Pass	Pass	same								
12 130	Pass	Pass	same								
13 130	Pass	Pass	same								
14 130	Pass	Pass	same								
23 130	Pass	Pass	same								
14 131	Pass	Pass	same								
23 131	Pass	Pass	same								
14 132	Pass	Pass	same								
23 132	Pass	Pass	same								

American Shad

August average flows

Suitable habitat when

D.O. \geq 4.0 mg/l at 90% exceedance (10th percentile)

I_J	Existing Conditions	Plan6b, 44 ft Depth		Plan6a, 45 ft Depth		Plan6a, 46 ft Depth		Plan6a, 47 ft Depth		Plan6a, 48 ft Depth	
	DOexisting	DO6b2ft	Change6b2ft	DO6a3ft	Change6a3ft	DO6a4ft	Change6a4ft	DO6a5ft	Change6a5ft	DO6a6ft	Change6a6ft
14 133	Pass	Pass	same								
23 133	Pass	Pass	same								
14 134	Pass	Pass	same								
23 134	Pass	Pass	same								
14 135	Pass	Pass	same								
14 136	Pass	Pass	same								
14 137	Pass	Pass	same								
14 138	Pass	Pass	same								
14 139	Pass	Pass	same								
14 140	Pass	Pass	same								
14 141	Pass	Pass	same								
14 142	Pass	Pass	same								
14 143	Pass	Pass	same								
14 144	Pass	Pass	same								
14 145	Pass	Pass	same								
14 146	Pass	Pass	same								
14 147	Pass	Pass	same								
14 148	Pass	Pass	same								
14 149	Pass	Pass	same								
14 150	Pass	Pass	same								
14 151	Pass	Pass	same								
14 152	Pass	Pass	same								
14 153	Pass	Pass	same								
14 154	Pass	Pass	same								
14 155	Pass	Pass	same								
14 156	Pass	Pass	same								
14 157	Pass	Pass	same								
14 158	Pass	Pass	same								
14 159	Pass	Pass	same								
14 160	Pass	Pass	same								
14 161	Pass	Pass	same								
14 162	Pass	Pass	same								
14 163	Pass	Pass	same								
14 164	Pass	Pass	same								
14 165	Pass	Pass	same								
14 166	Pass	Pass	same								

Striped Bass - Larvae

20th percentile MAY flows

Suitable habitat when

- (1) Mean 50th percentile salinity between 3 and 9 ppt, and
- (2) Mean 10th percentile D.O. >= 4.5 mg/l

I_J	Existing Conditions			Plan6b, 44 ft Depth				Plan6a, 45 ft Depth				Plan6a, 46 ft Depth				Plan6a, 47 ft Depth				Plan6a, 48 ft Depth			
	saltEX20	DOex20	EXISTING20	salt6b2ft20	DO6ft2ft20	P6b2ft20	CHANGE6b2ft20	salt6a3ft20	DO6a3ft20	P6a3ft20	CHANGE6a3ft20	salt6a4ft20	DO6a4ft20	P6a4ft20	CHANGE6a4ft20	salt6a5ft20	DO6a5ft20	P6a5ft20	CHANGE6a5ft20	salt6a6ft20	DO6a6ft20	P6a6ft20	CHANGE6a6ft20
14 132	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 132	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 133	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 133	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 134	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 134	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 135	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 136	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 137	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 138	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same

Striped Bass - Larvae

50th percentile MAY flows

Suitable habitat when

(1) Mean 50th percentile salinity between 3 and 9 ppt, and

(2) Mean 10th percentile D.O. >= 4.5 mg/l

I_J	Existing Conditions			Plan6b, 44 ft Depth				Plan6a, 45 ft Depth				Plan6a, 46 ft Depth				Plan6a, 47 ft Depth				Plan6a, 48 ft Depth			
	saltEX50	DOex50	EXISTING50	salt6b2ft50	DO6ft2ft50	P6b2ft50	CHANGE6b2ft50	salt6a3ft50	DO6a3ft50	P6a3ft50	CHANGE6a3ft50	salt6a4ft50	DO6a4ft50	P6a4ft50	CHANGE6a4ft50	salt6a5ft50	DO6a5ft50	P6a5ft50	CHANGE6a5ft50	salt6a6ft50	DO6a6ft50	P6a6ft50	CHANGE6a6ft50
10 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
11 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
12 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
13 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 131	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 131	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 132	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 132	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 133	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 133	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 134	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 134	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 135	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 136	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 137	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 138	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same

Striped Bass - Larvae

80th percentile MAY flows

Suitable habitat when

(1) Mean 50th percentile salinity between 3 and 9 ppt, and

(2) Mean 10th percentile D.O. >= 4.5 mg/l

I_J	Existing Conditions			Plan6b, 44 ft Depth				Plan6a, 45 ft Depth				Plan6a, 46 ft Depth				Plan6a, 47 ft Depth				Plan6a, 48 ft Depth			
	saltEX80	DOex80	EXISTING80	salt6b2ft80	DO6ft2ft80	P6b2ft80	CHANGE6b2ft80	salt6a3ft80	DO6a3ft80	P6a3ft80	CHANGE6a3ft80	salt6a4ft80	DO6a4ft80	P6a4ft80	CHANGE6a4ft80	salt6a5ft80	DO6a5ft80	P6a5ft80	CHANGE6a5ft80	salt6a6ft80	DO6a6ft80	P6a6ft80	CHANGE6a6ft80
10 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
11 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
12 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
13 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 130	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 131	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 131	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 132	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 132	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 133	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 133	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 134	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
23 134	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 135	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 136	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 137	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same
14 138	Fail	Pass	Fail	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same	Fail	Pass	Fail	same

Striped Bass - Spawning

50th percentile APRIL flows

Suitable habitat when

(1) 90th percentile salinity <= 1 ppt, and

(2) Mean velocity >= 30 cm/s

	Existing Conditions			Plan6b, 44 ft Depth				Plan6a, 45 ft Depth				Plan6a, 46 ft Depth				Plan6a, 47 ft Depth				Plan6a, 48 ft Depth			
I_J	saltEX50	velocityEX50	Existing50	salt6b2ft50	velocity6b2ft50	P6b2ft50	CHANGE6b2ft50	salt6a3ft50	velocity6a3ft50	P6a3ft50	CHANGE6a3ft50	salt6a4ft50	velocity6a4ft50	P6a4ft50	CHANGE6a4ft50	salt6a5ft50	velocity6a5ft50	P6a5ft50	CHANGE6a5ft50	salt6a6ft50	veocityl6a6ft50	P6a6ft50	CHANGE6a6ft50
14 137	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 138	Pass	Pass	Pass	Pass	Pass	Pass	same																

Striped Bass - Spawning

80th percentile APRIL flows

Suitable habitat when

(1) 90th percentile salinity <= 1 ppt, and

(2) Mean velocity >= 30 cm/s

	Existing Conditions			Plan6b, 44 ft Depth				Plan6a, 45 ft Depth				Plan6a, 46 ft Depth				Plan6a, 47 ft Depth				Plan6a, 48 ft Depth			
I_J	saltEX80	velocityEX80	Existing80	salt6b2ft80	velocity6b2ft80	P6b2ft80	CHANGE6b2ft80	salt6a3ft80	velocity6a3ft80	P6a3ft80	CHANGE6a3ft80	salt6a4ft80	velocity6a4ft80	P6a4ft80	CHANGE6a4ft80	salt6a5ft80	velocity6a5ft80	P6a5ft80	CHANGE6a5ft80	salt6a6ft80	velocity6a6ft80	P6a6ft80	CHANGE6a6ft80
14 137	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 138	Pass	Pass	Pass	Pass	Pass	Pass	same																

Shortnose Sturgeon - Juvenile

50th percentile JANUARY flows

Suitable habitat when DO

>= 3.5 mg/l at 90% exceedance (10th %ile),

>=3.0 at 95% (5th percentile), and

>=2.0 at 99% (1 percentile)

Suitable habitat when Max Salinity <= 4 ppt

I_J	Existing Conditions			Plan6b, 44 ft Depth				Plan6a, 45 ft Depth				Plan6a, 46 ft Depth				Plan6a, 47 ft Depth				Plan6a, 48 ft Depth			
	saltEX	Doex	Existing	salt6b2ft	DO6b2ft	P6b2ft	Changed6b2ft	salt6a3ft	DO6a3ft	P6a3ft	Changed6a3ft	salt6a4ft	DO6a4ft	P6a4ft	Changed6a4ft	salt6a5ft	DO6a5ft	P6a5ft	Changed6a5ft	salt6a6ft	DO6a6ft	P6a6ft	Changed6a6ft
14 148	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 149	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 150	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 151	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 152	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 153	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 154	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 155	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 156	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 157	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 158	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 159	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 160	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 161	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 162	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 163	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 164	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 165	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 166	Pass	Pass	Pass	Pass	Pass	Pass	same																

Shortnose Sturgeon - Adults

50th percentile JANUARY flows

Suitable habitat when DO

>= 3.5 mg/l at 90% exceedance (10th %ile),

>=3.0 at 95% (5th percentile), and

>=2.0 at 99% (1 percentile)

Suitable habitat when Max Salinity <= 25 ppt

I_J	Existing Conditions			Plan6b, 44 ft Depth				Plan6a, 45 ft Depth				Plan6a, 46 ft Depth				Plan6a, 47 ft Depth				Plan6a, 48 ft Depth			
	salteexisting	Doexisting	Existing	salt6b2ft	DO6b2ft	P6b2ft	CHANGE6b2ft	salt6a3ft	DO6a3ft	P6a3ft	CHANGE6a3ft	salt6a4ft	DO6a4ft	P6a4ft	CHANGE6a4ft	salt6a5ft	DO6a5ft	P6a5ft	CHANGE6a5ft	salt6a6ft	DO6a6ft	P6a6ft	CHANGE6a6ft
14 166	Pass	Pass	PASS	Pass	Pass	PASS	same																

Shortnose Sturgeon - Adults

August average flows

Suitable habitat when DO

>= 4.0 mg/l at 90% exceedance (10th %ile),

>= 3.0 at 95% (5th percentile), and

>= 2.0 at 99% (1 percentile)

Suitable habitat when Max Salinity <= 10 ppt

I_J	Existing Conditions			Plan6b, 44 ft Depth				Plan6a, 45 ft Depth				Plan6a, 46 ft Depth				Plan6a, 47 ft Depth				Plan6a, 48 ft Depth			
	saltEX	Doex	Existing	salt6b2ft	DO6b2ft	P6b2ft	Changed6b2ft	salt6a3ft	DO6a3ft	P6a3ft	Changed6a3ft	salt6a4ft	DO6a4ft	P6a4ft	Changed6a4ft	salt6a5ft	DO6a5ft	P6a5ft	Changed6a5ft	salt6a6ft	DO6a6ft	P6a6ft	Changed6a6ft
14 153	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 154	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 155	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 156	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 157	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 158	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 159	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 160	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 161	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 162	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 163	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 164	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 165	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 166	Pass	Pass	Pass	Pass	Pass	Pass	same																

Southern Flounder

August average flows

Suitable habitat when

DO >= 4.0 mg/l at 90% exceedance (10th percentile)

Slope <=5%

I_J	Existing Conditions			Plan6b, 44 ft Depth				Plan6a, 45 ft Depth				Plan6a, 46 ft Depth				Plan6a, 47 ft Depth				Plan6a, 48 ft Depth			
	Doex	slopeEX	Existing	DO6b2ft	slope6b2ft	P6b2ft	Change6b2ft	DO6a3ft	slope6a3ft	P6a3ft	Change6a3ft	DO6a4ft	slope6a4ft	P6a4ft	Change6a4ft	DO6a5ft	slope6a5ft	P6a5ft	Change6a5ft	DO6a6ft	slope6a6ft	P6a6ft	Change6a6ft
14 127	Pass	Pass	Pass	Pass	Pass	Pass	same																
23 127	Fail	Pass	Fail	Fail	Pass	Fail	same																
13 128	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 128	Pass	Pass	Pass	Pass	Pass	Pass	same																
23 128	Fail	Pass	Fail	Fail	Pass	Fail	same																
13 129	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 129	Pass	Pass	Pass	Pass	Pass	Pass	same																
23 129	Fail	Pass	Fail	Fail	Pass	Fail	same																
8 130	Fail	Pass	Fail	Fail	Pass	Fail	same																
9 130	Fail	Pass	Fail	Fail	Pass	Fail	same																
10 130	Fail	Pass	Fail	Fail	Pass	Fail	same																
11 130	Fail	Pass	Fail	Fail	Pass	Fail	same																
12 130	Pass	Pass	Pass	Pass	Pass	Pass	same																
13 130	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 130	Pass	Pass	Pass	Pass	Pass	Pass	same																
23 130	Fail	Pass	Fail	Fail	Pass	Fail	same																
14 131	Pass	Pass	Pass	Pass	Pass	Pass	same																
23 131	Fail	Pass	Fail	Fail	Pass	Fail	same																
14 132	Pass	Pass	Pass	Pass	Pass	Pass	same																
23 132	Fail	Pass	Fail	Fail	Pass	Fail	same																
14 133	Pass	Pass	Pass	Pass	Pass	Pass	same																
23 133	Fail	Pass	Fail	Fail	Pass	Fail	same																
14 134	Pass	Pass	Pass	Pass	Pass	Pass	same																
23 134	Fail	Pass	Fail	Fail	Pass	Fail	same																
14 135	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 136	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 137	Pass	Pass	Pass	Pass	Pass	Pass	same																
14 138	Pass	Pass	Pass	Pass	Pass	Pass	same																