

Agency Coordination and Public Involvement Report

PREPARED FOR: Tulsa County
PREPARED BY: CH2M HILL
COPIES: File
DATE: February 10, 2010

Introduction

Tulsa County, as part of a master plan for the Arkansas River corridor (Burgess, 2004; Guernsey et al., 2005), is undertaking an improvement project on the Arkansas River. The primary goals of the overall project are to enhance economic development, increase connectivity between the river and surrounding communities, improve least tern habitat, improve recreational opportunities, and improve the function of the river system itself. The conceptual project components are described in detail in the Final Draft Technical Memorandum (TM) entitled *Baseline Project Summary for the Arkansas River Corridor Project* (CH2M HILL, 2009). Key components include:

- Design of a new Sand Springs low water dam, pedestrian bridge, and amenities
- Design of modifications to Zink Dam and lake with whitewater features
- Design of a new South Tulsa/Jenks low water dam, pedestrian bridge, and amenities
- Design of bank stabilization and habitat improvements in selected areas
- Review and research that prepares for the development of a National Environmental Policy Act (NEPA) document (Environmental Assessment [EA] or Environmental Impact Statement)

The purpose of this Technical Memorandum is to document coordination with agencies and public involvement processes and comments received during public meetings held regarding the Phase III Tulsa County Arkansas River Corridor Projects.

Public Involvement

Continuing the intensive public involvement processes of Phases I and II of the project, public meetings were held during Phase III of the project. Meetings included public scoping meetings held during September 2009, Arkansas River Corridor Master Plan Advisory Committee meetings and meetings of the Phase III Stakeholders Committee.

Public Scoping Meetings (September 2009)

Three public scoping meetings organized by the Local Project Sponsors were held during September in the cities of Jenks, Sand Springs and Tulsa. A public notice was published in the Tulsa World on September 1, 2009 regarding the scoping meetings scheduled for September 16 and 17, 2009. To reach a broader audience, the Project Team also released a press release announcing the meetings and inviting public participation. Appendix A includes verification of a compliant public notice publication. The purpose of the meetings was to inform the public of the project's current status and recommendations for future studies, and to request input that would be incorporated into future technical studies and an Environmental Summary Report. A brief meeting summary follows for each meeting.

TULSA COUNTY ARKANSAS RIVER CORRIDOR PUBLIC SCOPING MEETING - JENKS

A meeting was held on Wednesday September 16, 2009 at 5:30 pm in the Jenks City Hall. Five (5) members of the public signed the written sign-in sheet; however, written comments reflect attendance by others not on the sign in sheet. After a brief presentation regarding the current phase of the project, attendees participated in public break-out sessions. Written comments regarding the meeting were provided. Please see the Comment Matrix. Appendix B has a copy of the sign in-sheet, written comments and other meeting materials.

TULSA COUNTY ARKANSAS RIVER CORRIDOR PUBLIC SCOPING MEETING - SAND SPRINGS

A meeting was held on Thursday September 17, 2009 at 5:30 pm in the Tulsa City/County Downtown Library. Seven (7) members of the public signed the written sign-in sheet. After a brief presentation regarding the current phase of the project, attendees participated in public break-out sessions. Written comments regarding the meeting were provided. Please see the Comment Matrix. Appendix C has a copy of the sign in-sheet, written comments and other meeting materials.

TULSA COUNTY ARKANSAS RIVER CORRIDOR PUBLIC SCOPING MEETING - TULSA

A meeting was held on Thursday September 17, 2009 at 1:30 pm in the Tulsa City/County Downtown Library. Ten (10) members of the public signed the written sign-in sheet. After a brief presentation regarding the current phase of the project, attendees participated in public break-out sessions. Written comments regarding the meeting were provided. Please see the Comment Matrix. Appendix D has a copy of the sign in-sheet, written comments and other meeting materials.

Public Comments Received During Scoping Meetings.

During the three public scoping meetings held September 16 and 17, 2009, numerous comments and questions were received from members of the public. The thirty-six (36) comments as well as the project team's responses to those comments are summarized in Table 1 attached to this technical memorandum. The majority of the comments addressed the long-term vision for the Arkansas River Corridor rather than Phase III of the Corridor plan which is a smaller set of projects. No anticipated changes to the technical studies are anticipated.

Arkansas River Corridor Master Plan Advisory Committee

The Arkansas River Corridor Master Plan Advisory Committee, formed to guide the planning and studies associated with the corridor Master Plan, met periodically since the project's inception to provide guidance and feedback during project development. The Advisory Committee includes a broad group of stakeholders and project sponsors potentially affected by Arkansas River Corridor Projects. Members include elected officials, local and regional governments, state and federal resource agencies, stakeholder groups and other members.

The Advisory Committee continued to meet during 2009 to review studies, conceptual designs and other information related to the project. The input of local, state and federal interests was critical to the study's progress, providing an opportunity to consult with agencies early in the planning process.

Stakeholder Committee and Other Public Information/Involvement Activities

A Stakeholder Committee comprised of representatives from the cities of Jenks, Sand Springs and Tulsa, Tulsa County, River Parks Authority and the Indian Nations Council of Governments met periodically during 2009 to provide guidance for the scope of technical work, and to review the results of the studies. Stakeholder committee meetings were held on August 4, 2009, August 20, 2009 and December 15, 2009 to discuss potential project alternatives. Additionally, a project Website was established to provide information to project participants and sponsors regarding the Phase III efforts.

Agency Coordination

Local, state and federal agencies have involved with the Arkansas River Corridor Project since its inception. During this phase of the project planning and development, the involvement has continued. Coordination with the various resource agencies has included review of technical studies, model results and conceptual designs. The Project Team has held meetings and workshops with key agencies including:

- City of Tulsa
- Indian Nations Council of Governments
- Levee District 13- Jenks
- Oklahoma Department of Environmental Quality
- Oklahoma Department of Wildlife Conservation
- Tulsa County
- US Army Corps of Engineers
- US Economic Development Agency
- US Fish and Wildlife Service
- River Parks Authority

In correspondence dated July 6, 2009, the project team forwarded technical memoranda regarding least tern habitat and fish passage design elements associated with the project to the Oklahoma Department of Wildlife Conservation and the US Fish and Wildlife Service. No official responses to the memoranda were received from the either agency. The project team

also coordinated with local, state and federal agencies during an Agency Coordination Workshop (March 2009), participation in the Tulsa District (USACE) Interior Least Tern Committee 2009 Pre-season Meeting in Tulsa, Oklahoma (May 20, 2009) and via informal telephone conversations. As noted in the previous discussion, agencies have also been involved in the project through membership on the Arkansas River Corridor Master Plan Advisory Committee.

TABLE 2

Public Comment Summary

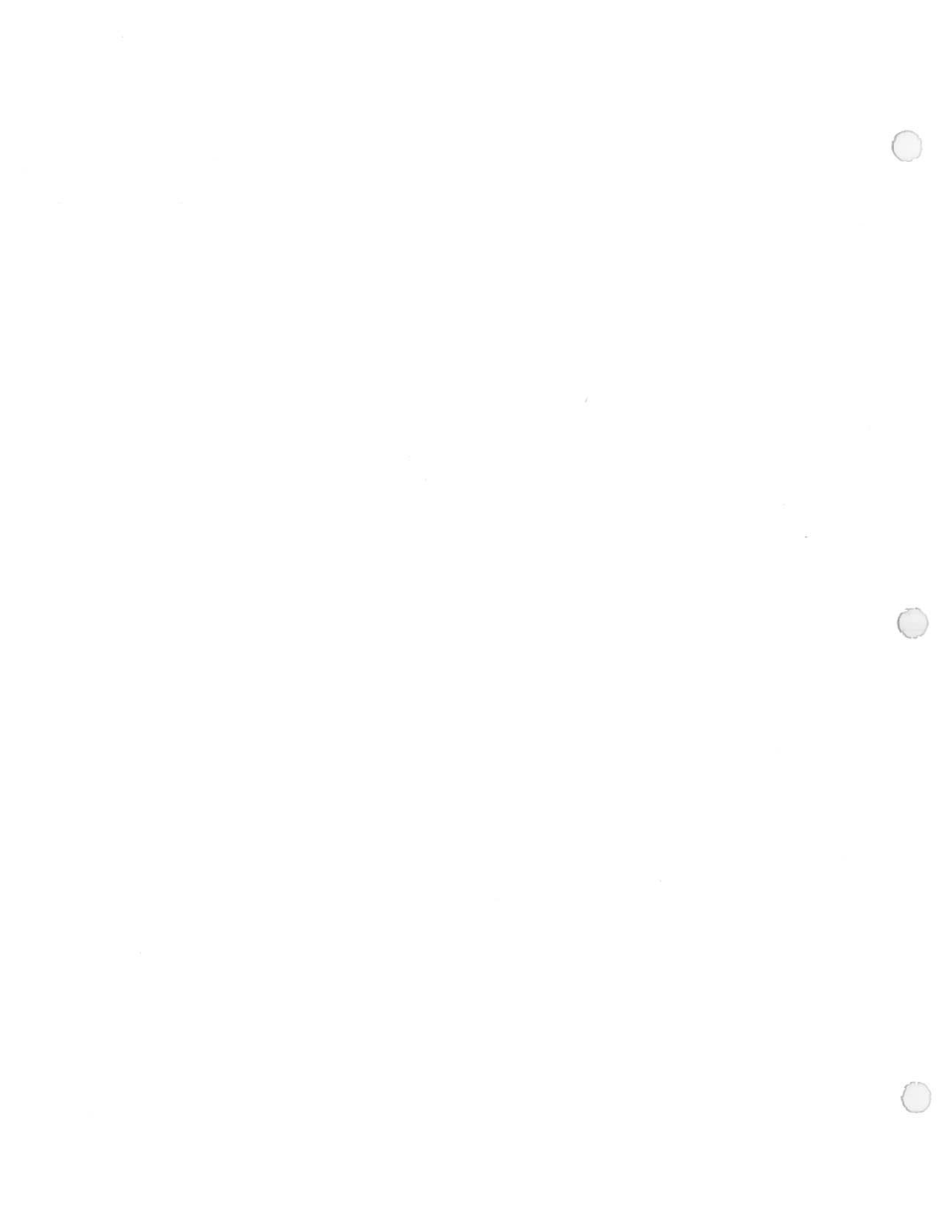
Date	Comment Received	Commenter	Comment	Response
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	Brent Isaacs, AICP	Need to keep fountain at 31st Street pedestrian bridge	Thank you for the comment. This phase of the project does not include relocation of the fountain at 31st Street pedestrian bridge.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	Brent Isaacs, AICP	Need marina and area for commercial development at Zink	Thank you for the comment. Construction of a marina is not envisioned as part of this phase of the project.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	Brent Isaacs, AICP	Marina/water taxi area should be located adjacent to commercial area for Jenks Lake	Thank you for the comment. Construction of a marina is not envisioned as part of this phase of the project.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	Brent Isaacs, AICP	Bigger marina is needed at Sand Springs, maybe on an existing steel plant site to promote redevelopment should plant close permanently	Thank you for the comment. Construction of a marina is not envisioned as part of this phase of the project.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	Brent Isaacs, AICP	Dams should allow passage of boats/water taxis up/down river when water levels allow	Thank you for the comment. Linkages and mobility are key aspects of the conceptual project objectives.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	Brent Isaacs, AICP	Consideration should be given to moving Riverside Drive east near 31st/Blair Estate to increase are for commercial development	Thank you for the comment. This phase of the project does not include street relocation.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	Mia H****	I have over 30-years experience flying hang gliders and am from this area. I am certain anywhere along the Arkansas River from Keystone to 3 Forks at Muskogee we have an opportunity to create what I will refer to as Kitty Hawk Central. Anywhere the elevated bank meets the sand bar- with minimum impact we can create Hang Gliding and Para Gliding training sites that will be a continuous draw of spectators and flyers learning to fly.	Thank you for the comment. Consideration will be given to many forms of recreation as the project progresses.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	James W. Smith, Jr.	It looks like there are several area possible dam area designs. I believe it is very important to have boat access over or around the dams. Isolating the lake areas would limit movement up and down the river, limiting potential economic development	Thank you for the comment. Linkages and mobility are key aspects of the conceptual project objectives.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	Don Lehmbeck	Do you have any guess about a timeline for funding completion and construction of the dams?	The current timeline is projected to be 5-8 years. The actual schedule will be influenced by available funding.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	unsigned written comment	Where will commercial development along the river be located?	During this phase of the project, an overall concept for potential development has been developed. Land use and zoning decisions will be made by local governments.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	unsigned written comment	How much of the cost will be borne by the Tulsa County taxpayers?	Funding participation levels of project sponsors at the local level have not been determined.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	unsigned written comment	What will the speed or flow of the river be to allow safe boating for adults and children?	Public safety is an important consideration for this project. Flows will be managed to meet public safety, ecosystem restoration and fish passage and recreation objectives.
16-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Jenks	unsigned written comment	Is commercial development going to be around on both sides of river and where?	During this phase of the project, an overall concept for potential land uses has been developed. Land use and zoning decisions will be made by local governments.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Sand Spring	Ray and Emile Tucker	Fischer Creek - own 40 acres. Would like water to back up into Fischer Creek for development of marina or park for city	Thank you for the comment.

Date	Comment Received	Commenter	Comment	Response
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Sand Spring	unassigned written comment	I think this project merits significant public involvement, for the sake of improving the environment itself, river, as well as for the quality of life, public recreation, and economic development it will afford. It will help grow the state, federal and local tax base over time, helping create a return on the public investment, as it triggers private sector development.	Thank you for the comment. The Project Sponsors appreciate your support and intend to keep the public informed and involved.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Sand Spring	Jeannie Kavach	We need commercial access to the river. Please take this into consideration. We do not need more parks. We need to allow commercial vendors to build commercial boat rental facilities on park property.	Thank you for your comment. This phase of the project does not entail establishing vendor contracts.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Sand Spring	Jeannie Kavach	We need to look at roads in and out of parks. Circulation is critical.	This phase of the project does not entail road design and construction.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Sand Spring	Jeannie Kavach	I would be happy to serve on any board	Thank you for your interest in the project.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Sand Spring	R.L. Woody Baldwin	Do you envision a cooperative (partnership) with Muskogee Creek Nation or conflict of interest?	Project Sponsors seek cooperative relationships with all stakeholders.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Sand Spring	Philip Pugh	I would suggest self-service locks on all three dams. Would allow boaters to navigate the entire length of the lake/river. Dinner cruises, water taxis, excursions of all kinds.	Consideration of public safety, linkages and mobility will be given to the design of the locks.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Sand Spring, via email Sept 21	Dewey Miller	I certainly enjoyed listening to everything you said about the water quality of the Arkansas River. I might also add that I thought each presenter was articulate and well informed! However, because of the many complex issues and the usage of new terms I got confused between what is taking place and what might take place	Thank you for the kind words. The project is at the conceptual level; a preferred project has not been determined. Thus, ideas and concepts have been identified for study and project formulation. The initial project would include: <ul style="list-style-type: none"> • Design of a new Sand Springs low water dam, pedestrian bridge, and amenities • Design of modifications to Zink Dam and lake with whitewater features • Design of a new South Tulsa/Jenks low water dam, pedestrian bridge, and amenities • Design of bank stabilization and habitat improvements in selected areas
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Sand Spring, via email Sept 21	Dewey Miller	Let me explain, if some clearer time frames could have been attached to the visuals/presentations it would have helped me understand. Another words, I couldn't understand how these idyllic visuals would be possible without a more pollution free river, and a good example of how I got confused can be seen in Friday's Tulsa World. Hence, it might help if people knew more about the many environmental safeguards and regulatory agencies that are contributing to improving river water quality so economic development can proceed.	Thank you for your comments. The project implementation schedule has not been finalized. The Project Team will work to provide additional information to the public regarding regulatory processes.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	David Reid	Best of luck - we need to do what Wichita, KS, Pueblo, CO, Salida, CO, and Buena Vista CO have done develop our riverfront for both recreational and retail use - Best wishes	Thank you for the comment and support of the project.

Date	Comment Received	Commenter	Comment	Response
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	Ralph Marler	What if a private development conflicts with initial design plans? i.e., major retail - residential overloads environment (south of Jenks) (more pollution) i.e., steel mill in SS closes leaving major area open for who knows what?	During this phase of the project, an overall concept for potential development has been developed. Land use and zoning decisions will be made by local governments.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	Ralph Marler	Public access to all areas of river even with private development up to river's edge?	During this phase of the project, an overall concept for potential land use has been developed. Land use and zoning decisions will be made by local governments.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	Ralph Marler	Will designs look at best case/worst case scenarios so developers know what is expected, or restricted to them?	While the comment is appreciated, the meaning is not clear.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	A. Sylvester	The OK Nature Conservancy has specifically addressed the Arkansas River (between 11 th and 9 th Streets) as a Least Tern Preserve. This preserve was established to protect this endangered bird and more specifically, it nesting habitats between May and August. Please describe how a "permanent" flooding of this area will avoid destruction of this preserve and the nesting areas	Thank you for the comment. It is anticipated that the proposed project may increase habitat suited for the least tern.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	A. Sylvester	Citizens of Tulsa and Tulsa County voted against construction of the proposed low water dams. Why is this project proceeding?	The project is in the planning phase at this time.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	A. Sylvester	Although voted down, why is money for this project being diverted from Vision 2025 funds which could be used for other projects supported by Tulsa residents, e.g. streets?	The project is in the planning phase at this time.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	Berry White	What are plans for fish and egg migration during building of dams? Sand bars during construction of dams?	Fish passage is a critical issue during design. Detailed construction plans are not yet developed; consideration will be given to this issue during design. It is anticipated that design concepts may be finalized within the next few years. The exact schedule will be influenced by availability of funding. Enforcement of water quality regulations is beyond the jurisdiction and scope of this project.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	Bob Kendall	Problems: 1. Water is not clean enough to eat fish caught or suitable for swimming. Do you have the authority to eliminate source of pollution?	Addressing wastewater treatment plant improvements is beyond the scope of this project.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	Bob Kendall	2. You will never have a "Jenks" type area unless you fix the slench from the 51 st Street sewer plant. Apparently the feds have mandated it fixed but Tulsa has done nothing about it. Drive across the 51 st Street Bridge with the wind from the south and see if the smell makes you want to stop and spend \$50 at a fine restaurant.	Addressing wastewater treatment plant improvements is beyond the scope of this project.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	Bob Kendall	3. What is the cost to fix the sewage plant?	Enforcement of water quality regulations is beyond the jurisdiction and scope of this project.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	Bob Kendall	4. What is the cost to find the source of the water pollution?	Enforcement of water quality regulations is beyond the jurisdiction and scope of this project.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	Bob Kendall	5. You need to minimize the Section 8 housing adjacent to the area. You have to consider safety after dark.	Addressing housing considerations is beyond the jurisdiction and scope of this project.
17-Sep-09	Tulsa County Arkansas River Public Scoping Meeting - Tulsa	Bob Kendall	6. Is there parking space provided at bank access points?	Parking requirements are being considered for those components proposed as part of this Phase, e.g., parking for the White Water Park at Zink dam.



Appendix A Public Notice and Press Release



TULSA WORLD

WORLD PUBLISHING COMPANY
P.O. Box 1770 Tulsa, Oklahoma 74102-1770

Ad number: 6921542

PROGRAM MANAGEMENT GROUP, L
601 S BOULDER AVE
SUITE 1200 ATTN GAYLON PINC
TULSA OK. 74119

PUBLISHED in the Tulsa World,
September 1, 2009, Tulsa, OK
Meeting Announcement
Tulsa County is hosting a "Scoping Meeting" to provide opportunity for public input on the preliminary evaluation of potential effects and alternatives for the Arkansas River Corridor Project based on the previously adopted Arkansas River Corridor Master Plan (INCOG, 2005). Tulsa County is moving forward with the development of the Arkansas River Corridor Project and preliminary alternatives for further evaluation. The meeting schedules have been set in the following order: Wednesday, September 16, 2009 at the Jenks City Hall Council Chambers starting at 5:30 p.m.; Thursday, September 17 at the Tulsa Central Library Acrosses Auditorium starting at 1:30 p.m.; and Thursday, September 17 at the Casa Community Center in Sand Springs starting at 5:30 p.m. The meeting will provide an opportunity for the general public, agencies, stakeholders and other interested parties to learn more about the proposed project and to suggest issues, concerns and topics to be considered in future evaluations. For more information about the Project and Meeting, contact Gaylon Pinc, Program Management Group, at 918-582-7593.

PROOF OF PUBLICATION

TITLE _____ PROGRAM MANAGEMENT GROUP, L _____

STATE OF OKLAHOMA, }
COUNTY OF TULSA, } SS.

AFFIDAVIT:

I, WANDA HALL, of lawful age, being duly sworn, upon the oath deposes and says that he / she is the CLERK of TULSA WORLD, a daily newspaper printed in the City of Tulsa, County of Tulsa, State of Oklahoma, and a bonafide paid general circulation therein, printed in the English language, and that the notice by publication, a copy of which is here to attached, was published in said newspaper for

1 day(s), the first publication being on the 1st day of September, 2009 and

the last day of publication being on the 1st day of September, 2009,

and that said newspaper has been continuously and uninterruptedly published in said county during the period of more than One Hundred and Four (104) weeks consecutively, prior to the first publication of said notice, or advertisement, as required by Section one, Chapter four, Title 25 Oklahoma Session Laws, 1943, as amended by House Bill No. 495, 22nd Legislature, and thereafter, and complies with all of the prescriptions and requirements of the laws of Oklahoma. (The advertisement above referred to is a true and printed copy. Said notice was published in all editions of said newspaper and not in a supplement thereof.)

The advertisement above referred to, a true and printed copy of which is hereto attached, was published in said NEWSPAPER on the following dates, to-wit: 9/1/09

Said notice was published in the regular edition of said newspaper and not in a supplement thereof.

Publishing Fee \$ 177.22
Notary Fee
Affidavit
TOTAL \$ 177.22

Wanda Hall (Signature)

Subscribed and sworn to before me this 1 day of September, A.D., 2009

My commission expires 10/21/09
Donna S Pennick
Notary Public

DONNA S. PENNICK
NOTARY PUBLIC - STATE OF OKLAHOMA
My Commission Expires 10/21/09
COMMISSION #01016480

Board of County Commissioners
Tulsa County, Oklahoma

P.O. # 03-30.036-02

DATE: AUGUST 31, 2009

Bill To: Board of County Commissioners, Tulsa County, OK
c/o PMg - Program Management Group, LLC
Attention: Mr. Gaylon Pinc
601 S. Boulder Ave, Suite 1200
Tulsa, OK 74119

Phone 918.582.7595 Fax 918.587.4763
ggpinc@pmgtulsa.com

VENDOR Tulsa World
315 S. Boulder Ave.
Tulsa, OK 74103
Fax Phone: 918 583 3550
Phone Fax: 918 582 0921

SHIP n/a
TO

SHIPPING METHOD	SHIPPING TERMS	DELIVERY DATE
n/a	n/a	September 1, 2009

QTY	PART #	DESCRIPTION	JOB	UNIT PRICE	LINE TOTAL
		Public Notice - Arkansas River Corridor Notice of Public Scoping Meetings Notice to run: Tuesday, September 1, 2009 Confirming Only to Melissa Marshall DO NOT DUPLICATE			177.22
SUBTOTAL					177.22
SALES TAX					Exempt
TOTAL					177.22

Please send two copies of your invoice.

Enter this order in accordance with the prices and specifications per the quotation referenced above; the terms, and delivery method listed above.

Please notify us immediately if you are publish as specified.

Send all correspondence to:
Mr. Gaylon Pinc

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Tulsa, OK 74119
(918) 582-7595

ggpinc@pmgtulsa.com

Linda R. Dorrell 8/31/09
Authorized by Linda R. Dorrell,
Purchasing Director, Tulsa County
Date 8/21/2009

PUBLISHED in the Tulsa World,
September 1, 2009, Tulsa, OK

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BOARD OF COUNTY COMMISSIONERS
Tulsa County Administration Bldg – 500 South Denver
Tulsa, Oklahoma 74103 (918) 596-5000

FOR IMMEDIATE RELEASE

CONTACT: Terry A. Simonson
tsimonson@tulsacounty.org
596 5018 (o) 724 3005 (c)

PRESS RELEASE

COUNTY TO HOST SERIES OF PUBLIC MEETINGS TO DISCUSS RIVER PROJECTS

TULSA, Okla. (September 14, 2009) – Tulsa County will hold a series of public meetings to discuss a portion of the Arkansas River Master Plan currently under implementation on September 16th and 17th.

Presenters will discuss the overall Plan, which spans the Arkansas River from the Keystone Dam to Jenks and includes low water dam construction and rehabilitation, ecosystem restoration, shoreline stabilization and recreational uses.

The purpose of the meetings is to inform the public of the current status of the projects and recommendations for future studies, and request input that would be incorporated in to the Environmental Summary Report.

Tulsa County Commissioners Karen Keith and Fred Perry will be on hand to discuss the project and answer questions. Engineers and planners will also be available to discuss technical specifications and aspects of the project.

Funding of this portion of the Master Plan is provided by Vision 2025 and federal dollars.

Meeting locations and times are as follows:

Jenks/South Tulsa – Wednesday, September 16th at 5:30p.m. at the Jenks City Council Meeting Room – 211 North Elm, Jenks.

Tulsa – Thursday, September 17th at 1:30 p.m. at the Tulsa Central Library Aaronson Auditorium, 400 Civic Center Plaza, Tulsa.

Sand Springs – Thursday, September 17th at 5:30 p.m. at the Case Community Center, 1050 West Wekiwa Road, Sand Springs.

Contacts: Terry A. Simonson – Tulsa County – 918 724 3005

Michael Willis – Schnake Turnbo Frank – 918 630 5952

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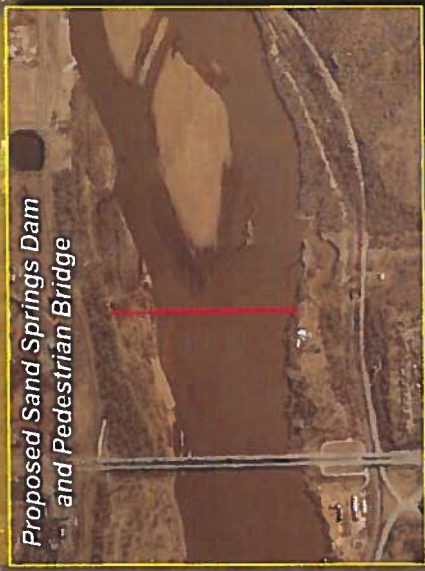


**Appendix E Presentation Materials Used in
September 2009 Scoping Meetings**



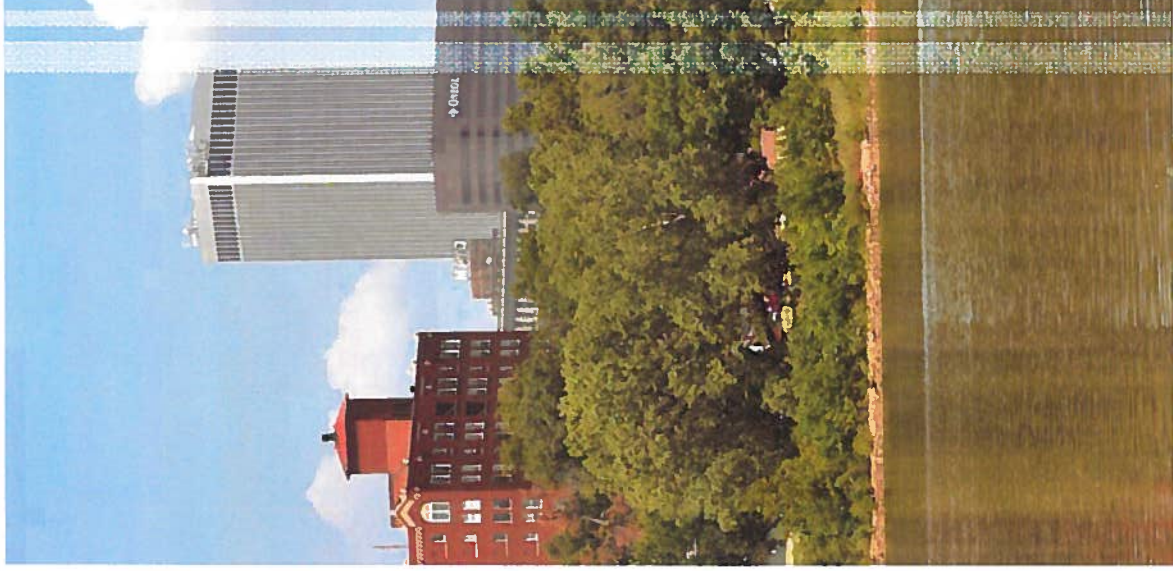
Arkansas River Corridor Projects

Low Water Dam Locations





Project Opportunities



- New Shoreline
- Water Access
- Safety
- Beatification
- Water Related Activities



CH2MHILL



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GEOTECHNICAL INVESTIGATION BY EXPERTS



McLaughlin Whitewater

Sand Springs

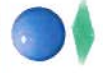
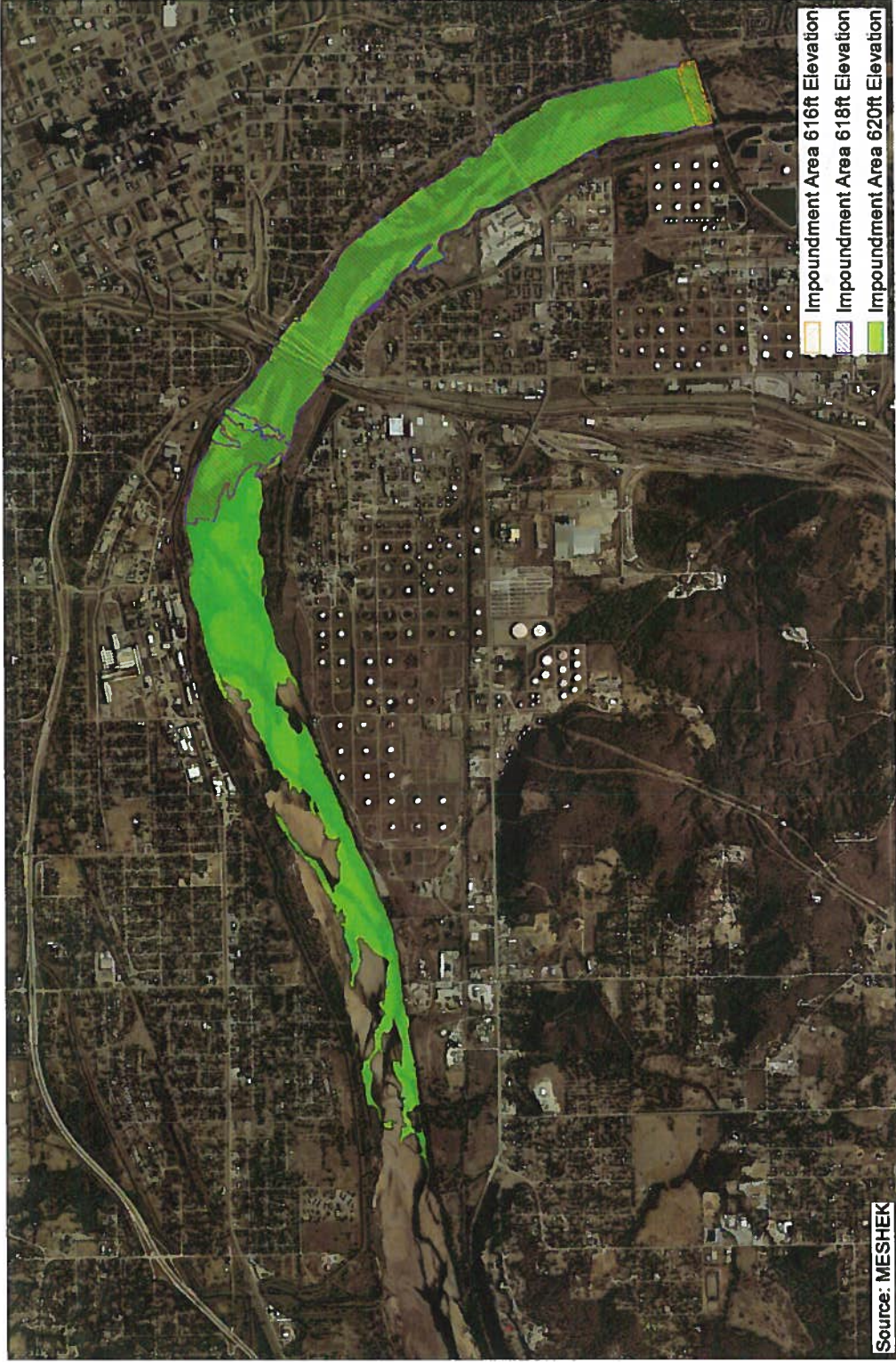


CH2MHILL



McLaughlin Whitewater
CONSULTANTS

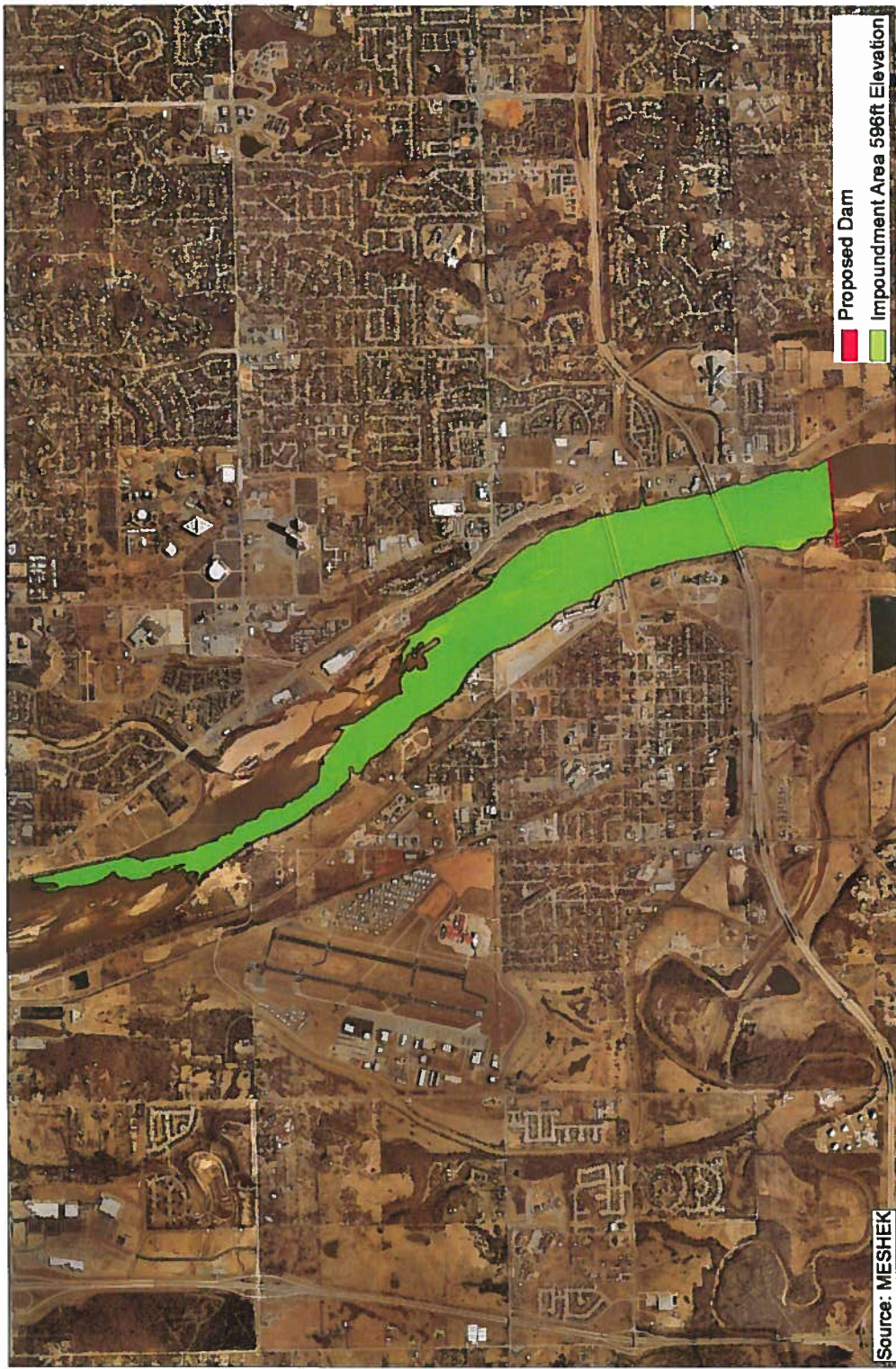
Tulsa - Zink



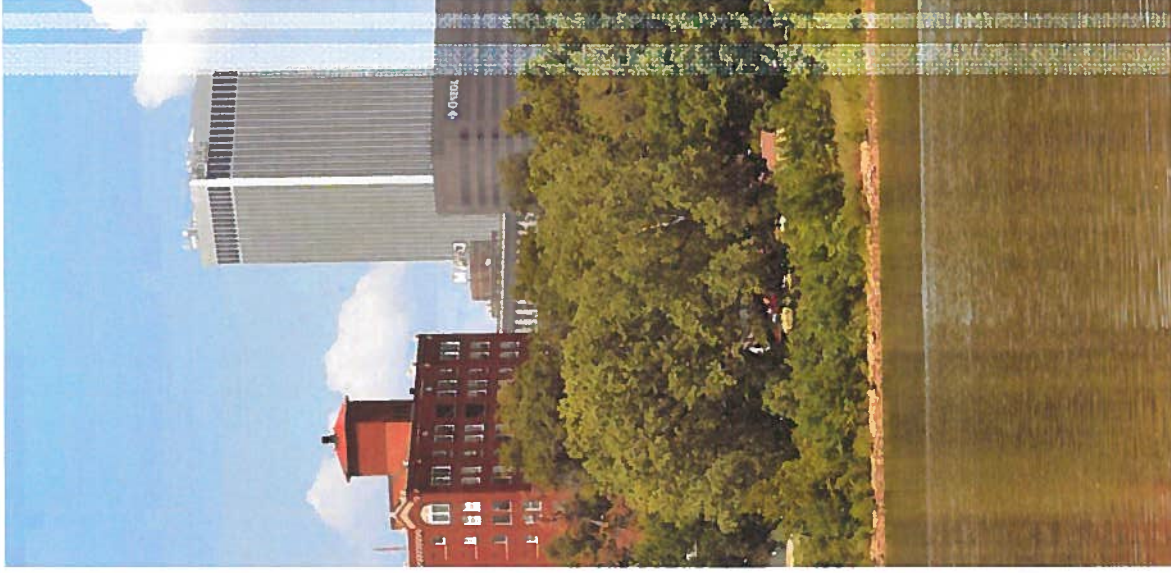
CH2MHILL



South Tulsa / Jenks



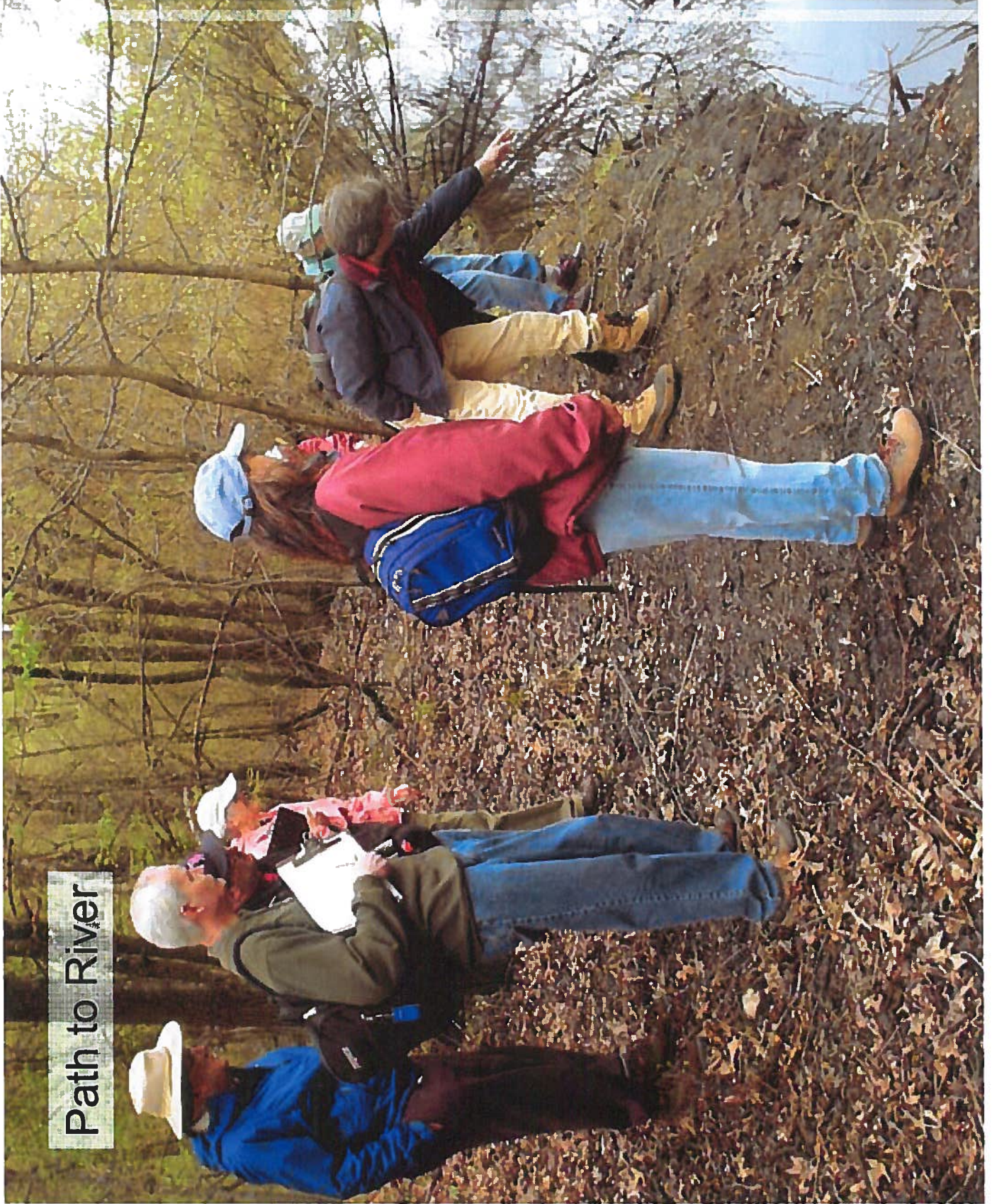
RIVER'S EDGE



- SOFT/NATURAL EDGE PUBLIC ACCESS
- HARD/URBAN EDGE PUBLIC ACCESS



SOFT/NATURAL EDGE—PUBLIC ACCESS



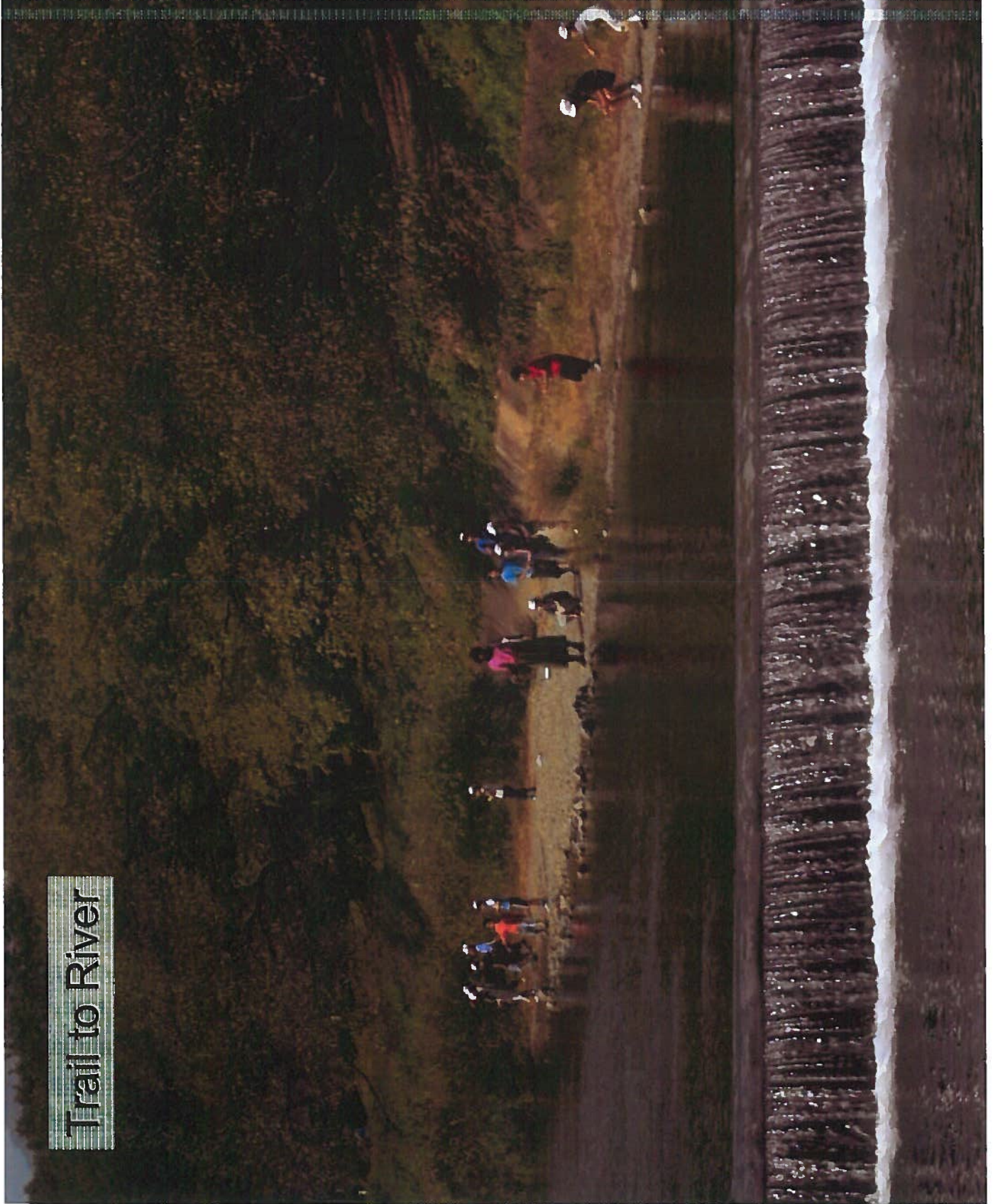
Path to River

SOFT/NATURAL EDGE—PUBLIC ACCESS

Path to River

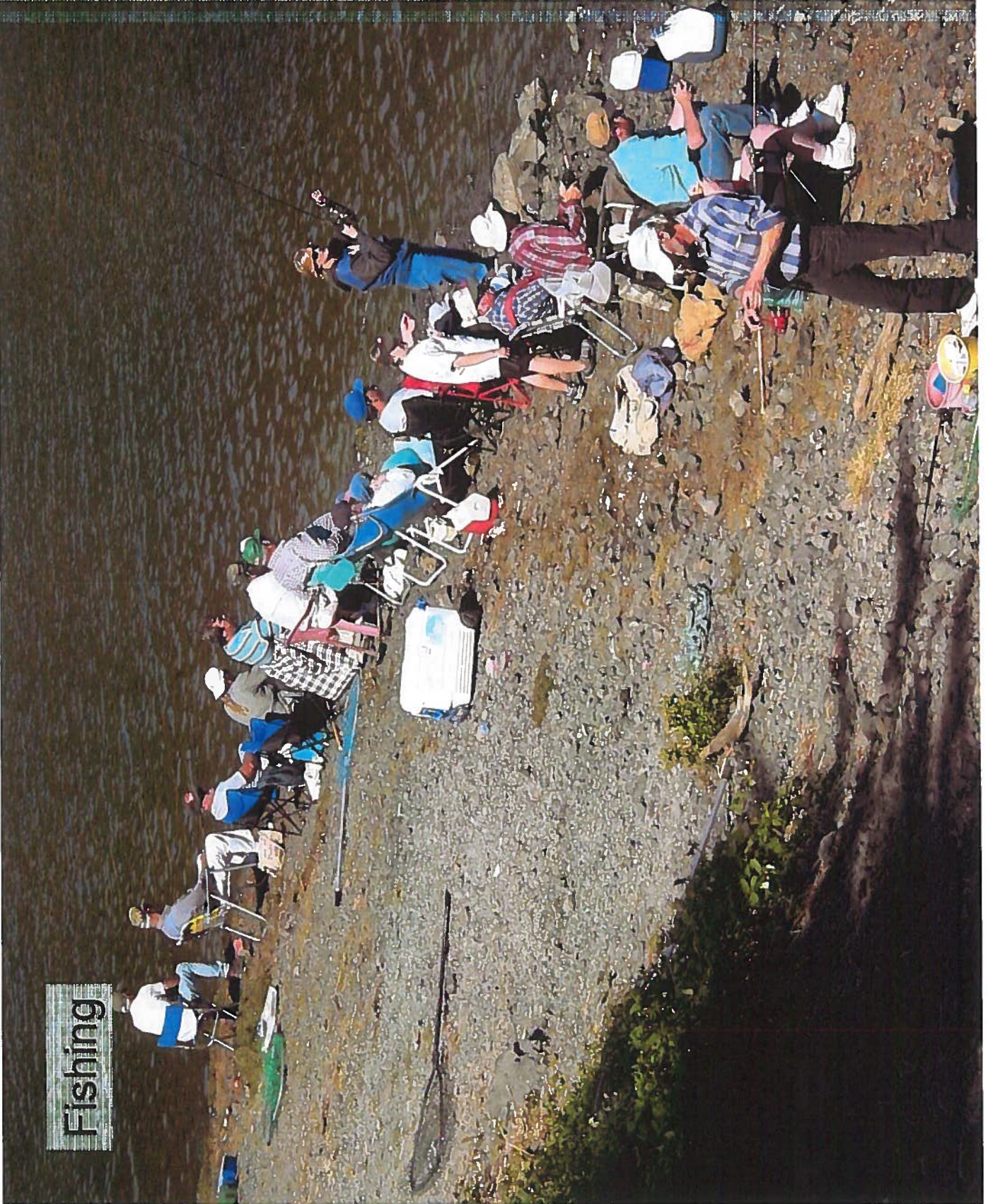


SOFT/NATURAL EDGE—PUBLIC ACCESS



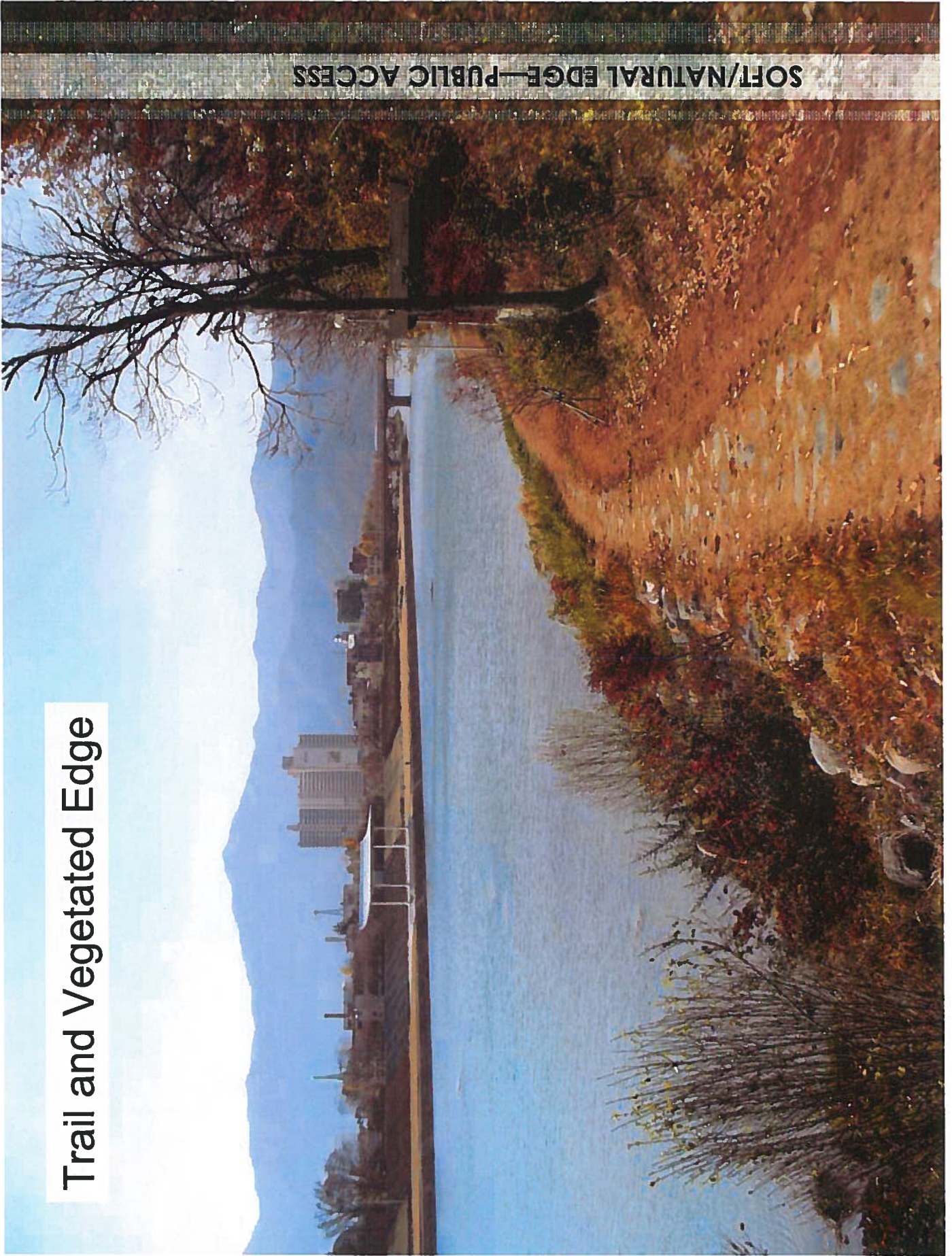
Trail to River

SOFT/NATURAL EDGE—PUBLIC ACCESS



Fishing

Trail and Vegetated Edge



SOFT/NATURAL EDGE—PUBLIC ACCESS

SOFT/NATURAL EDGE—PUBLIC ACCESS



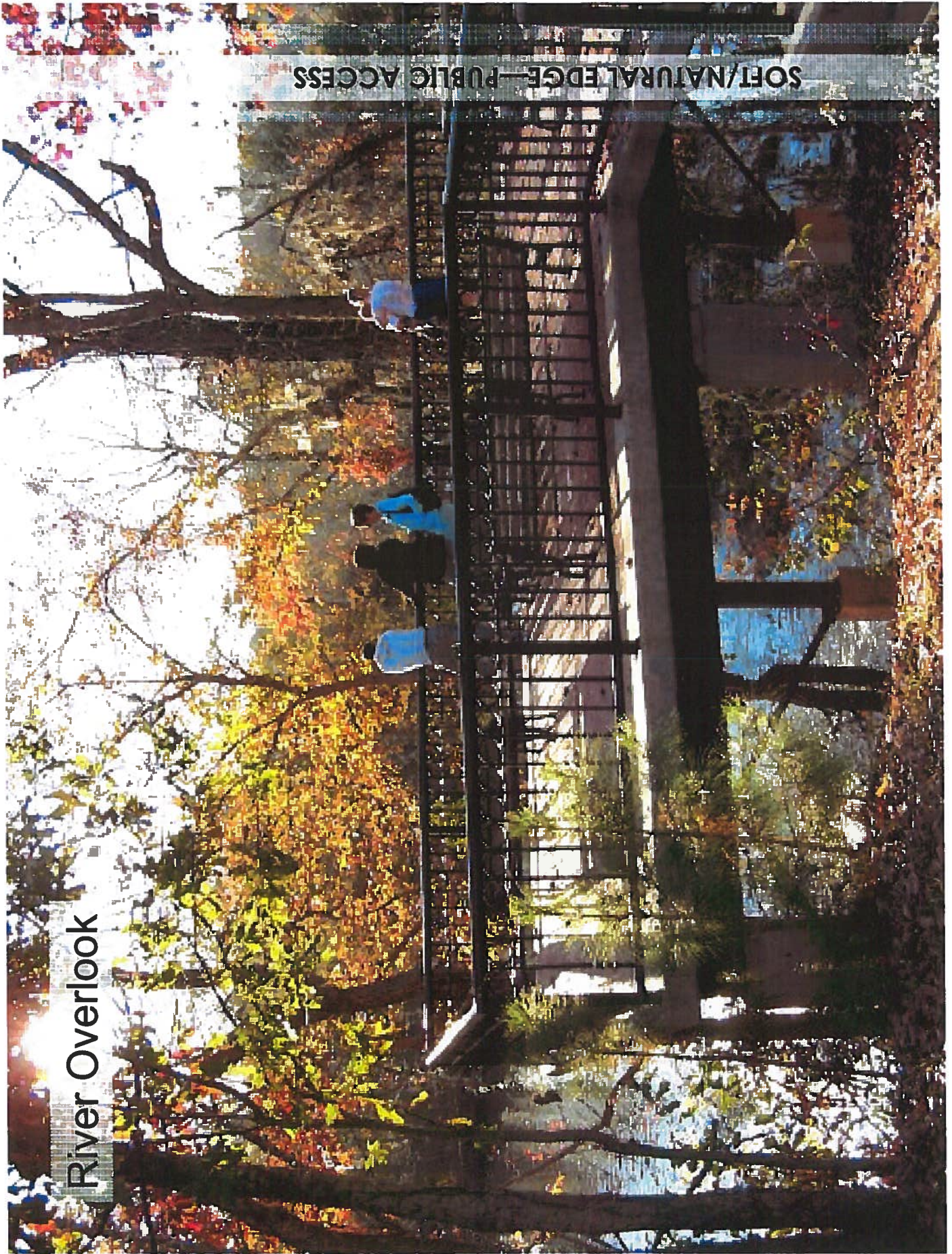
Path to River

SOFT/NATURAL EDGE—PUBLIC ACCESS



SOFT/NATURAL EDGE—PUBLIC ACCESS

River Overlook



River Paved Trail



SOFT/NATURAL EDGE—PUBLIC ACCESS

RIVER'S EDGE



□ SOFT/NATURAL EDGE PUBLIC ACCESS

□ HARD/URBAN EDGE PUBLIC ACCESS



CH2MHILL



LAMB PLAN
CONSULTANTS
INCORPORATED



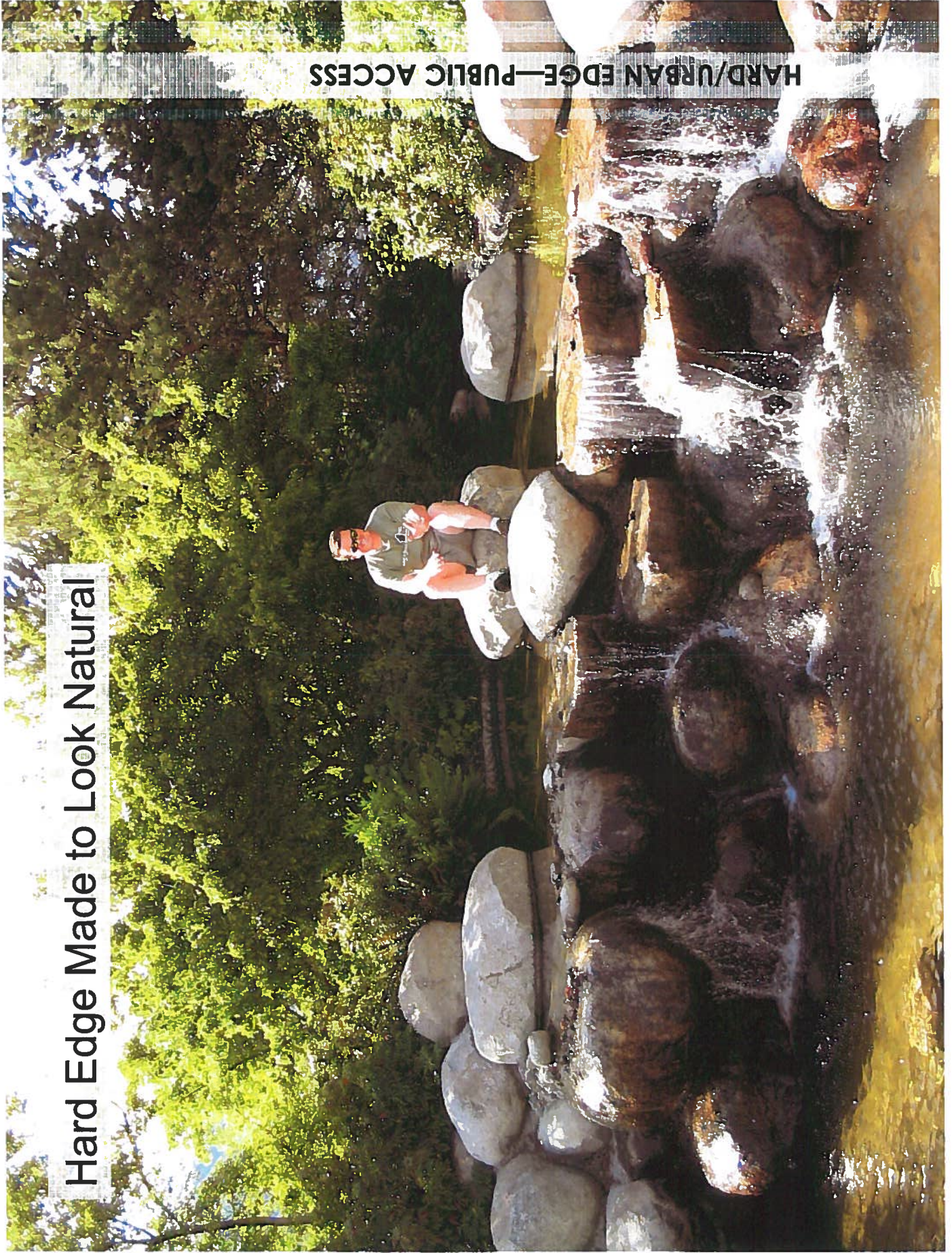
MESHEK
DIV. & WATER RESOURCE ENGINEERING
GEORGRAPHIC INFORMATION SYSTEMS



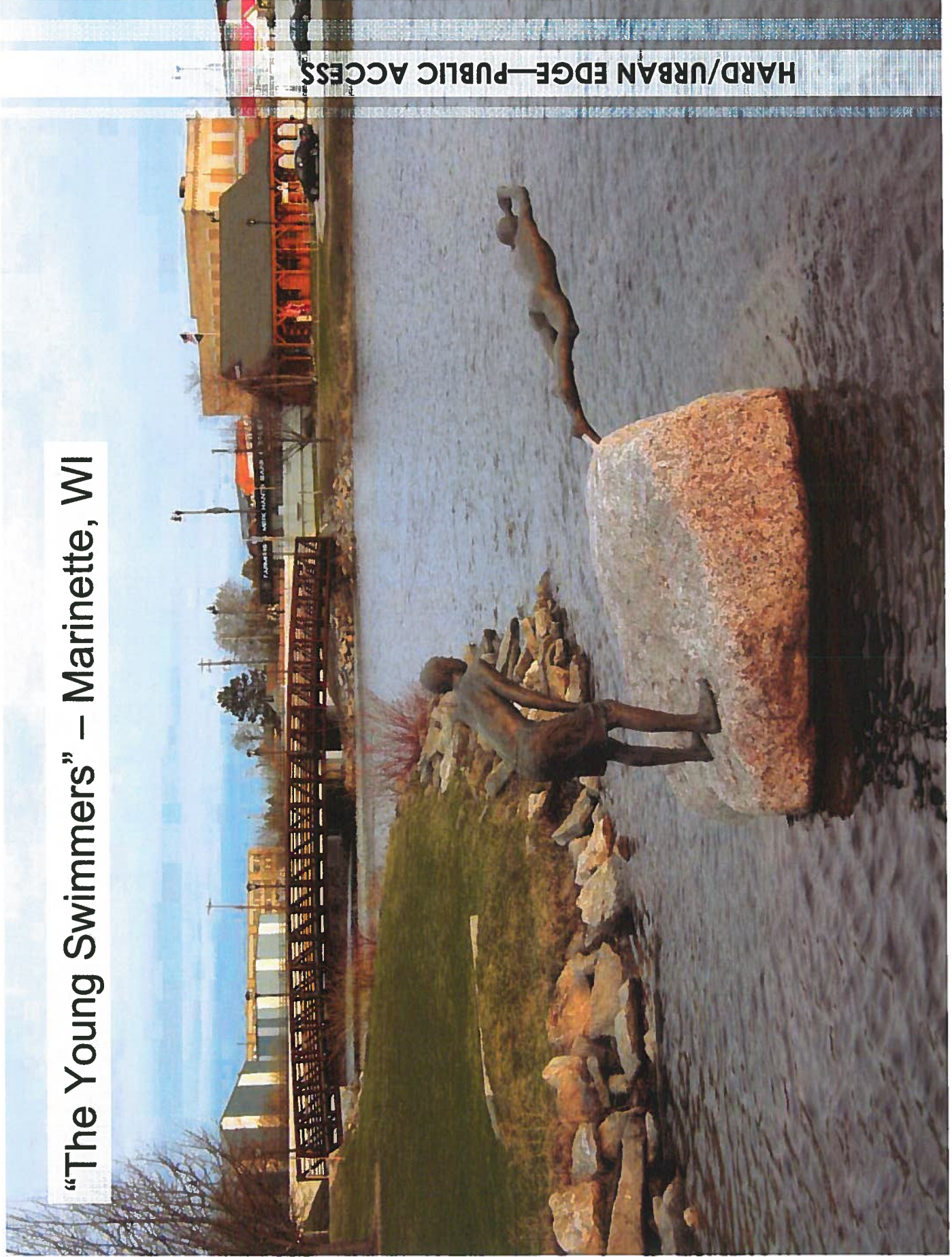
McLaughlin Whitewater
GROUP

Hard Edge Made to Look Natural

HARD/URBAN EDGE—PUBLIC ACCESS

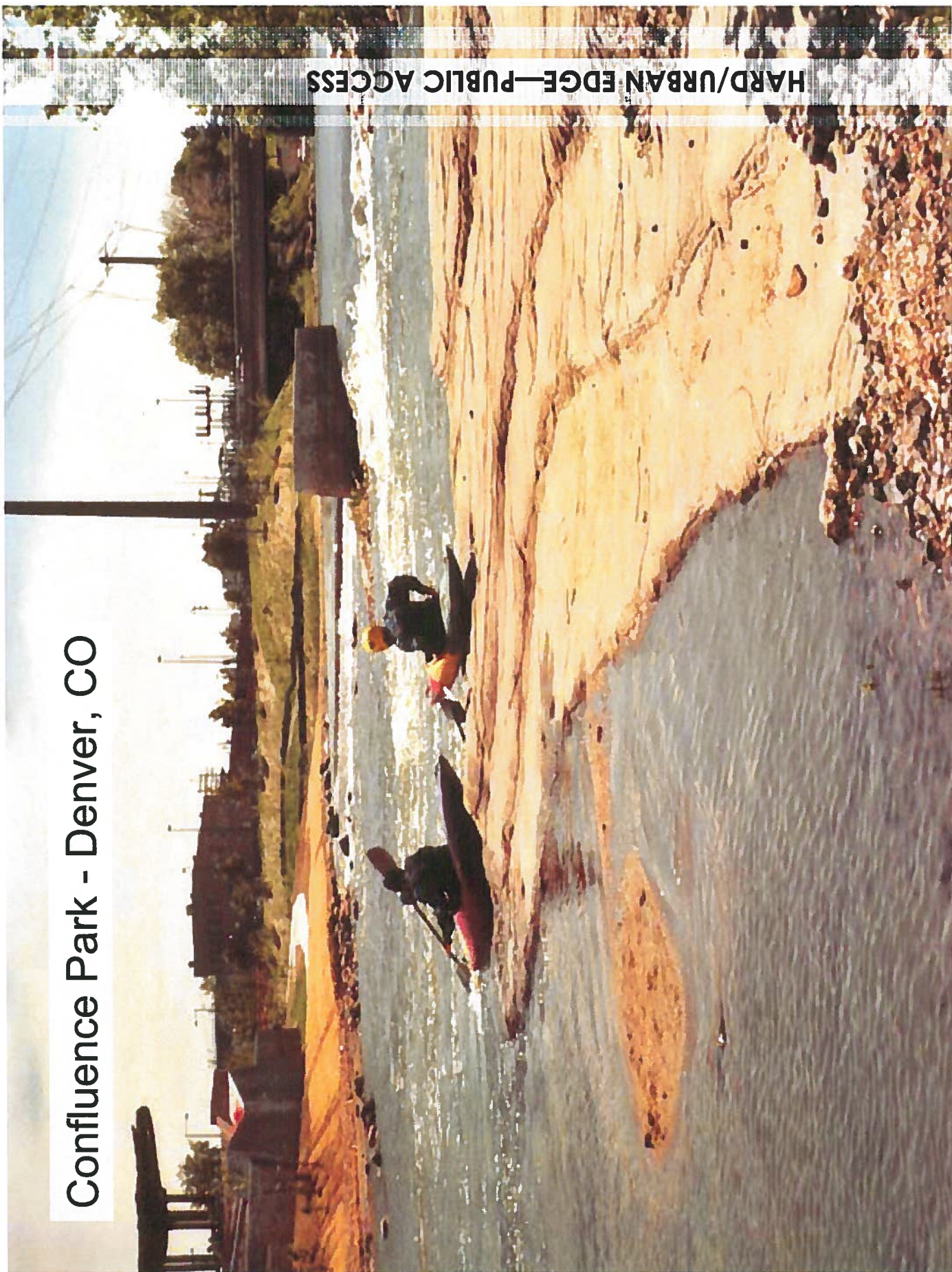


“The Young Swimmers” – Marinette, WI



HARD/URBAN EDGE—PUBLIC ACCESS

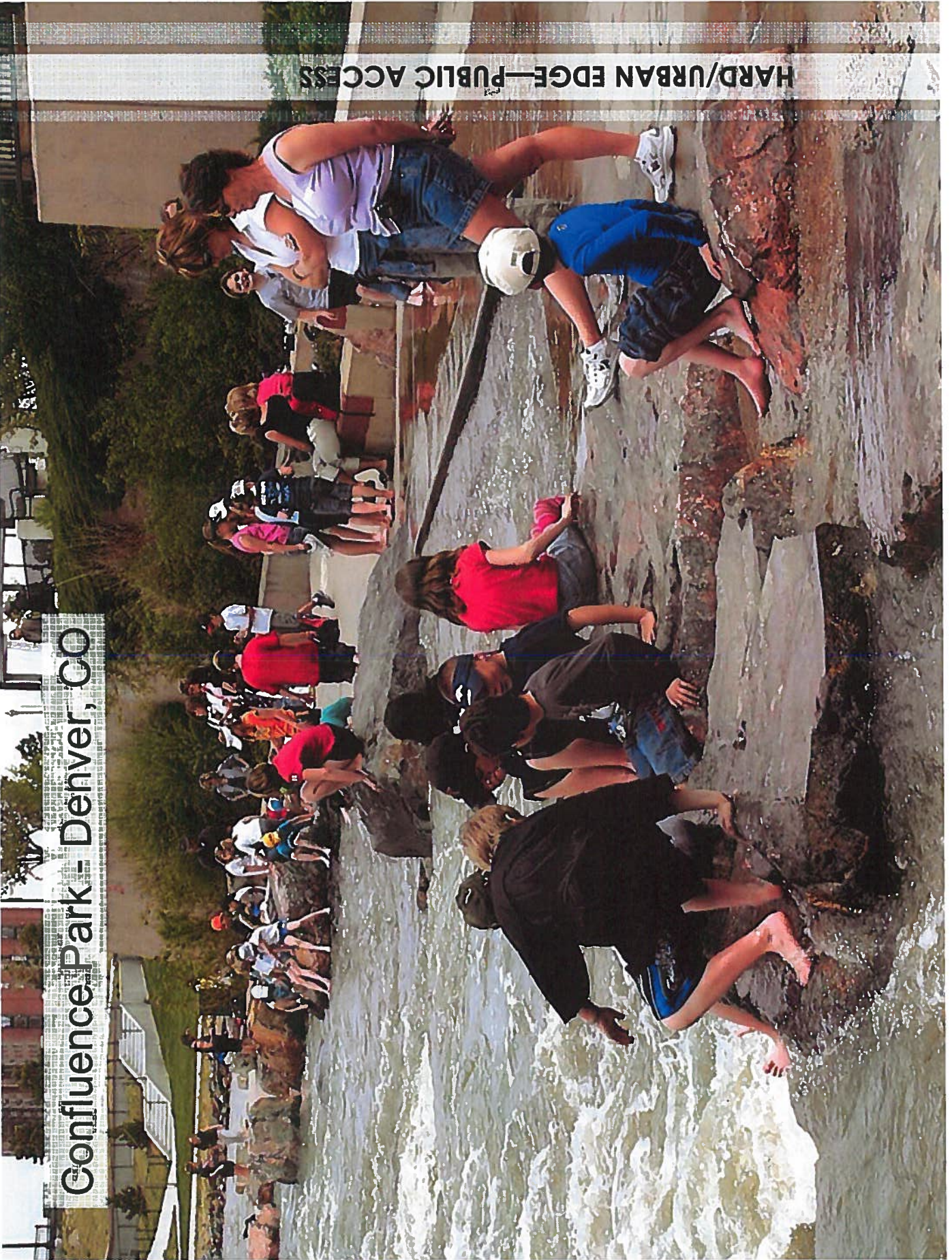
Confluence Park - Denver, CO



HARD/URBAN EDGE—PUBLIC ACCESS

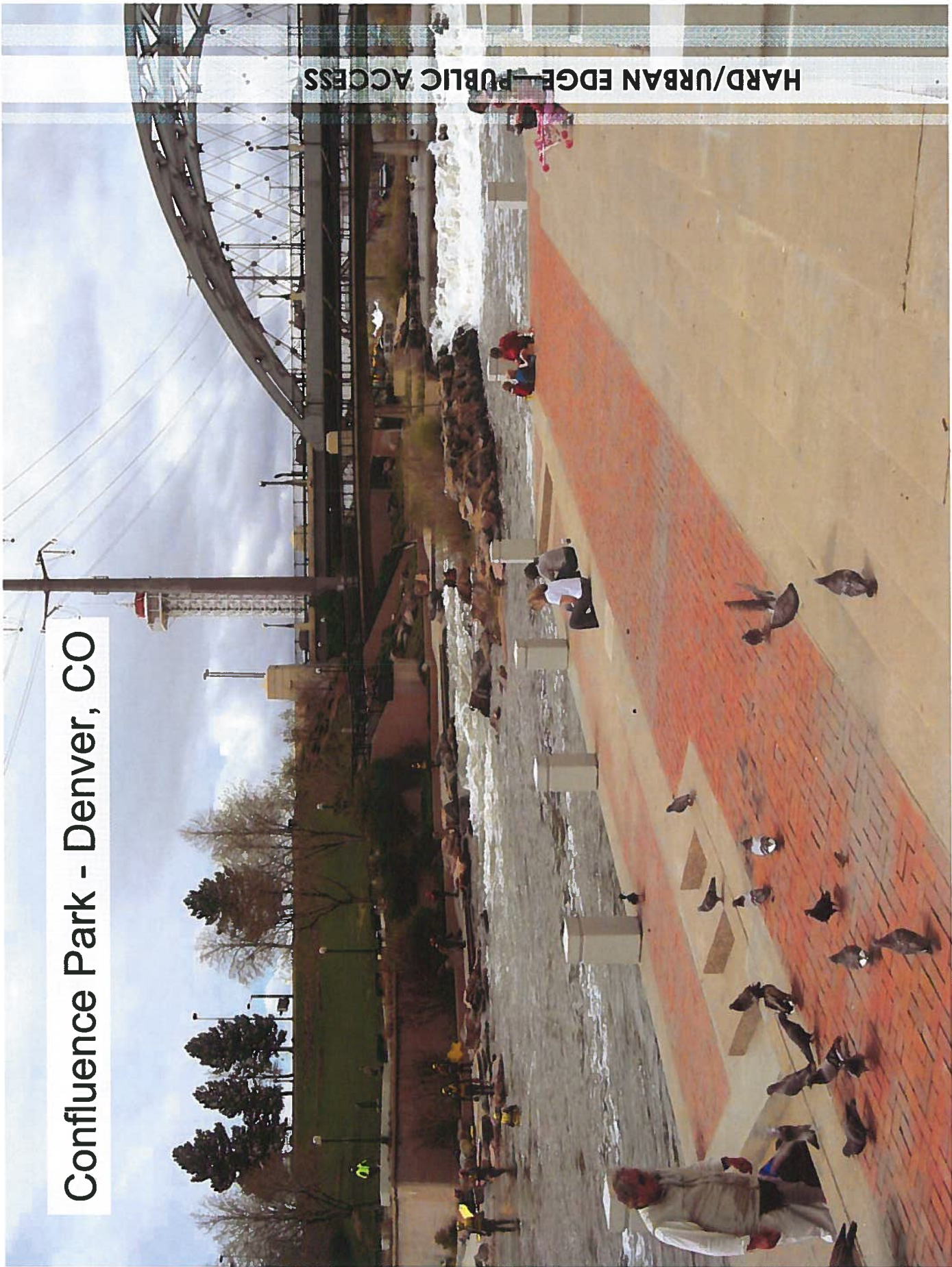
Confluence Park - Denver, CO

HARD/URBAN EDGE—PUBLIC ACCESS



Confluence Park - Denver, CO

HARD/URBAN EDGE - PUBLIC ACCESS



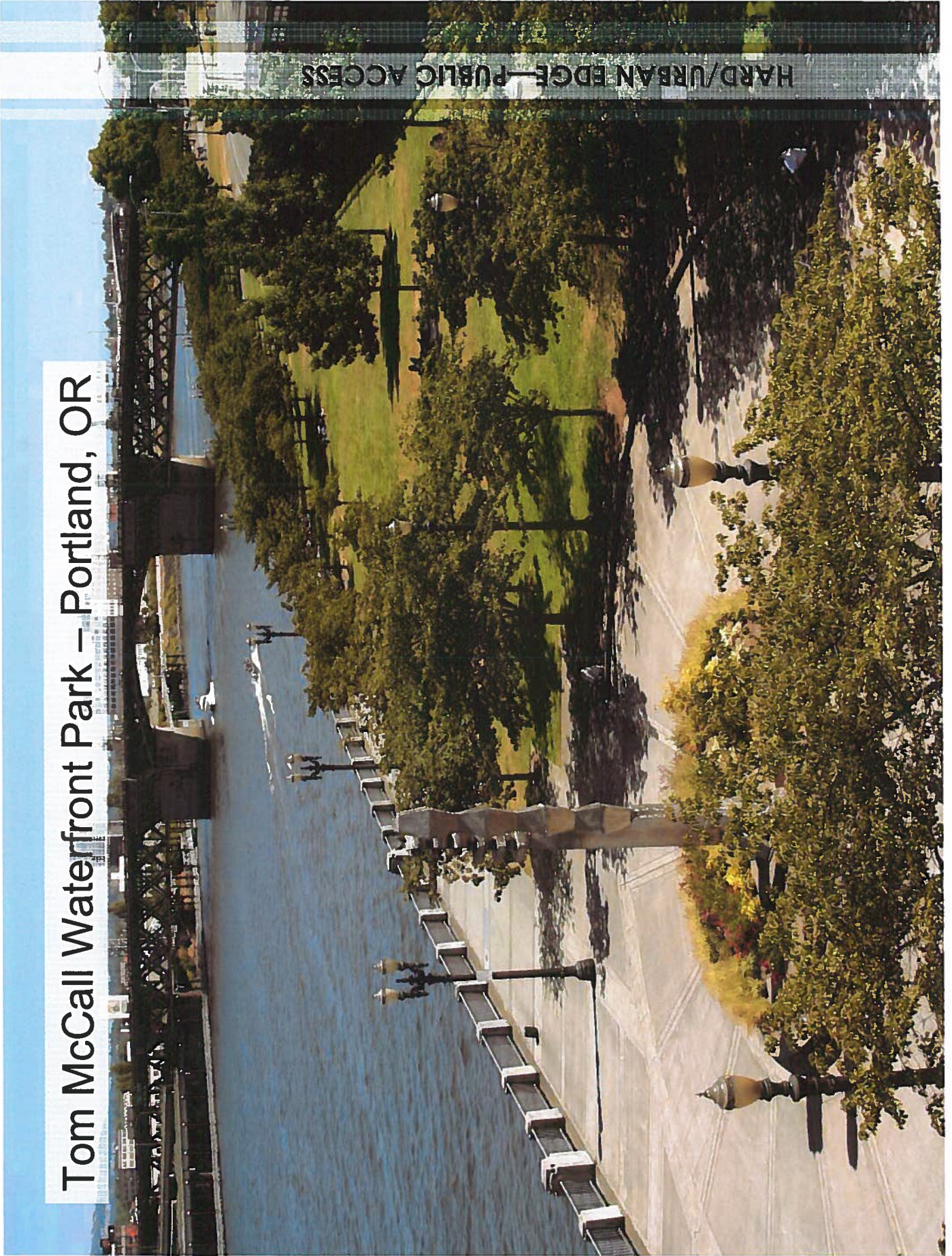
Guadalquivir River in the Port of - Seville, Spain

HARD/URBAN EDGE—PUBLIC ACCESS



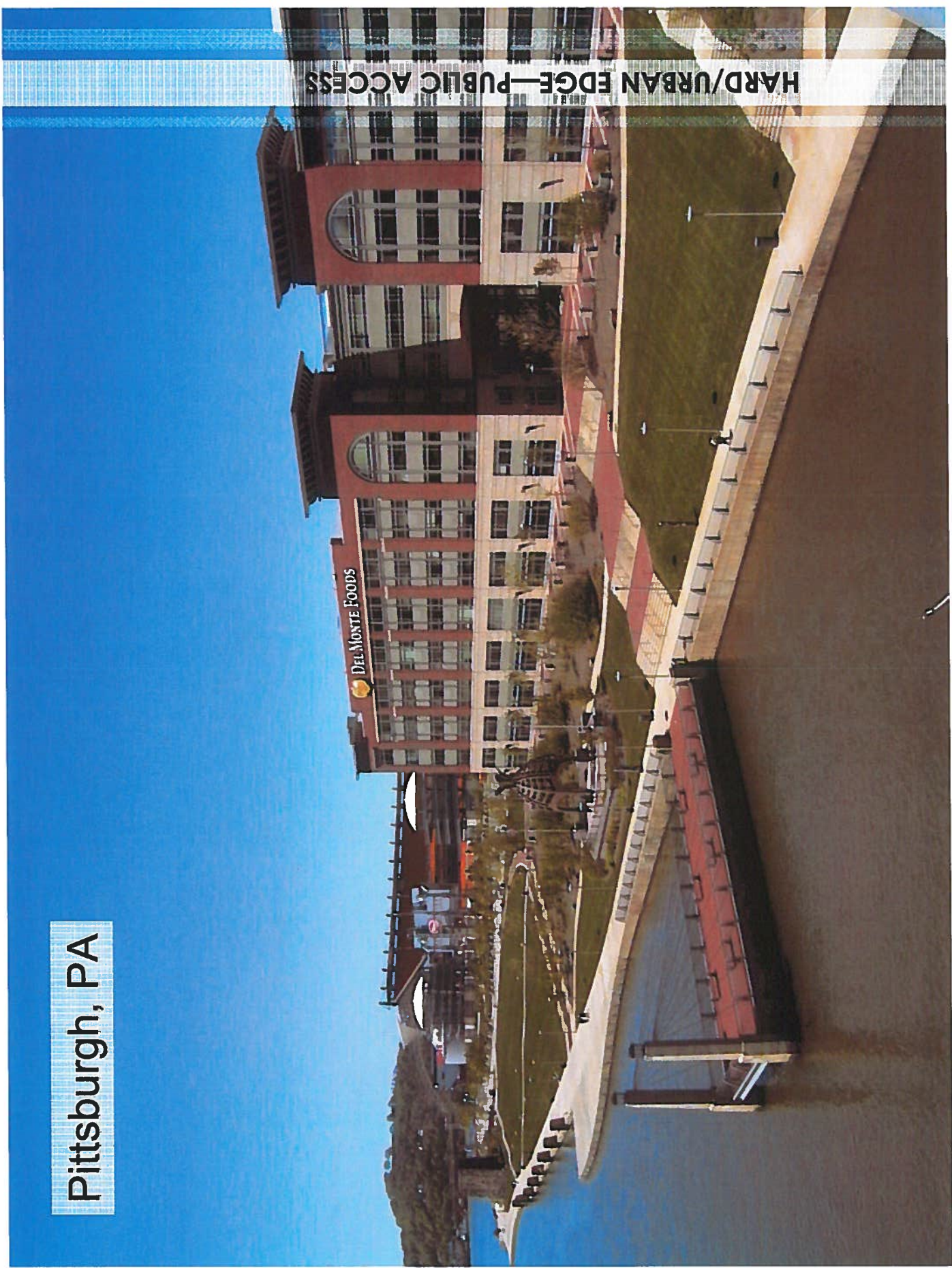
Tom McCall Waterfront Park – Portland, OR

HARD/URBAN EDGE—PUBLIC ACCESS



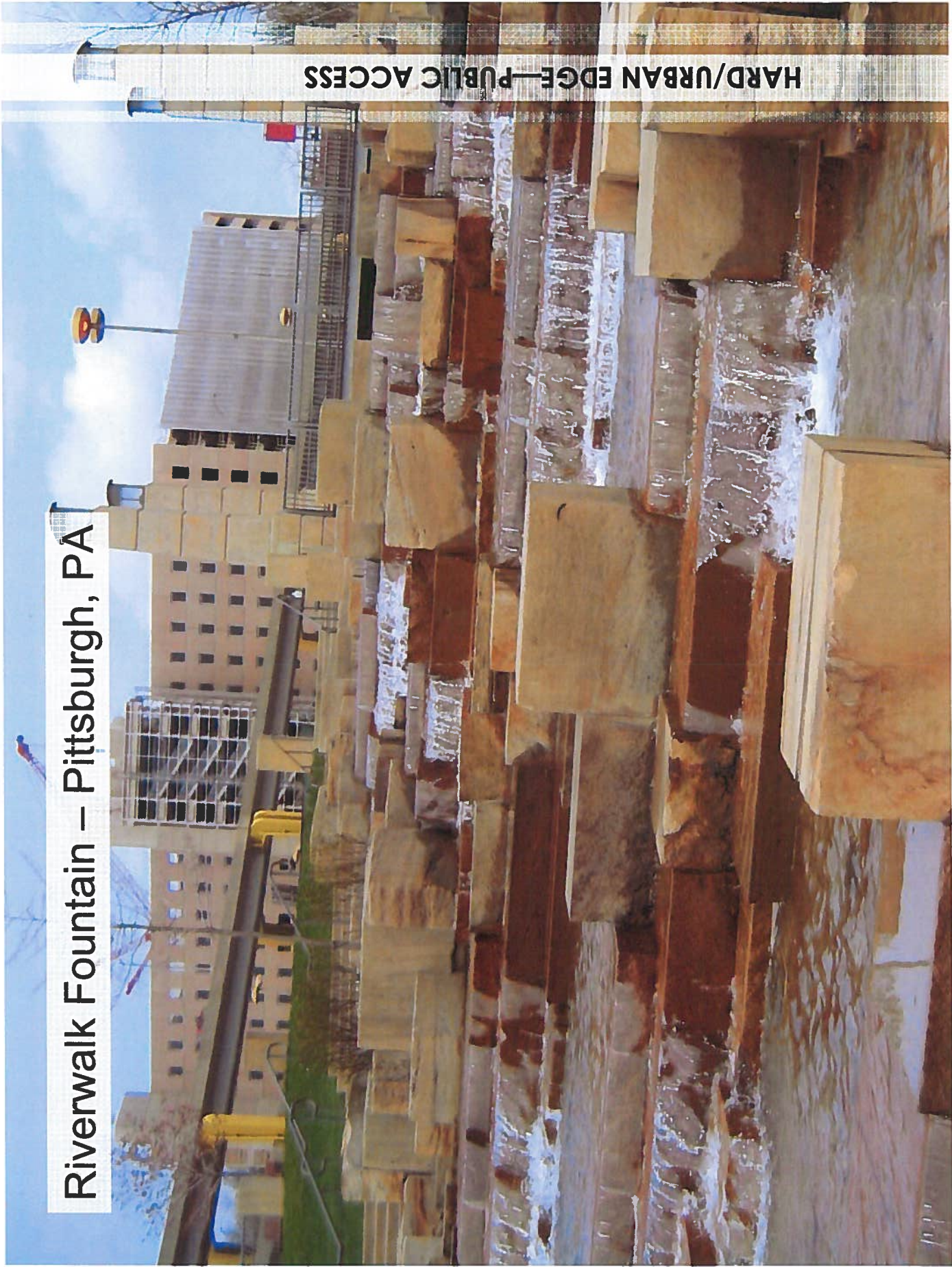
Pittsburgh, PA

HARD/URBAN EDGE—PUBLIC ACCESS



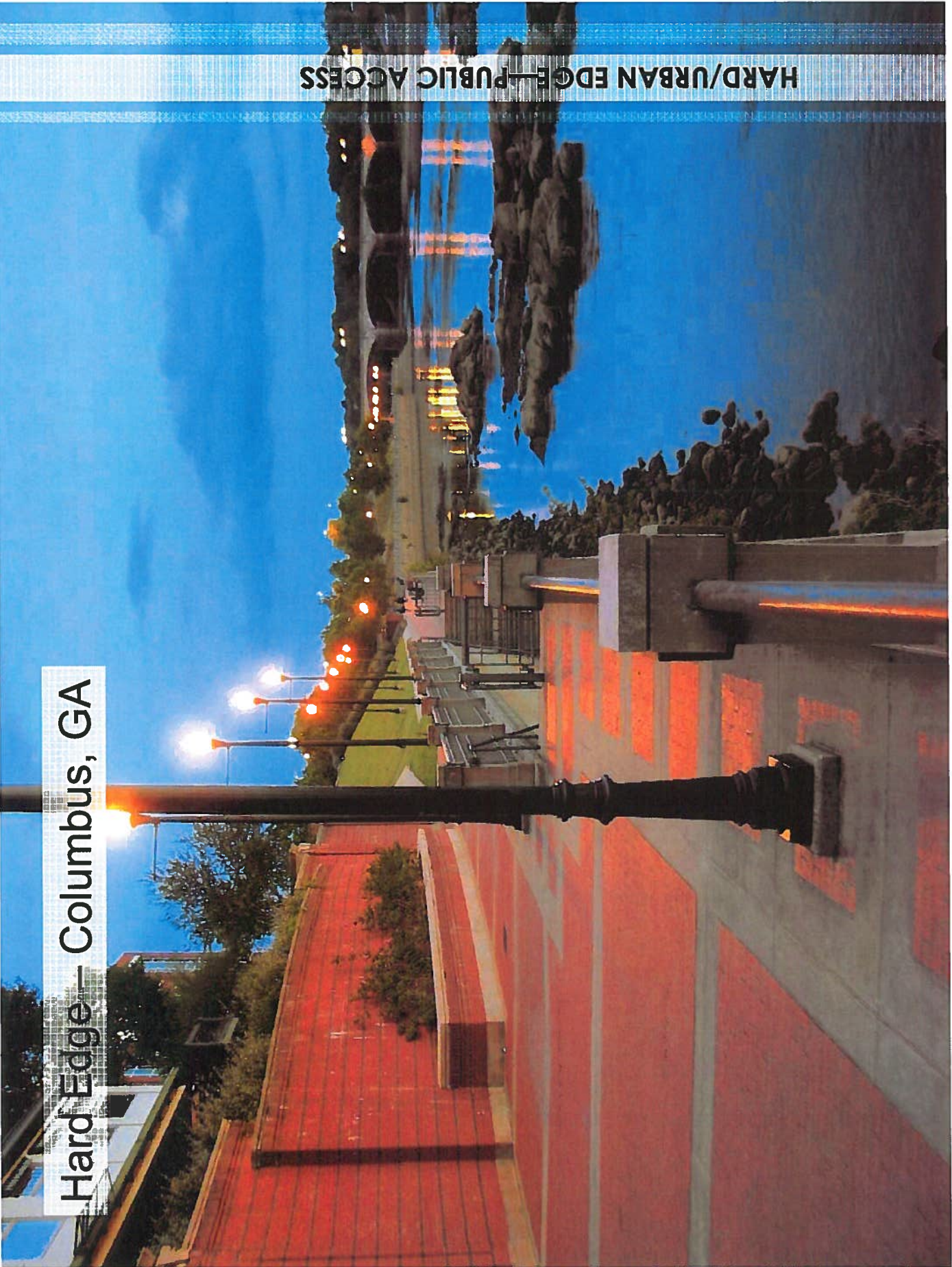
Riverwalk Fountain – Pittsburgh, PA

HARD/URBAN EDGE—PUBLIC ACCESS

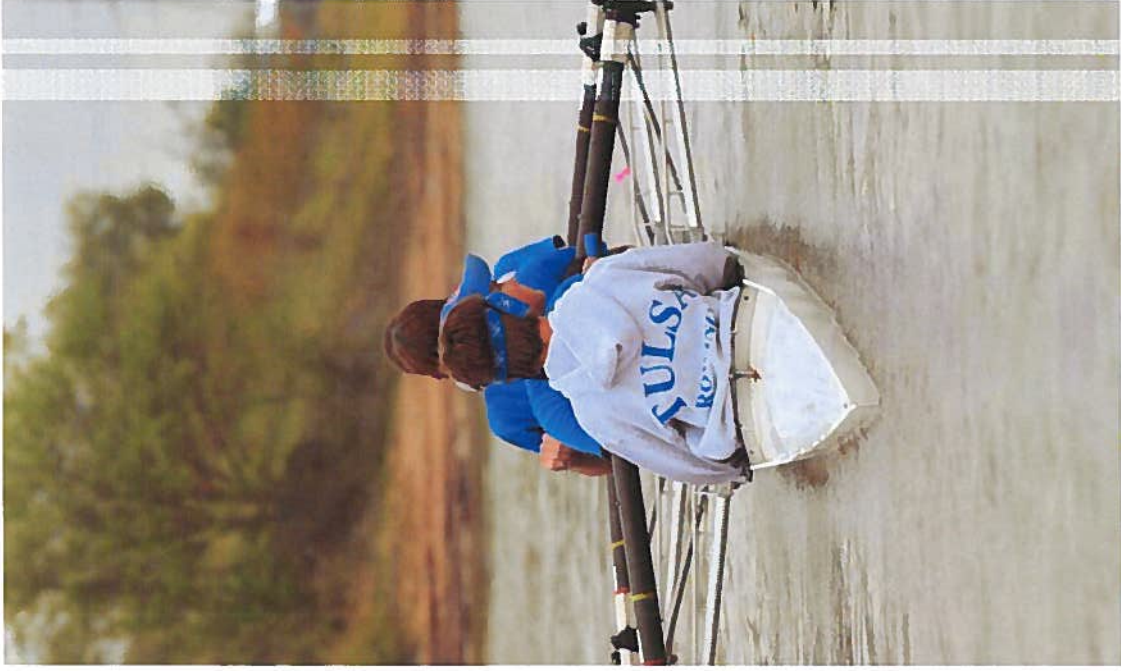


Hard Edge—Columbus, GA

HARD/URBAN EDGE—PUBLIC ACCESS



WATER ACTIVITIES



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**LANDPLAN
CONSULTANTS**



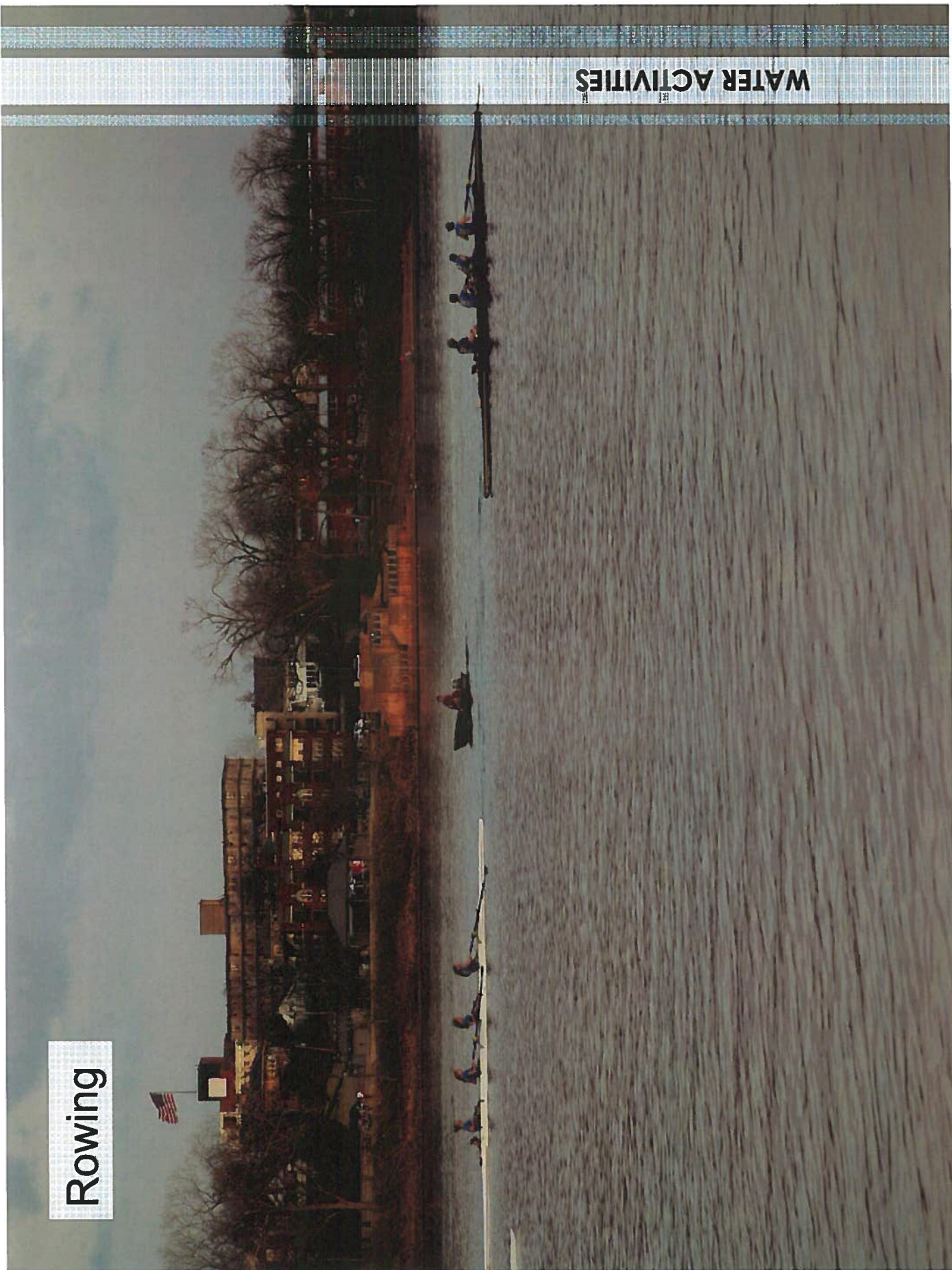
MESITEK
CIVIL & WATER RESOURCE ENGINEERING
GEOSPATIAL INFORMATION SYSTEMS



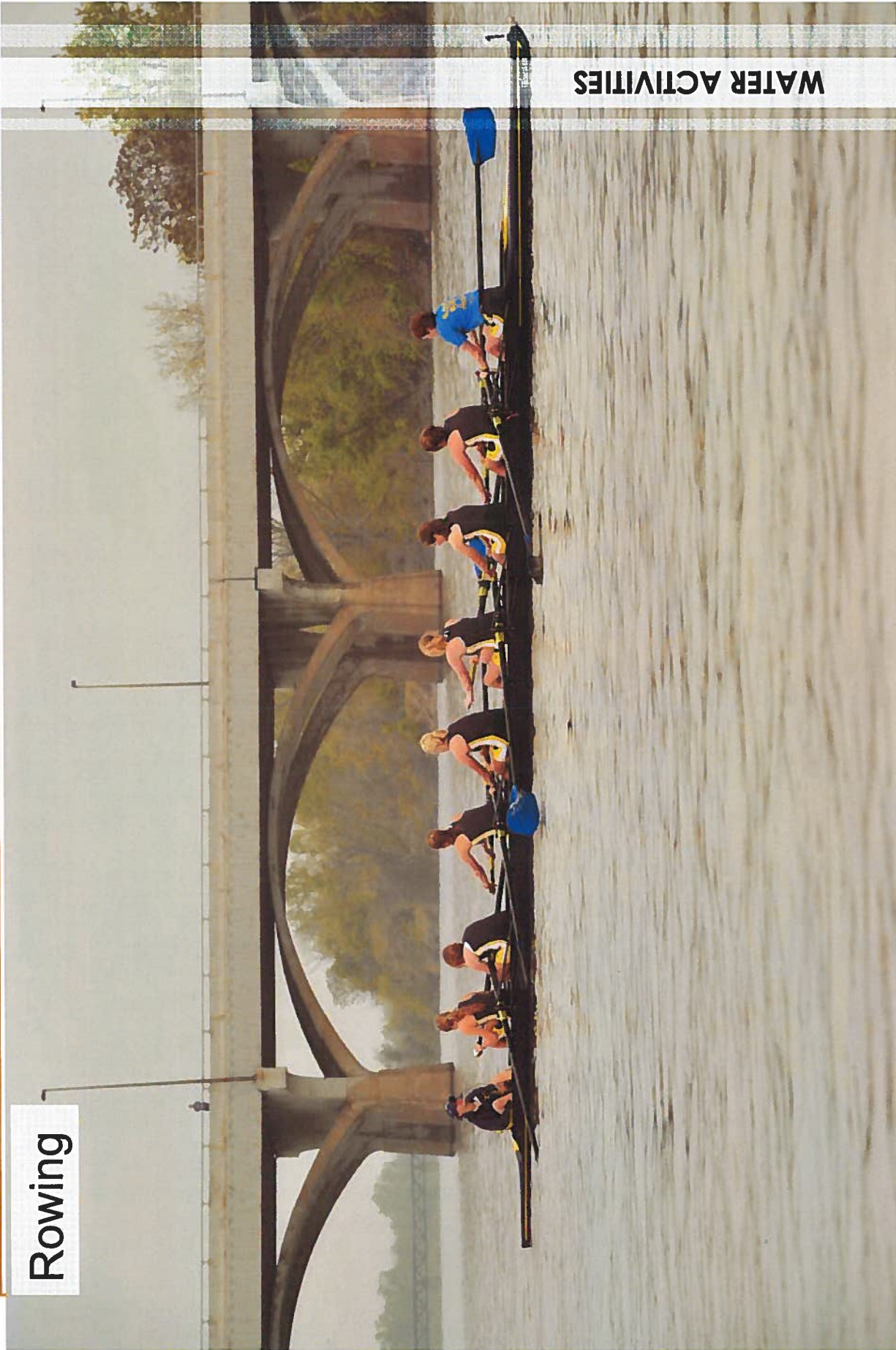
McLaughlin Whitewater
CORPORATION

WATER ACTIVITIES

Rowing

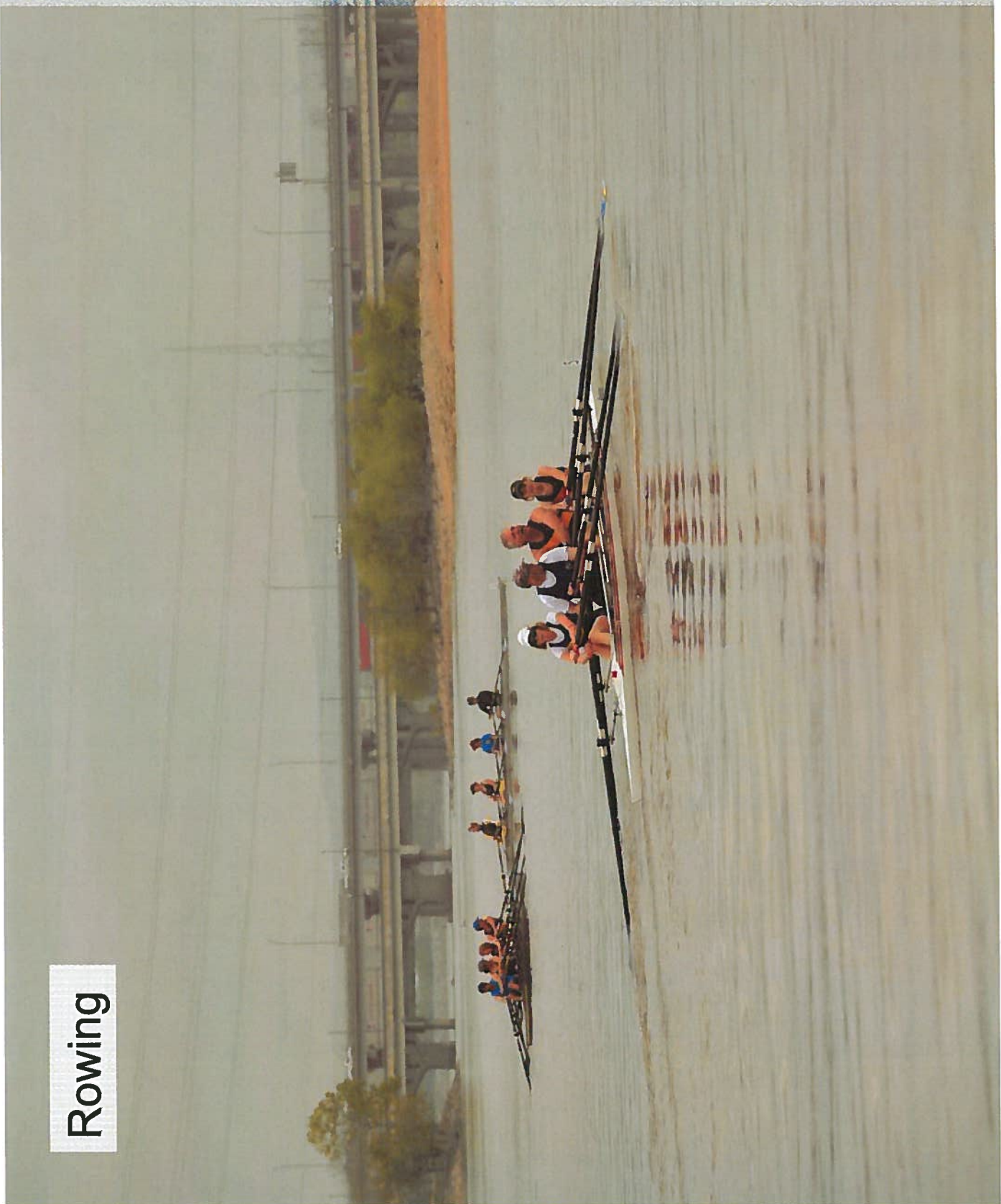


WATER ACTIVITIES



Rowing

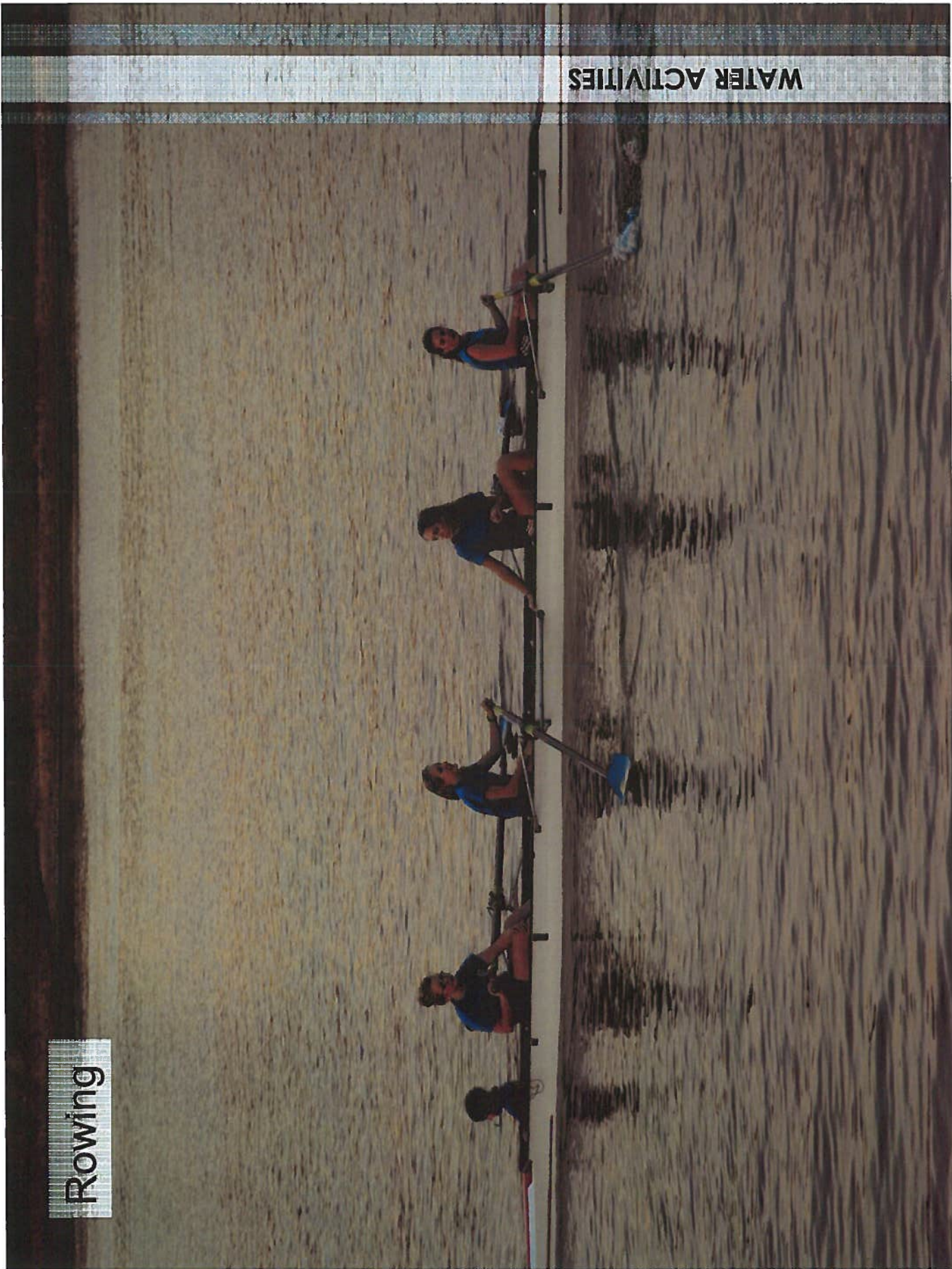
WATER ACTIVITIES

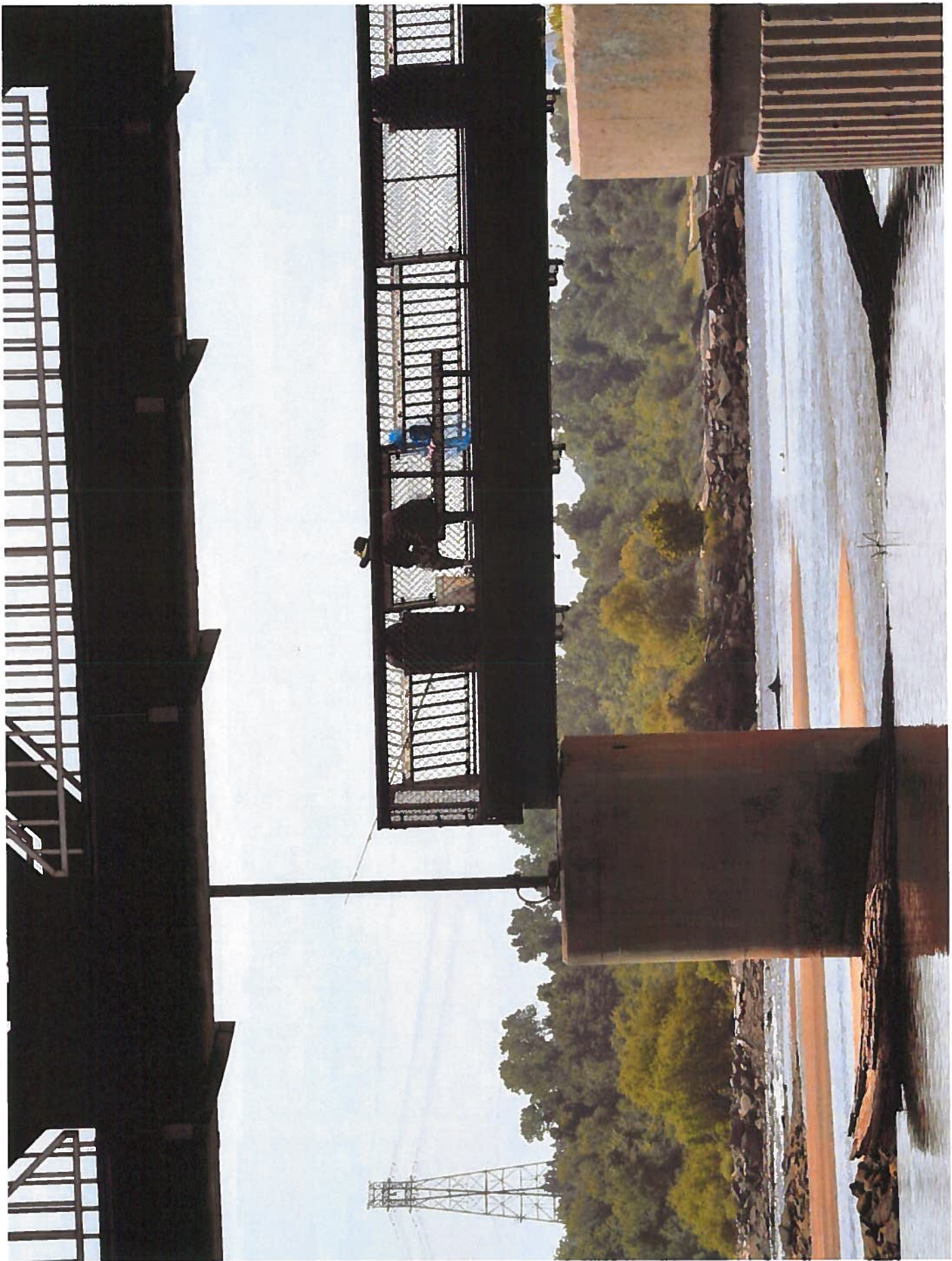


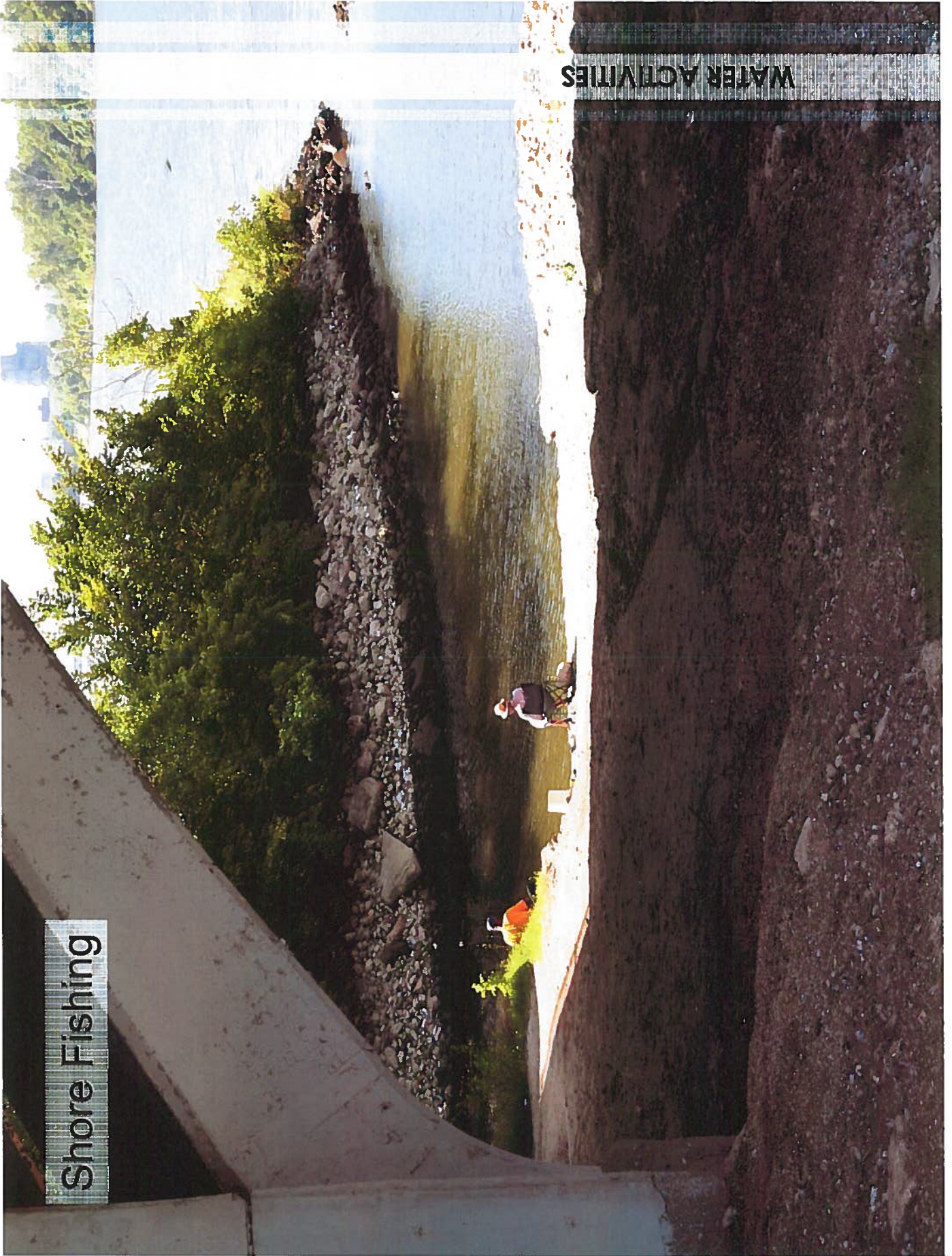
Rowing

WATER ACTIVITIES

Rowing



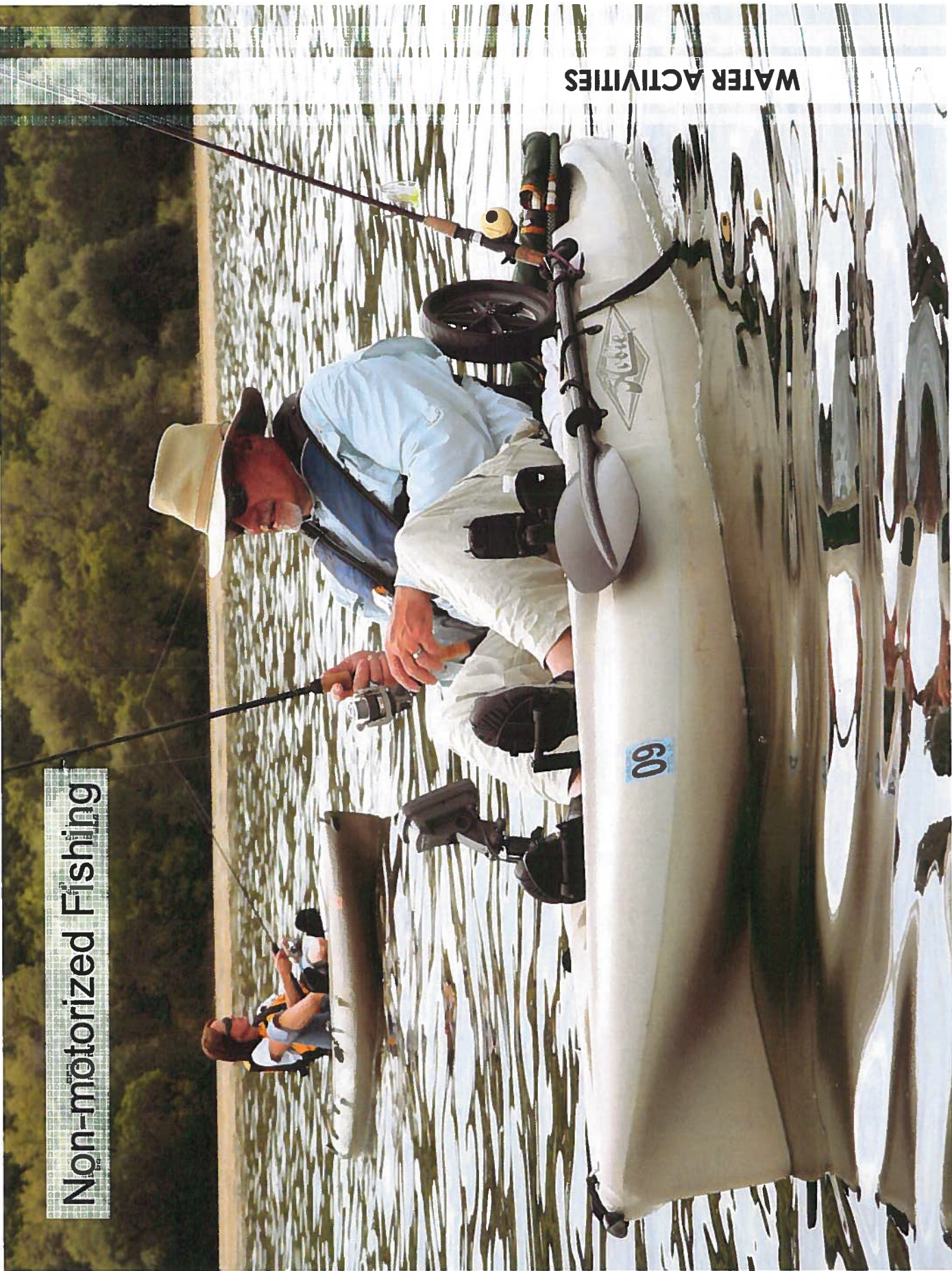




Shore Fishing

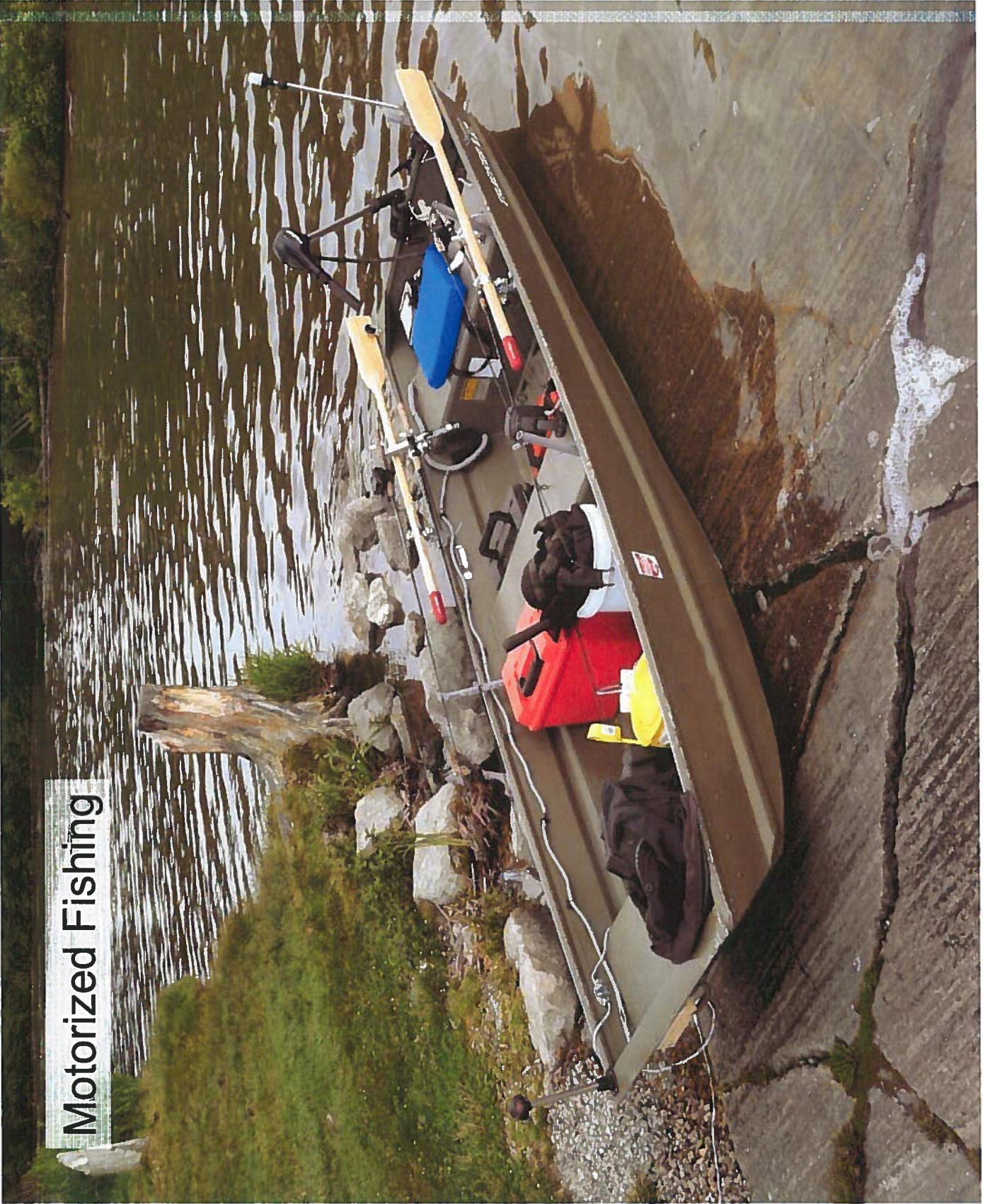
WATER ACTIVITIES

WATER ACTIVITIES



Non-motorized Fishing

WATER ACTIVITIES



Motorized Fishing

WATER ACTIVITIES

Motorized Fishing



WATER ACTIVITIES



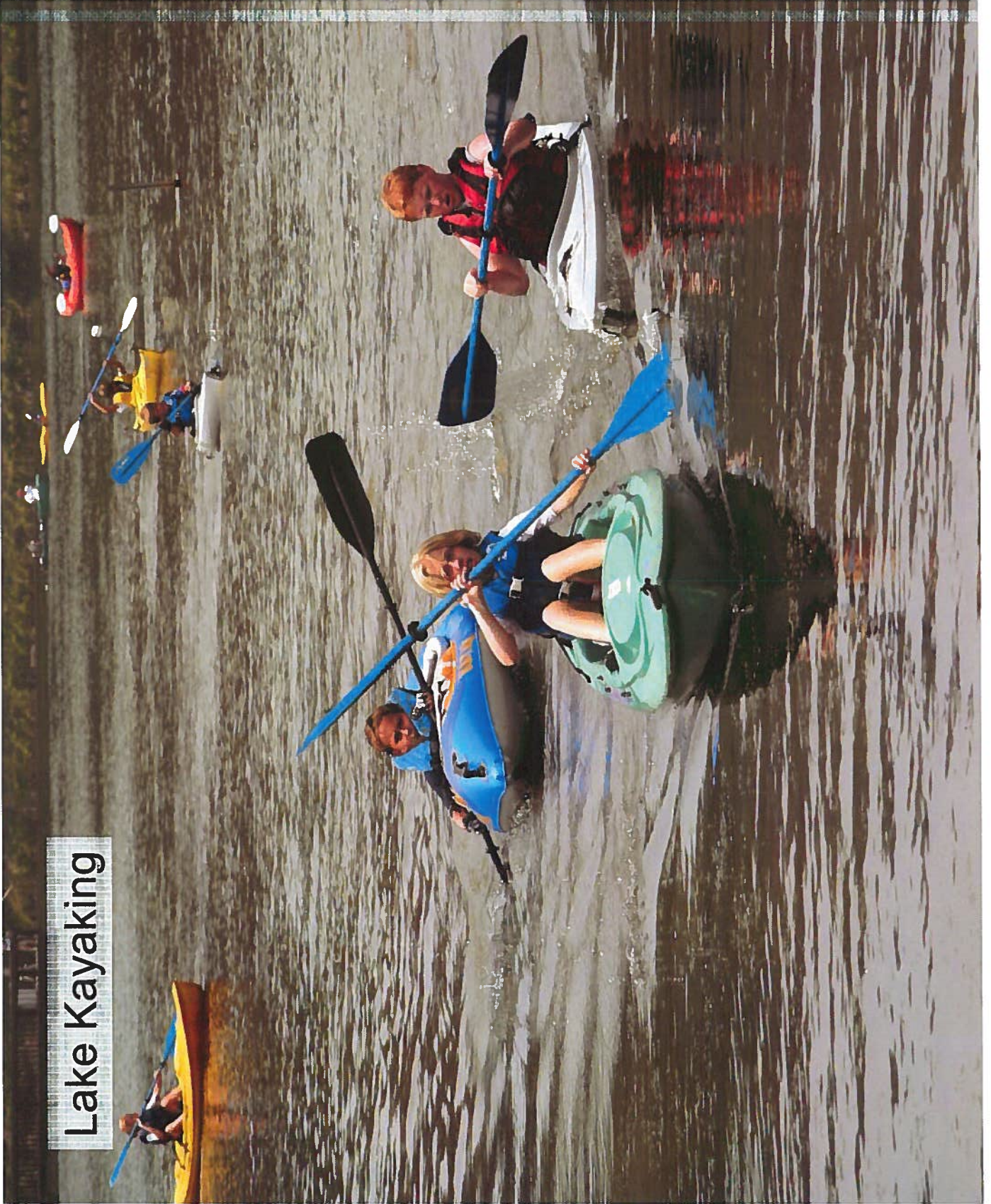
Padding

WATER ACTIVITIES



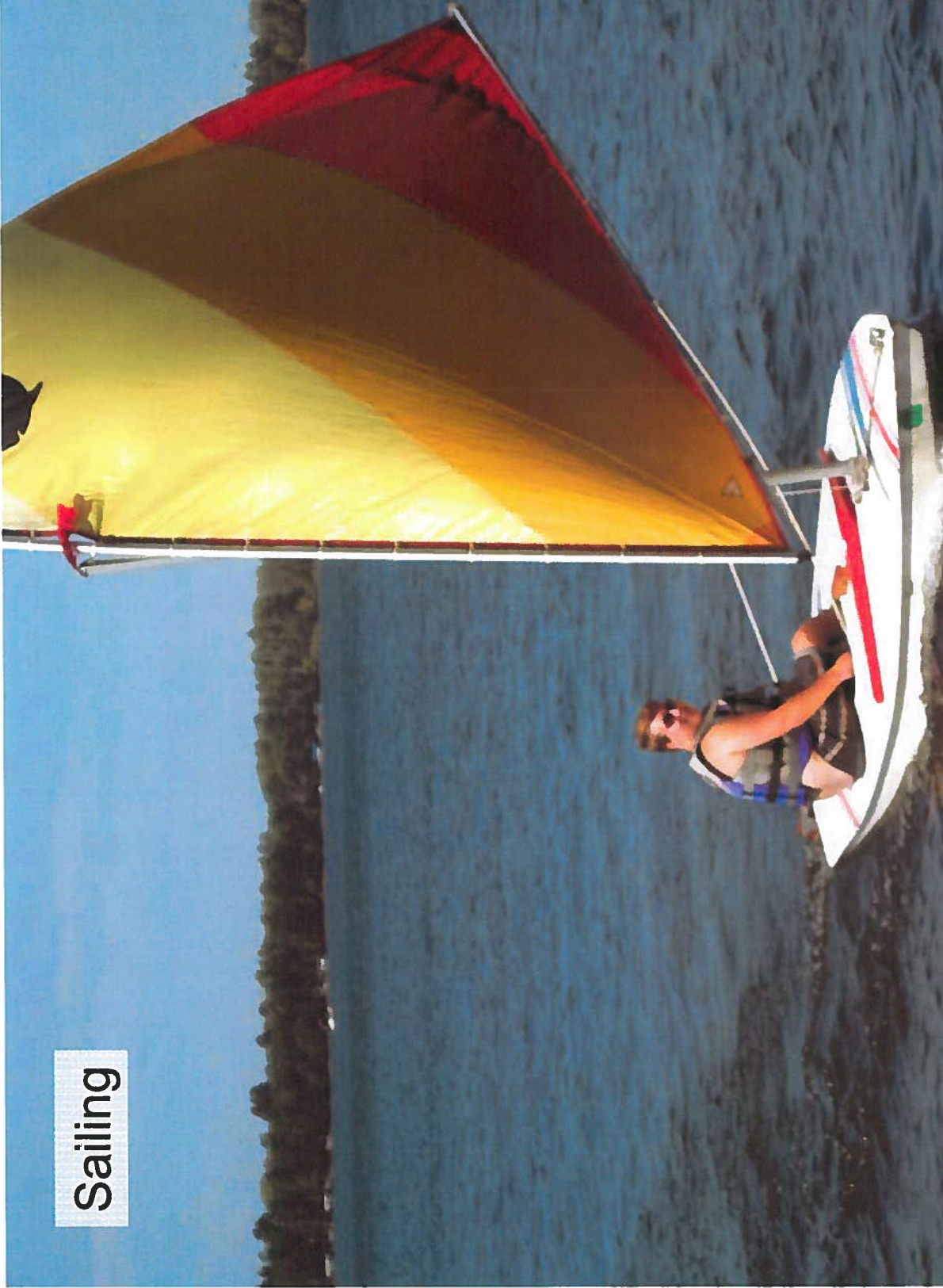
Lake Kayaking

WATER ACTIVITIES

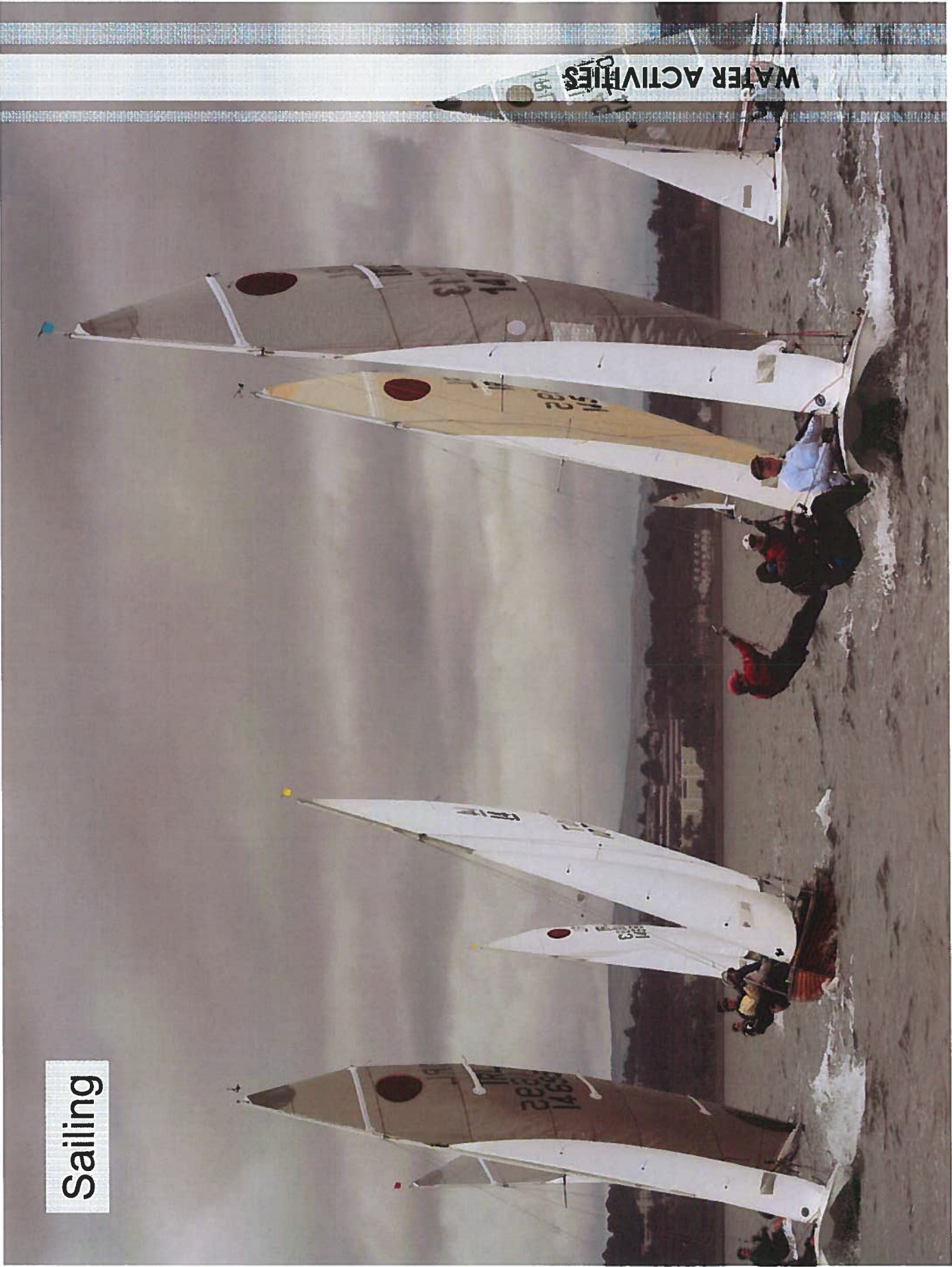


Lake Kayaking

WATER ACTIVITIES



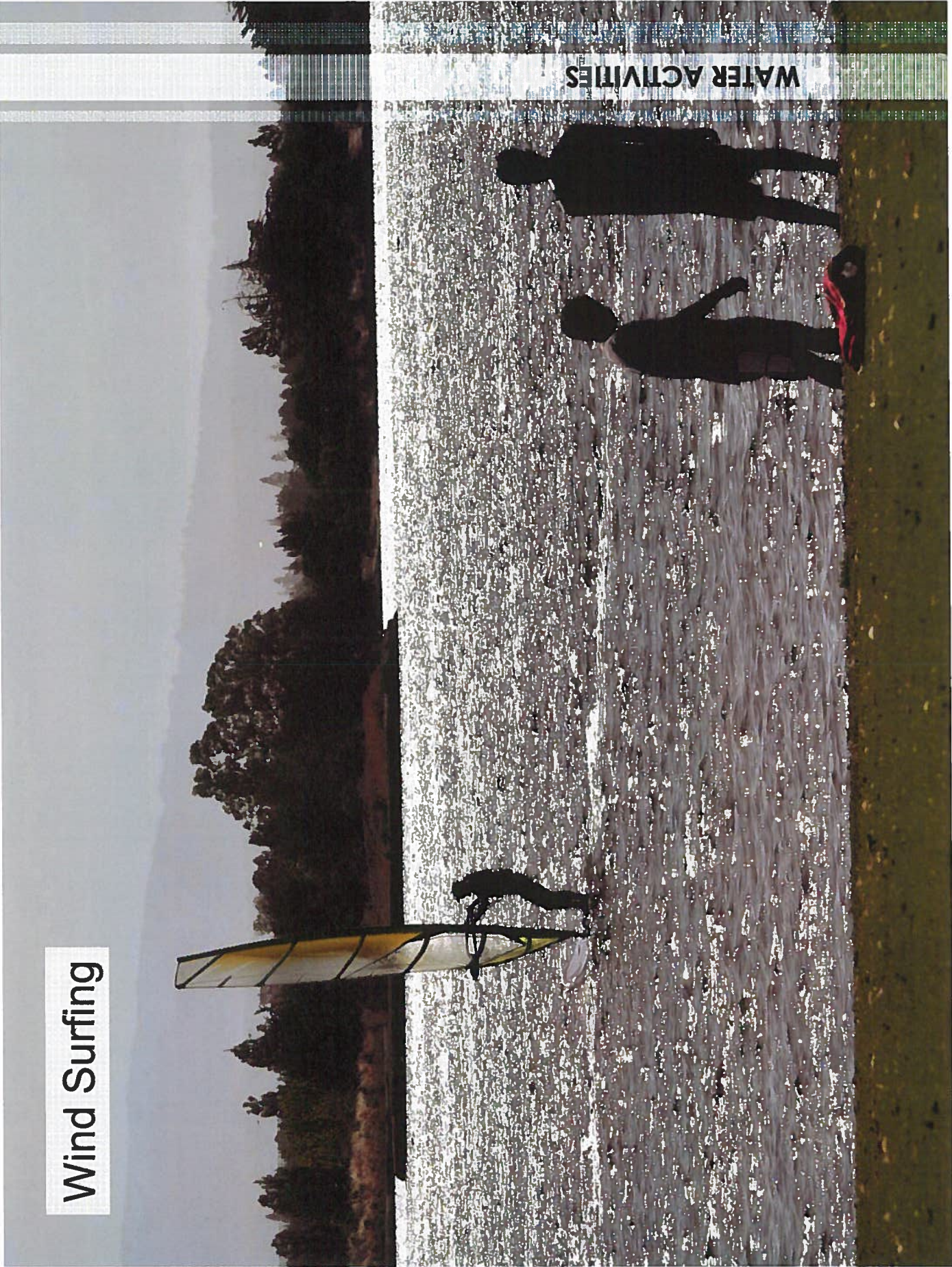
Sailing



WATER ACTIVITIES

Sailing

WATER ACTIVITIES



Wind Surfing



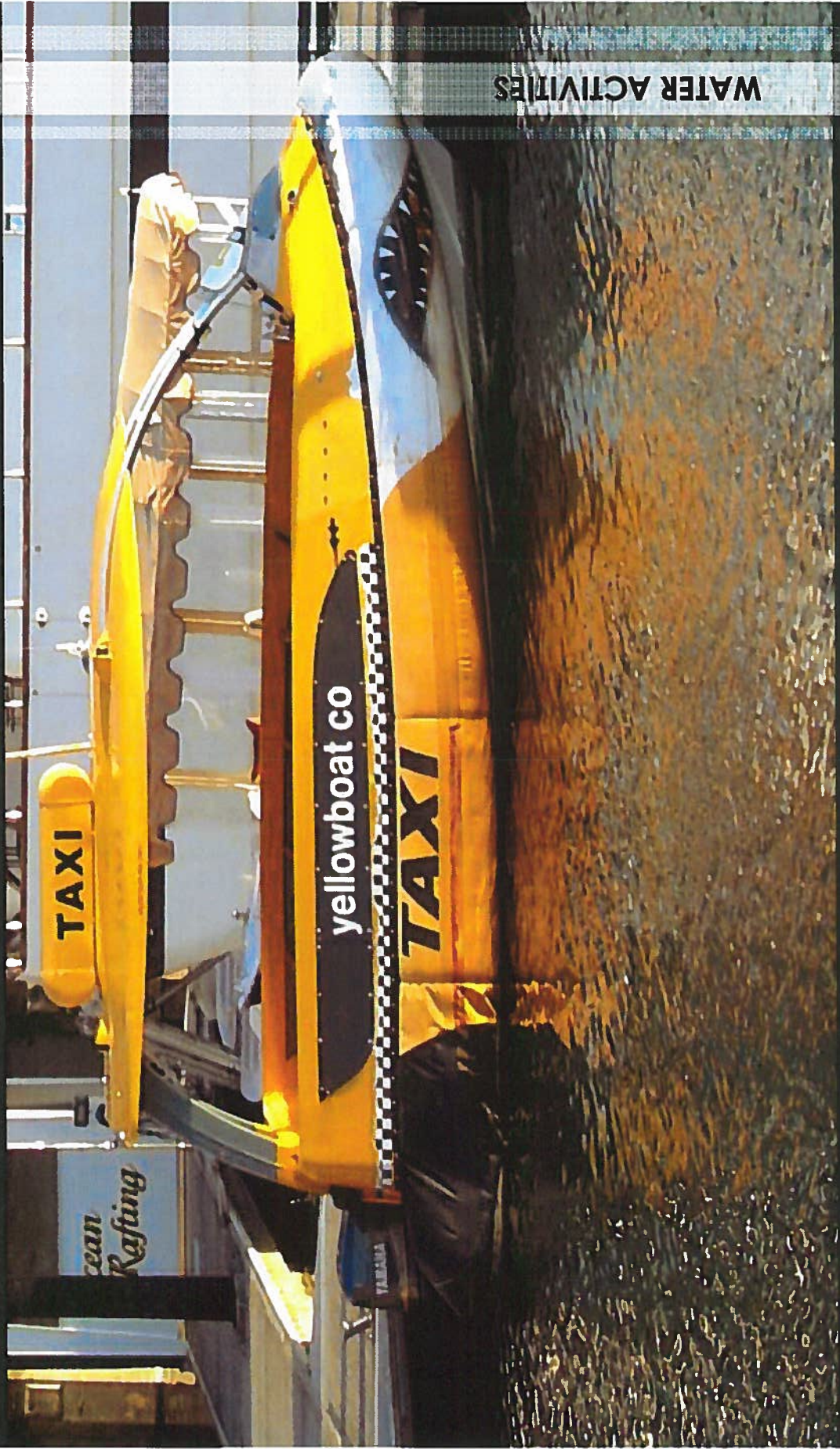
Waterball

Water Taxi

WATER ACTIVITIES

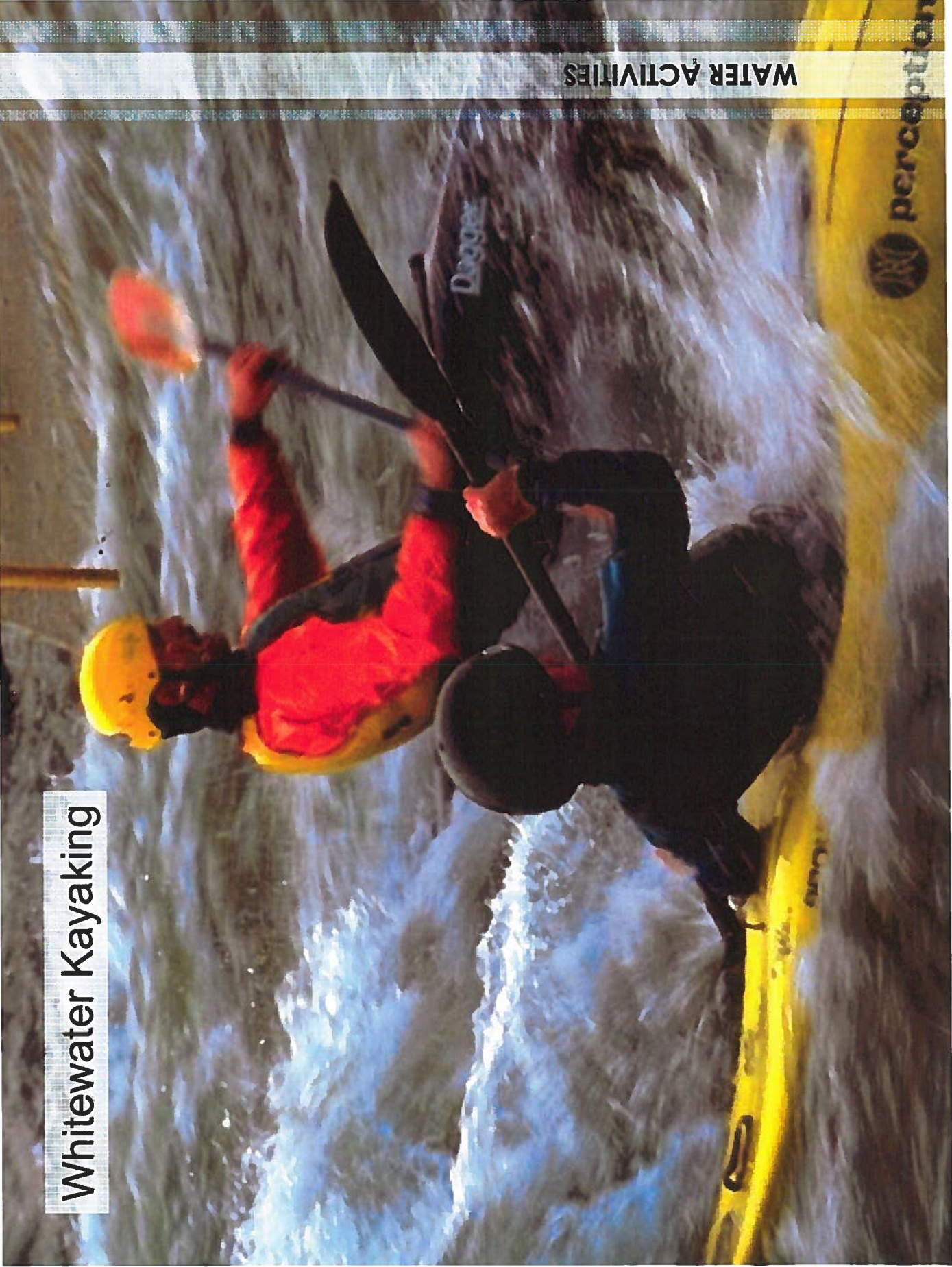


WATER ACTIVITIES



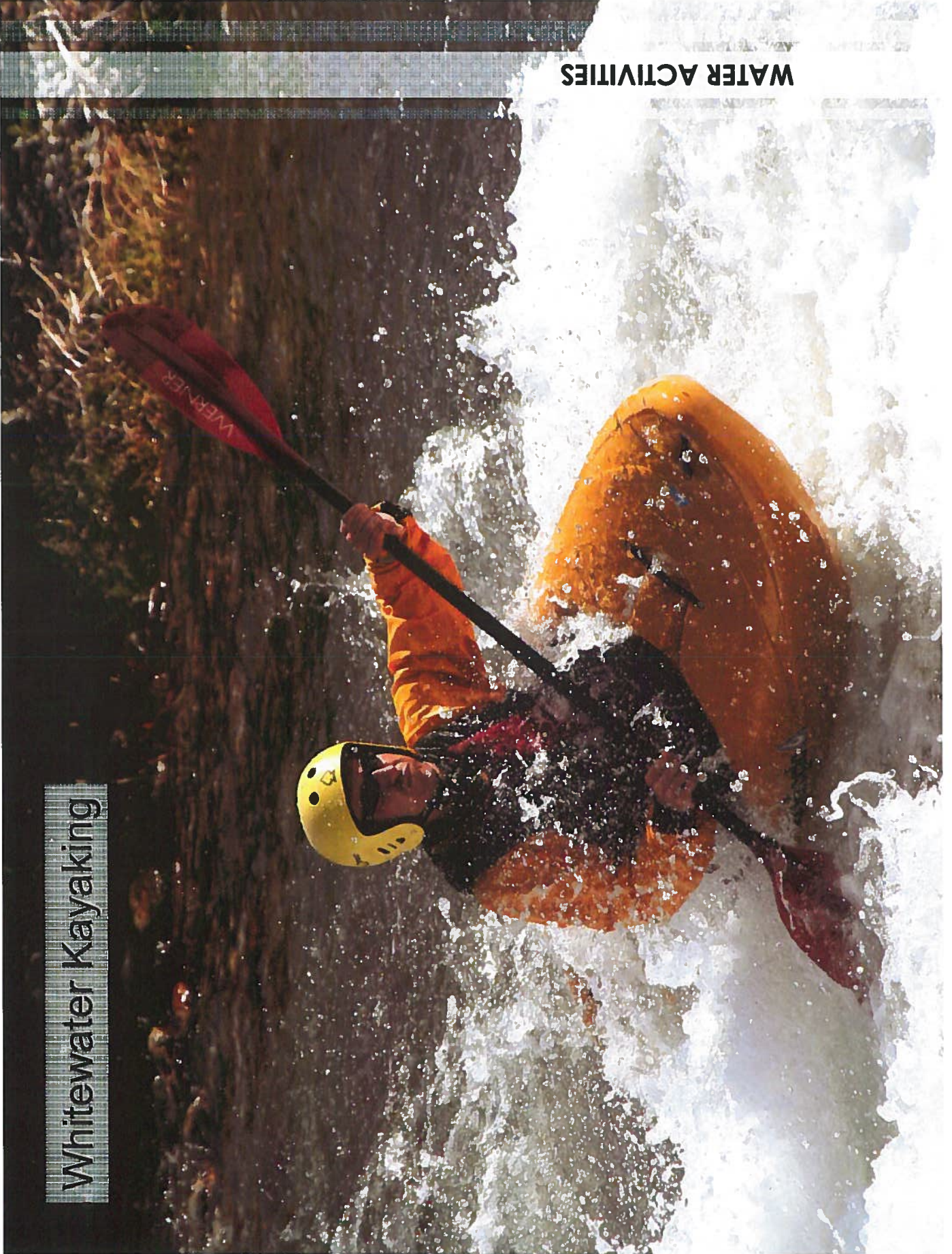
Water Taxi

Whitewater Kayaking



WATER ACTIVITIES

WATER ACTIVITIES

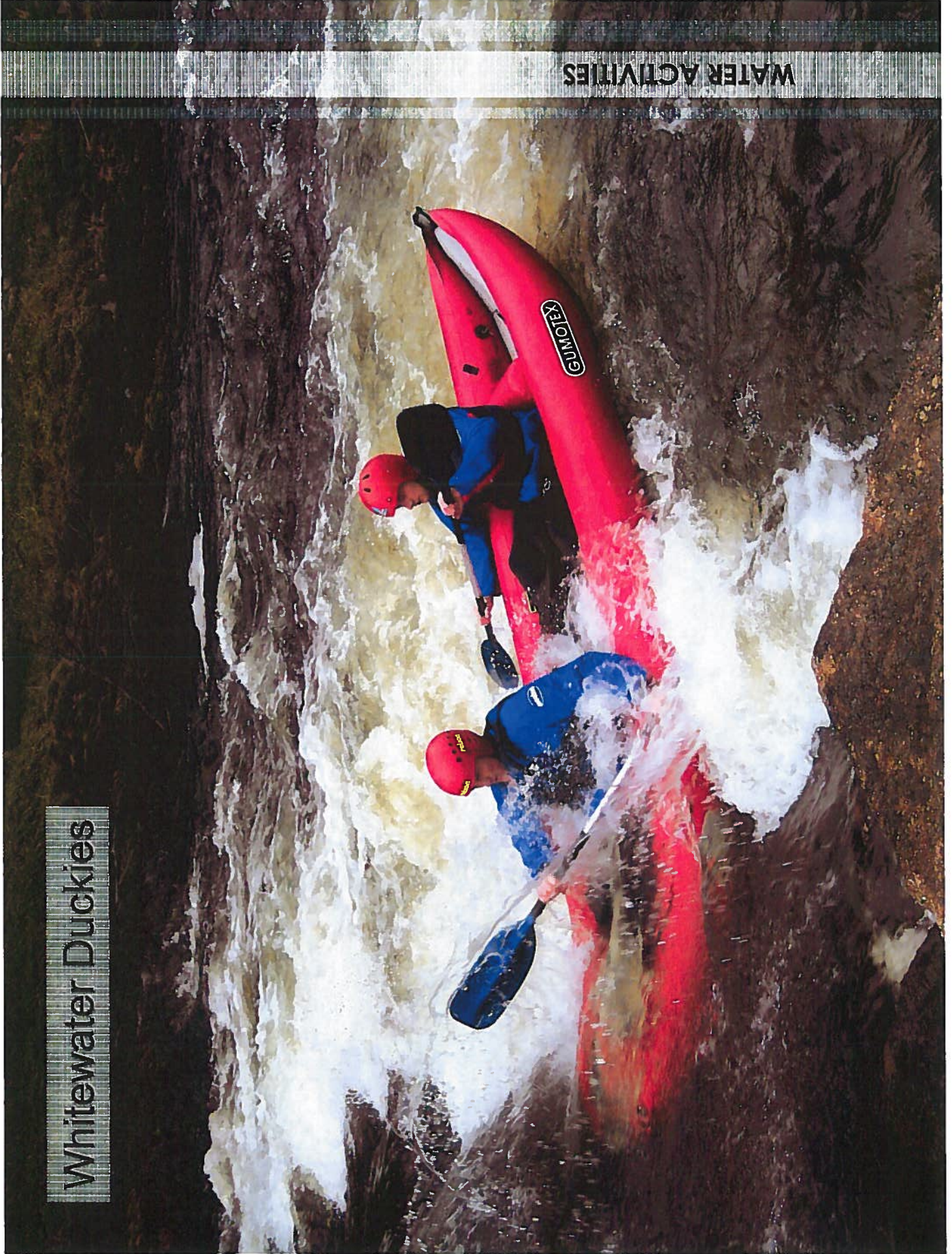


Whitewater Kayaking

Whitewater Course - McHenry, MD

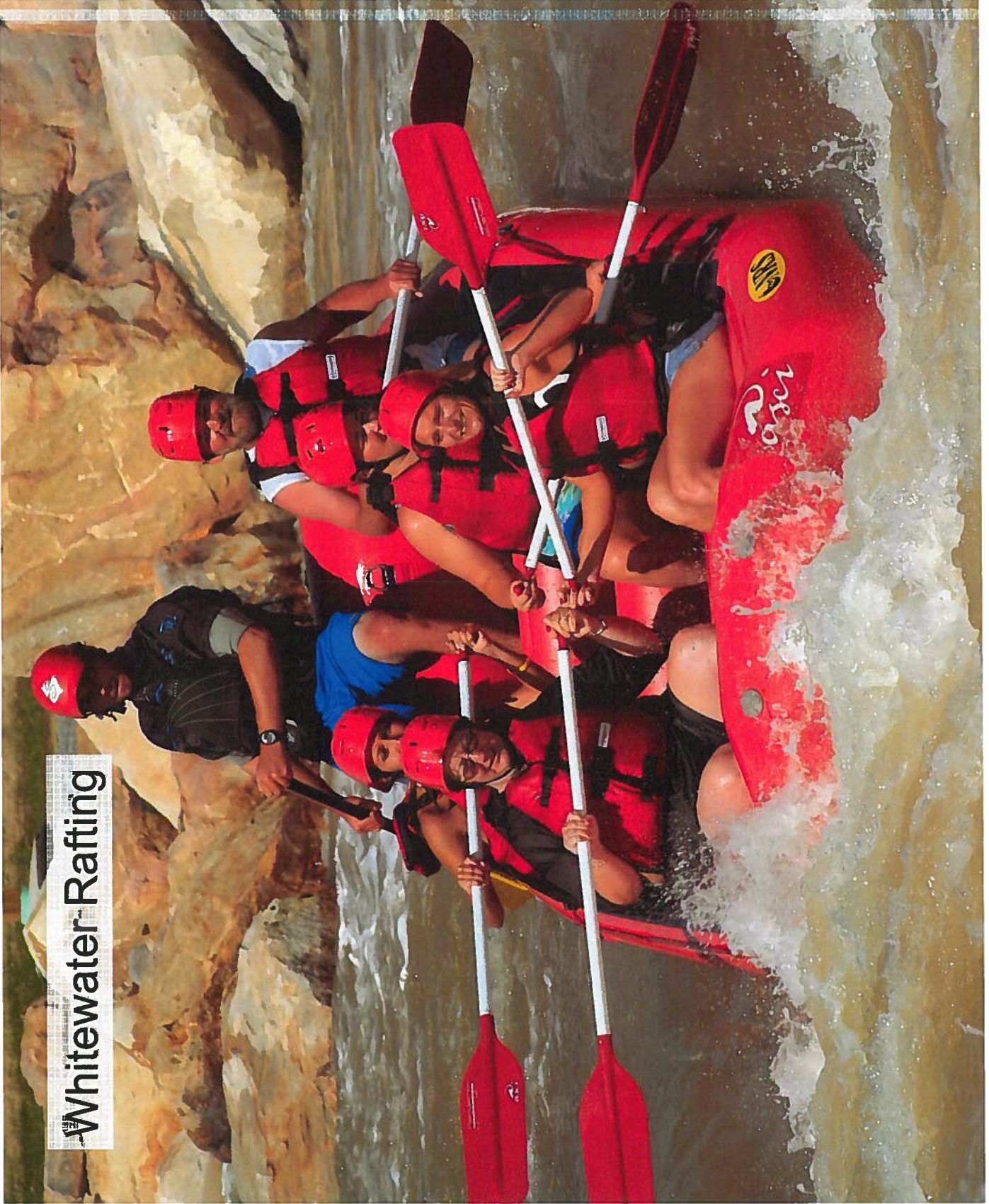


WATER ACTIVITIES



Whitewater Duckies

WATER ACTIVITIES



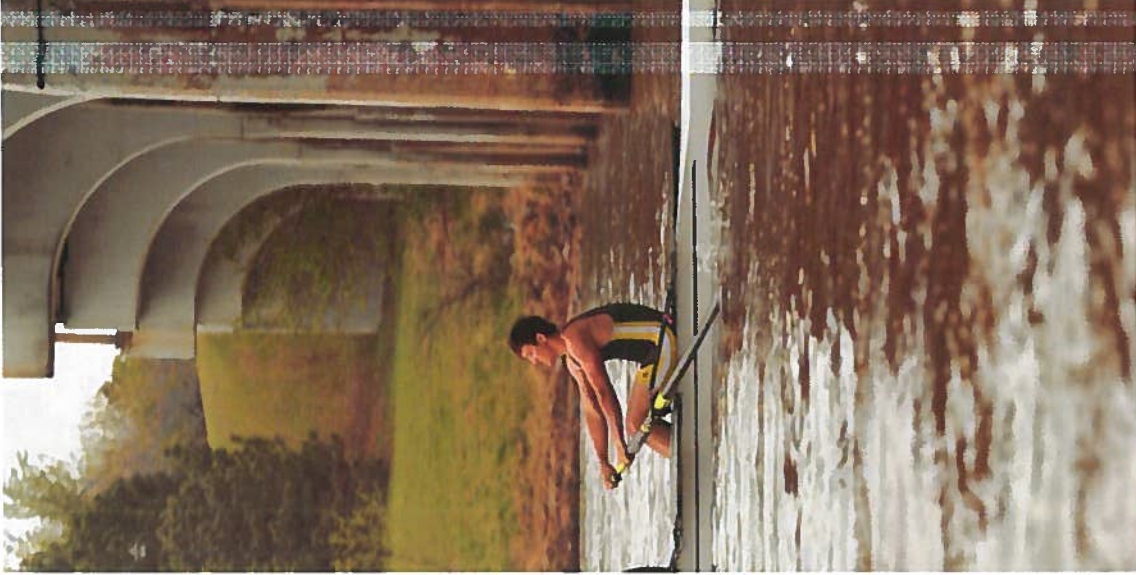
Whitewater Rafting

WATER ACTIVITIES



Tubing

WATERCRAFT ACCESS



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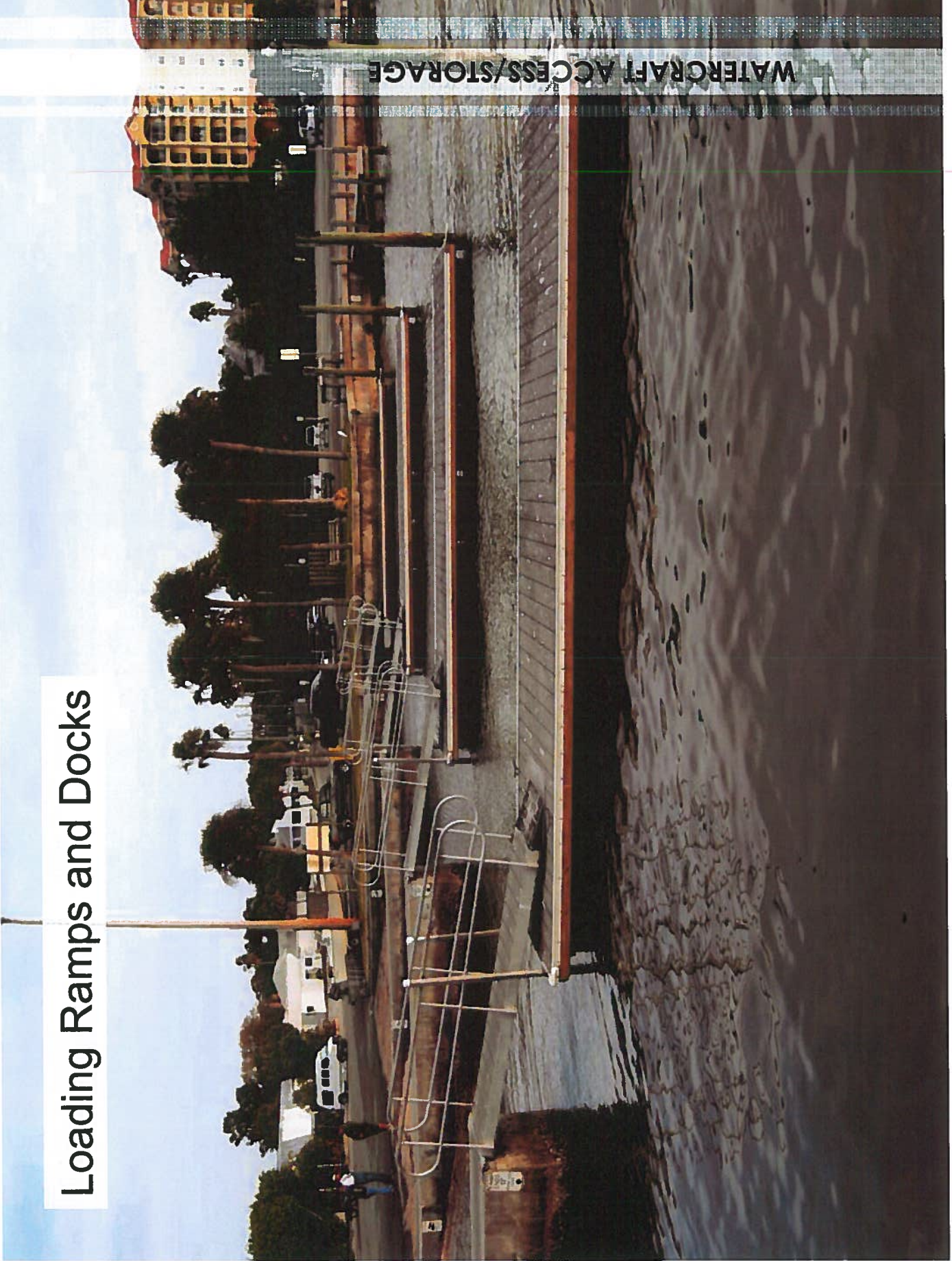


Div. & WATER RESOURCE ENGINEERING
DESIGNING INSPIRATION SYSTEMS



McLaughlin Whitewater

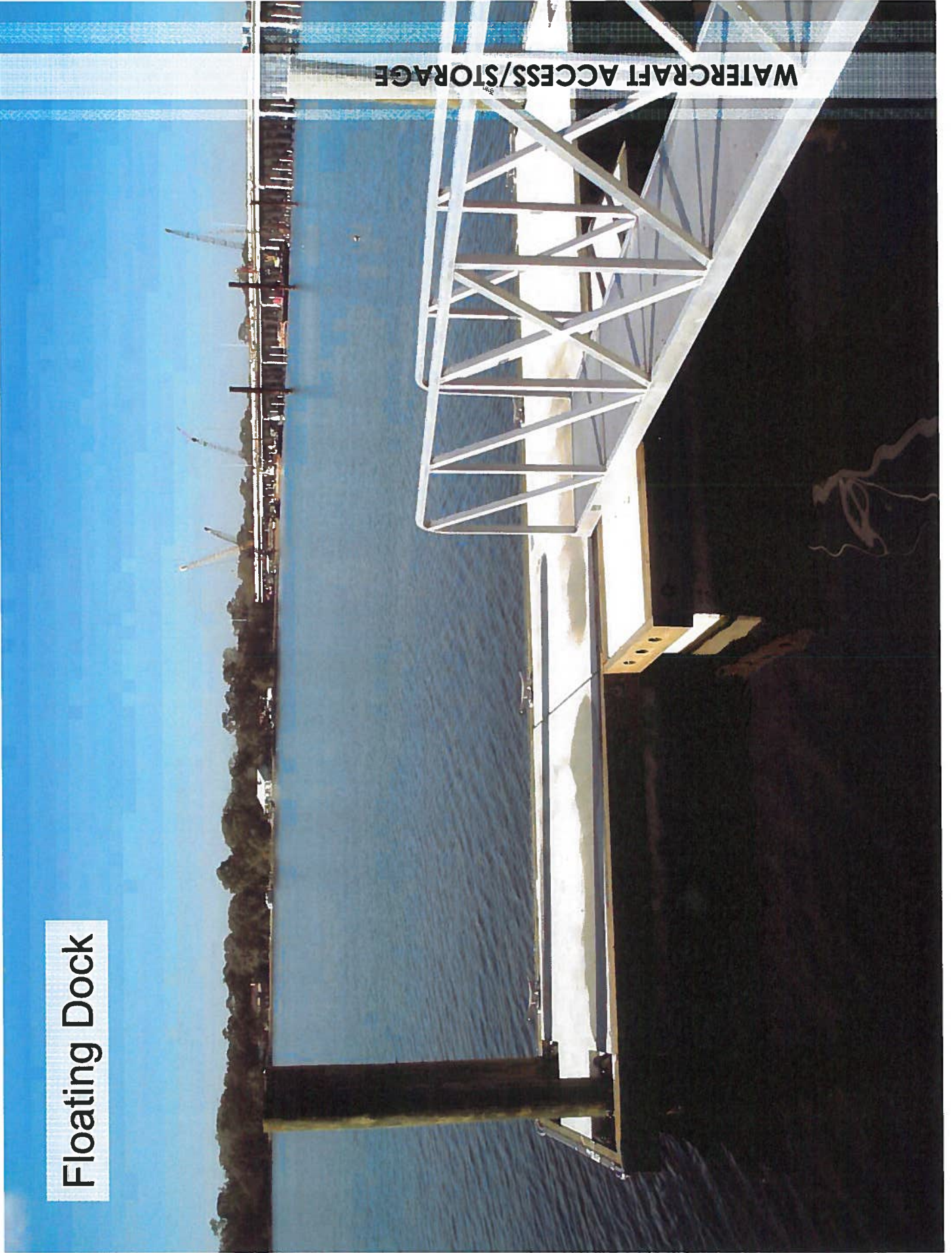
Loading Ramps and Docks



WATERCRAFT ACCESS/STORAGE

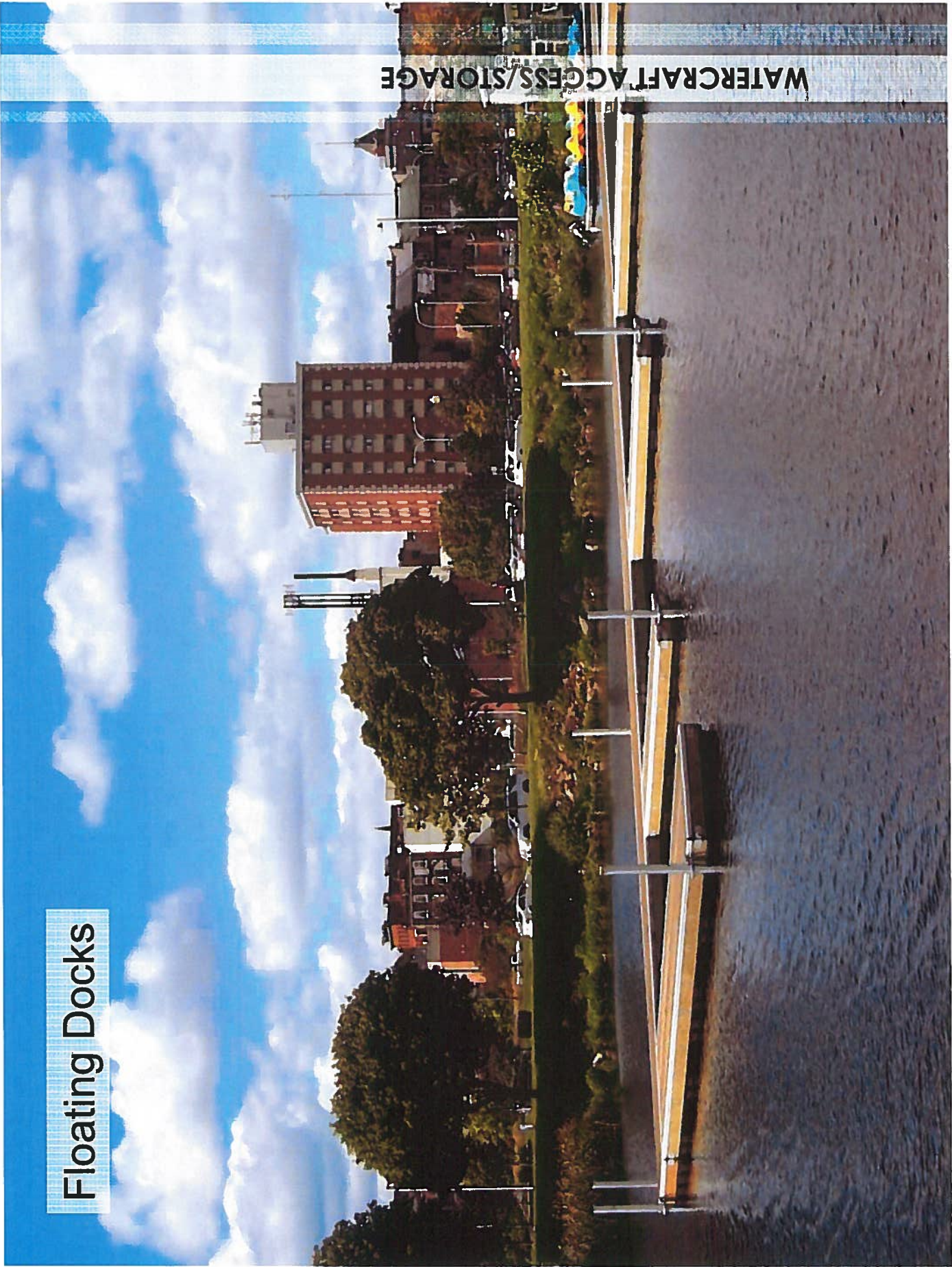
Floating Dock

WATERCRAFT ACCESS/STORAGE

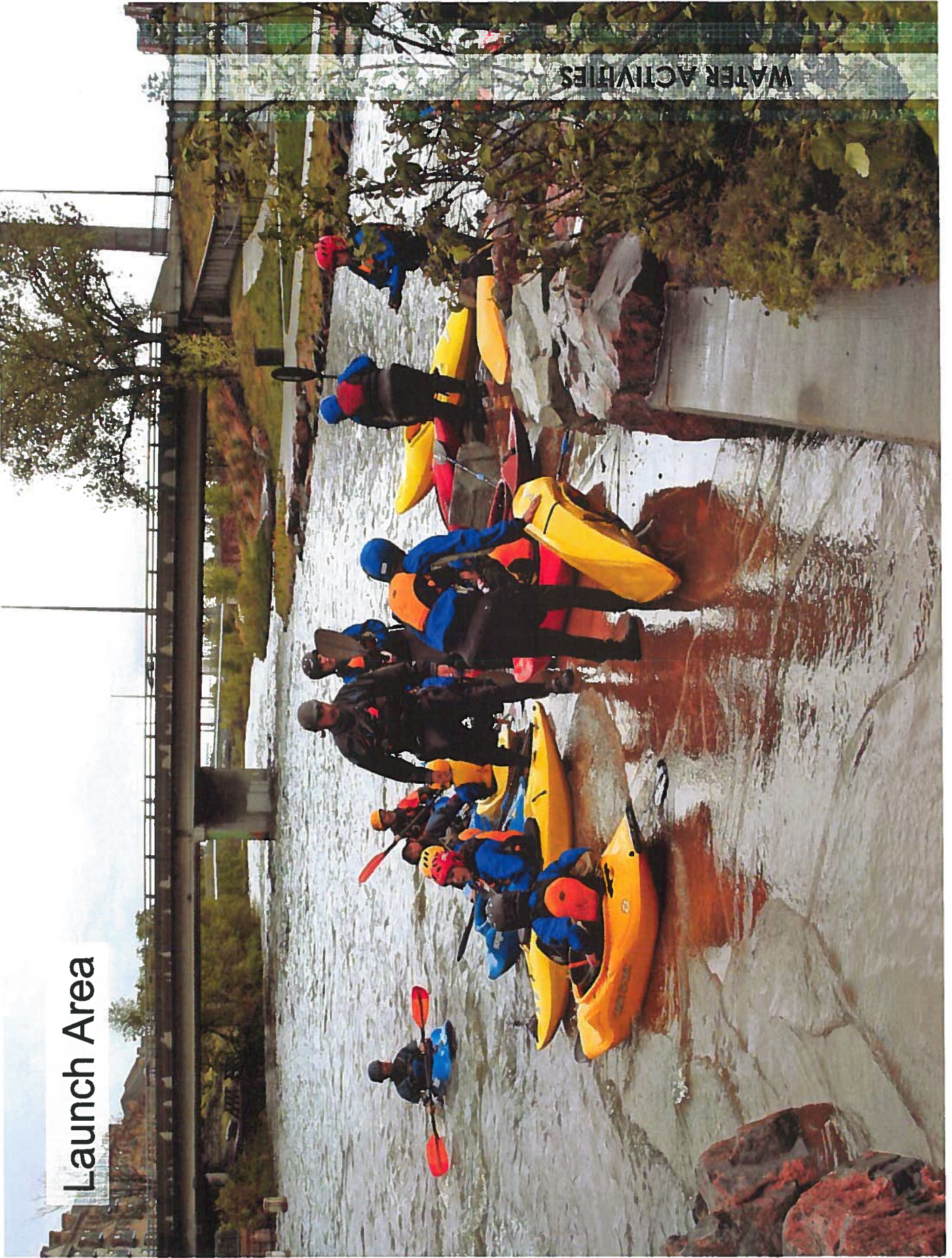


WATERCRAFT ACCESS/STORAGE

Floating Docks



WATER ACTIVITIES



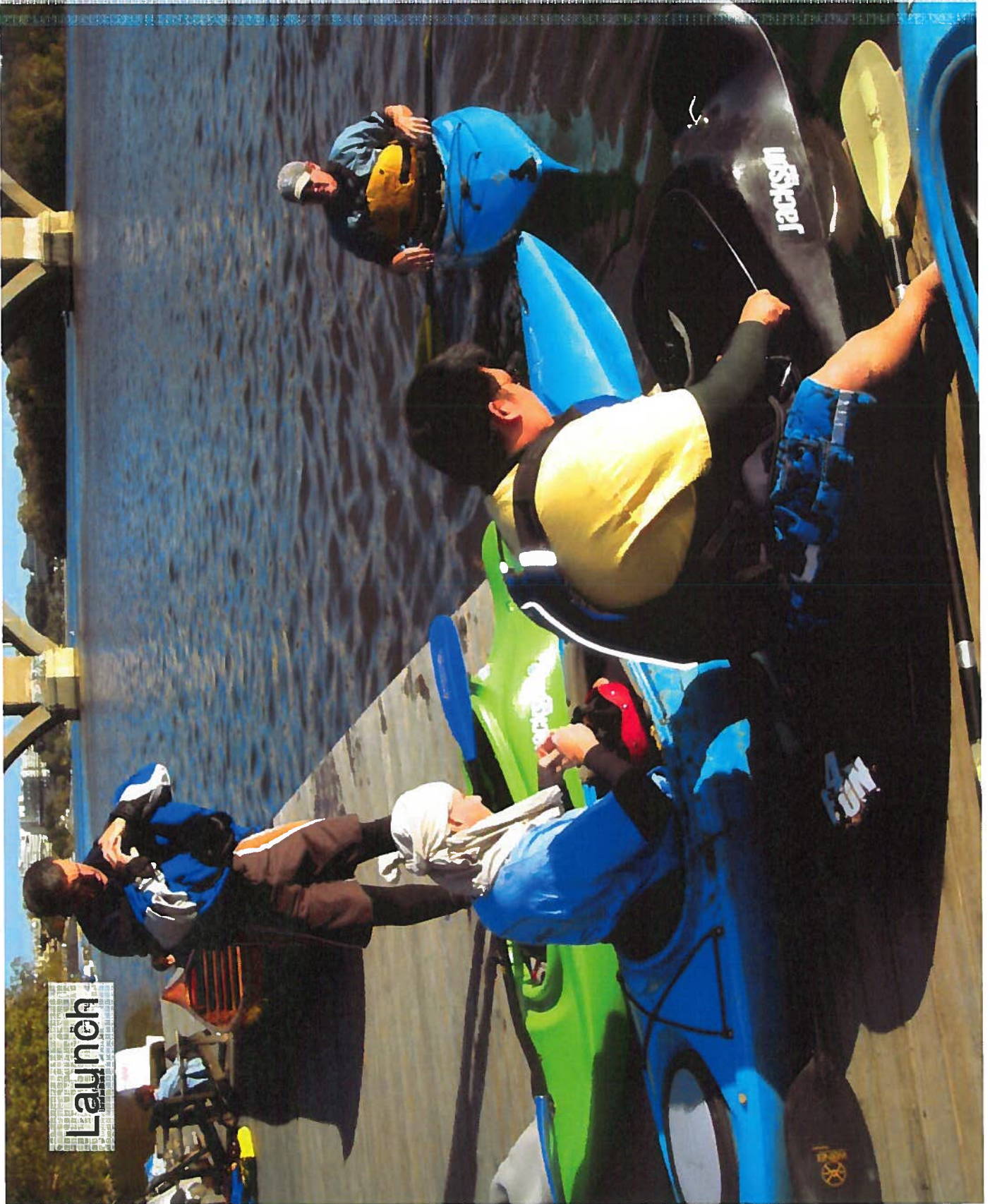
Launch Area



HARD/URBAN EDGE

Launch

WATERCRAFT ACCESS/STORAGE



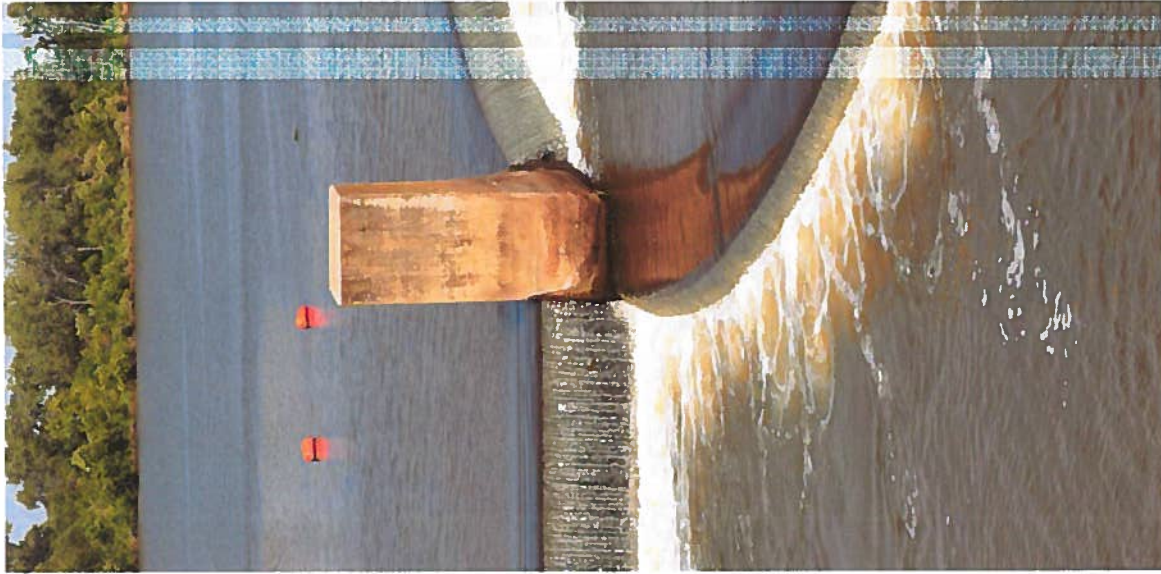
Launch

WATERCRAFT ACCESS/STORAGE



Kayak Transfer Dock

LOW WATER DAMS



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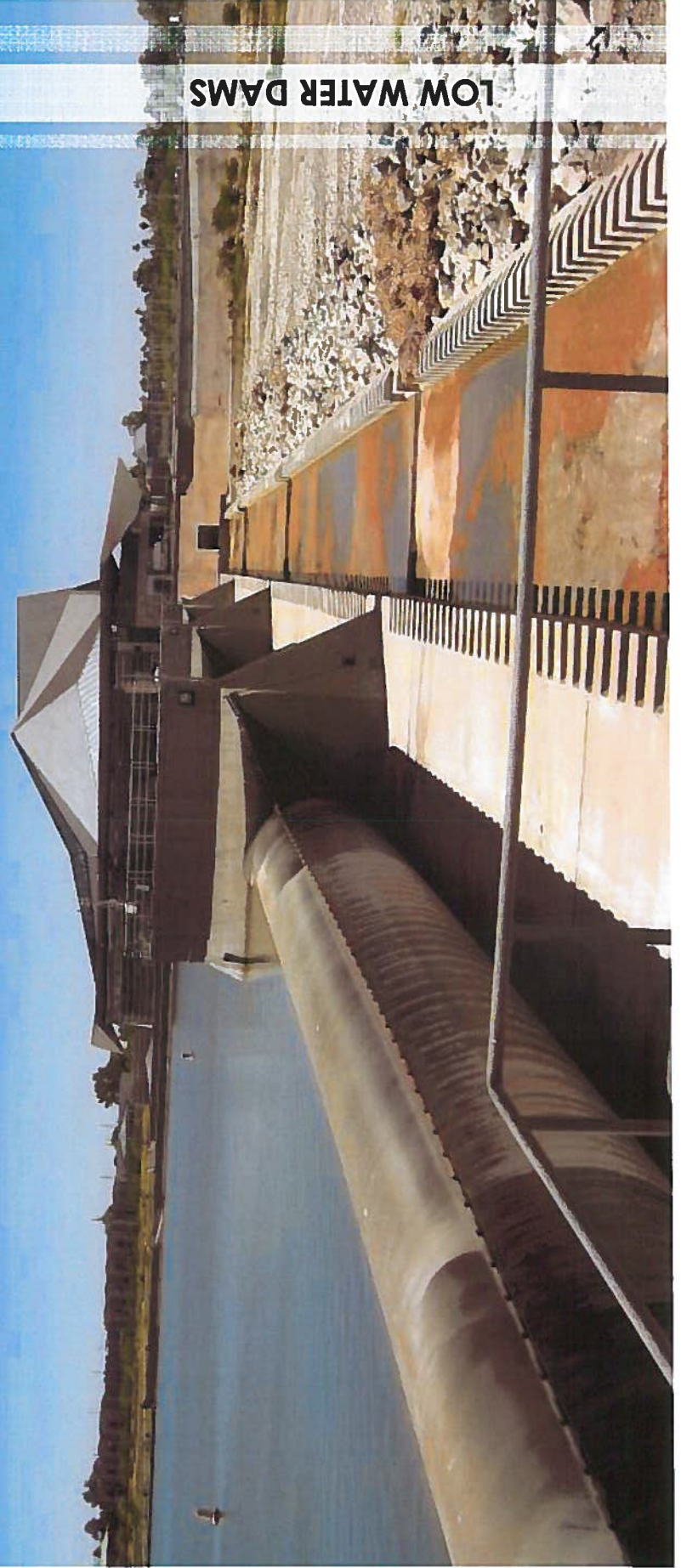
MESHEK
CIVIL & WATER RESOURCE ENGINEERING
GEORAPING INFORMATION SYSTEMS



McLaughlin Whitewater

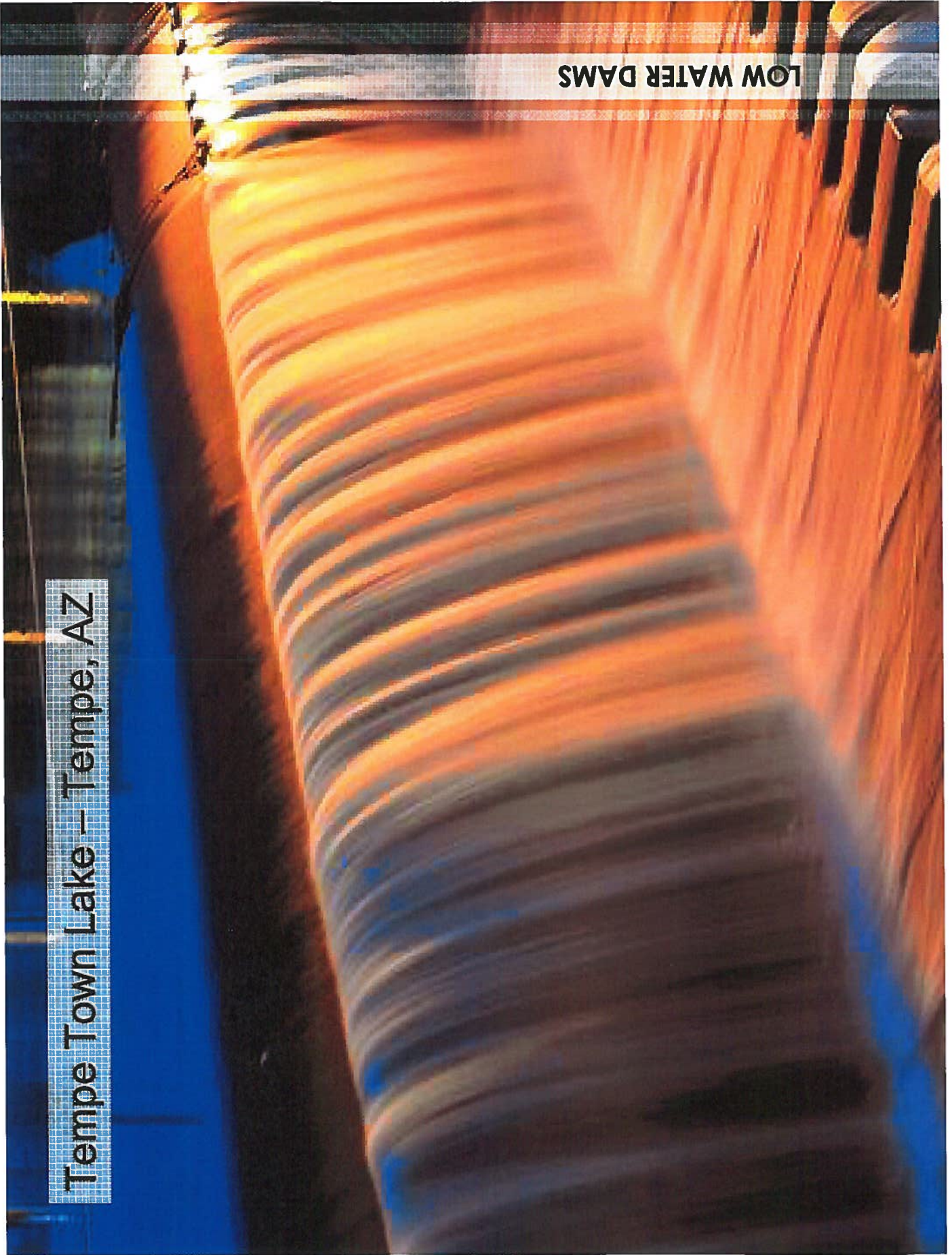
Tempe Town Lake – Tempe, AZ

LOW WATER DAMS



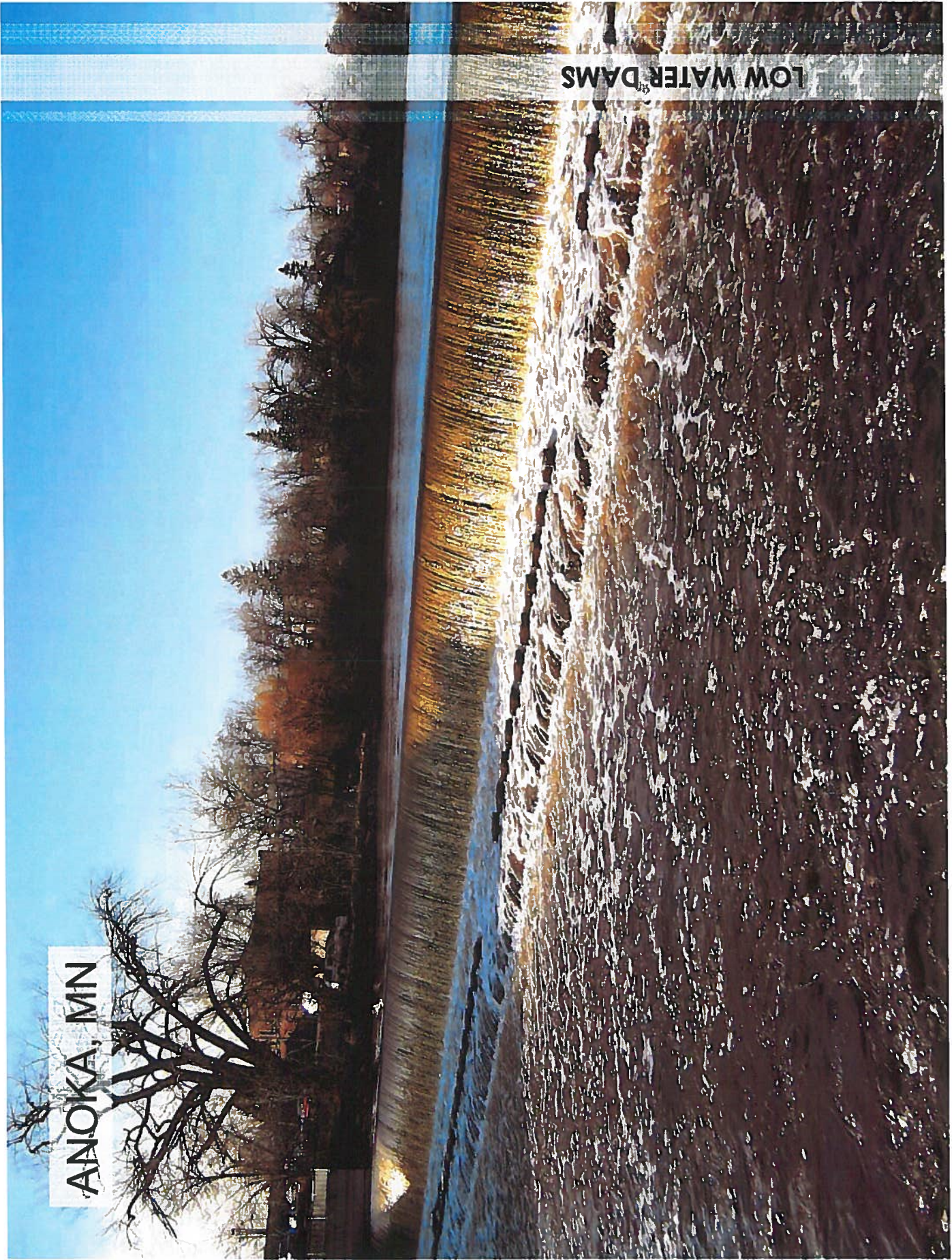
Tempe Town Lake – Tempe, AZ

LOW WATER DAMS



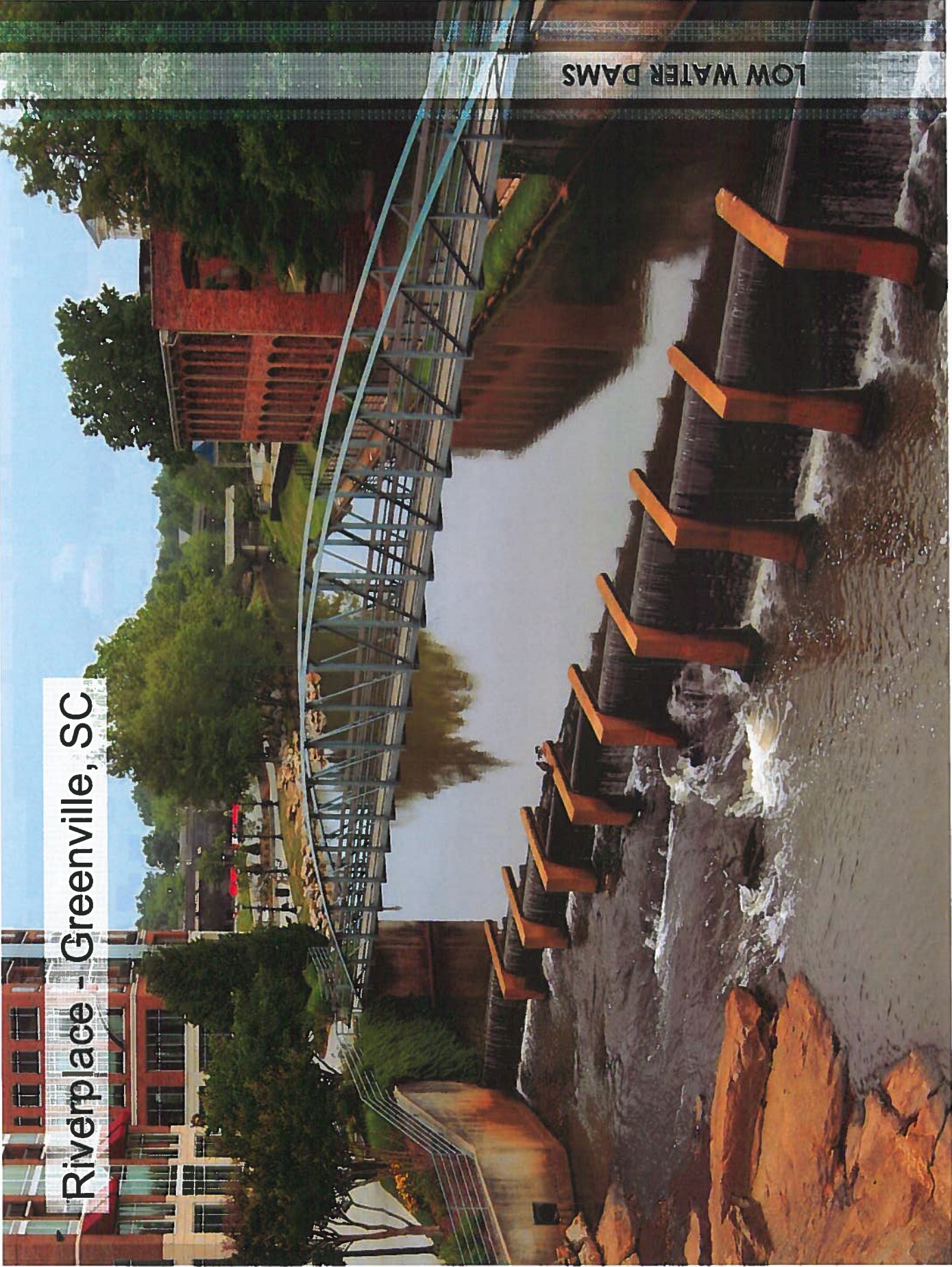
LOW WATER DAMS

ANOKA, MN



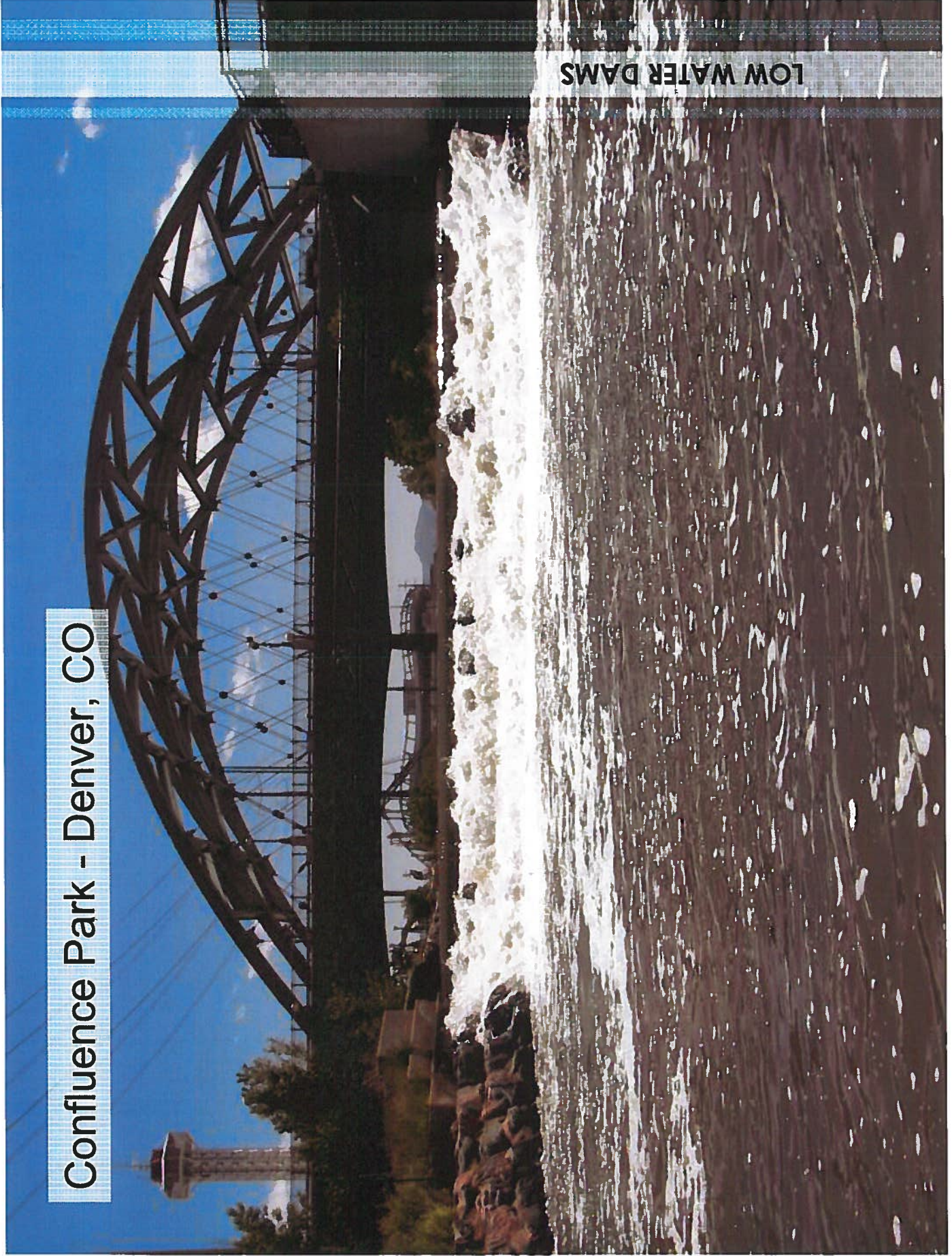
Riverplace - Greenville, SC

LOW WATER DAMS

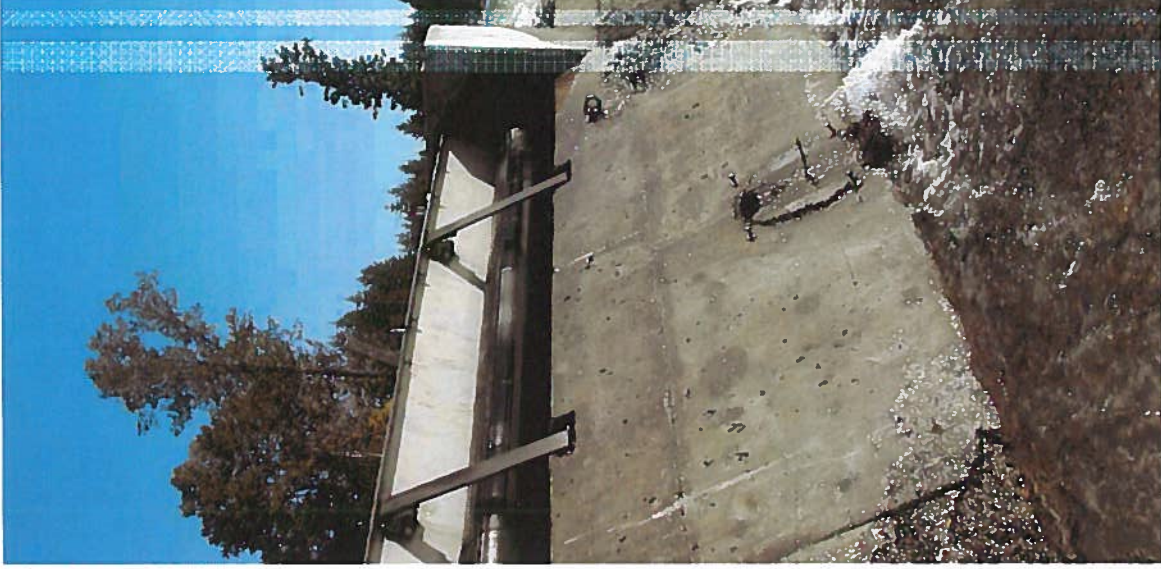


Confluence Park - Denver, CO

LOW WATER DAMS



OBERMEYER DAM GATES



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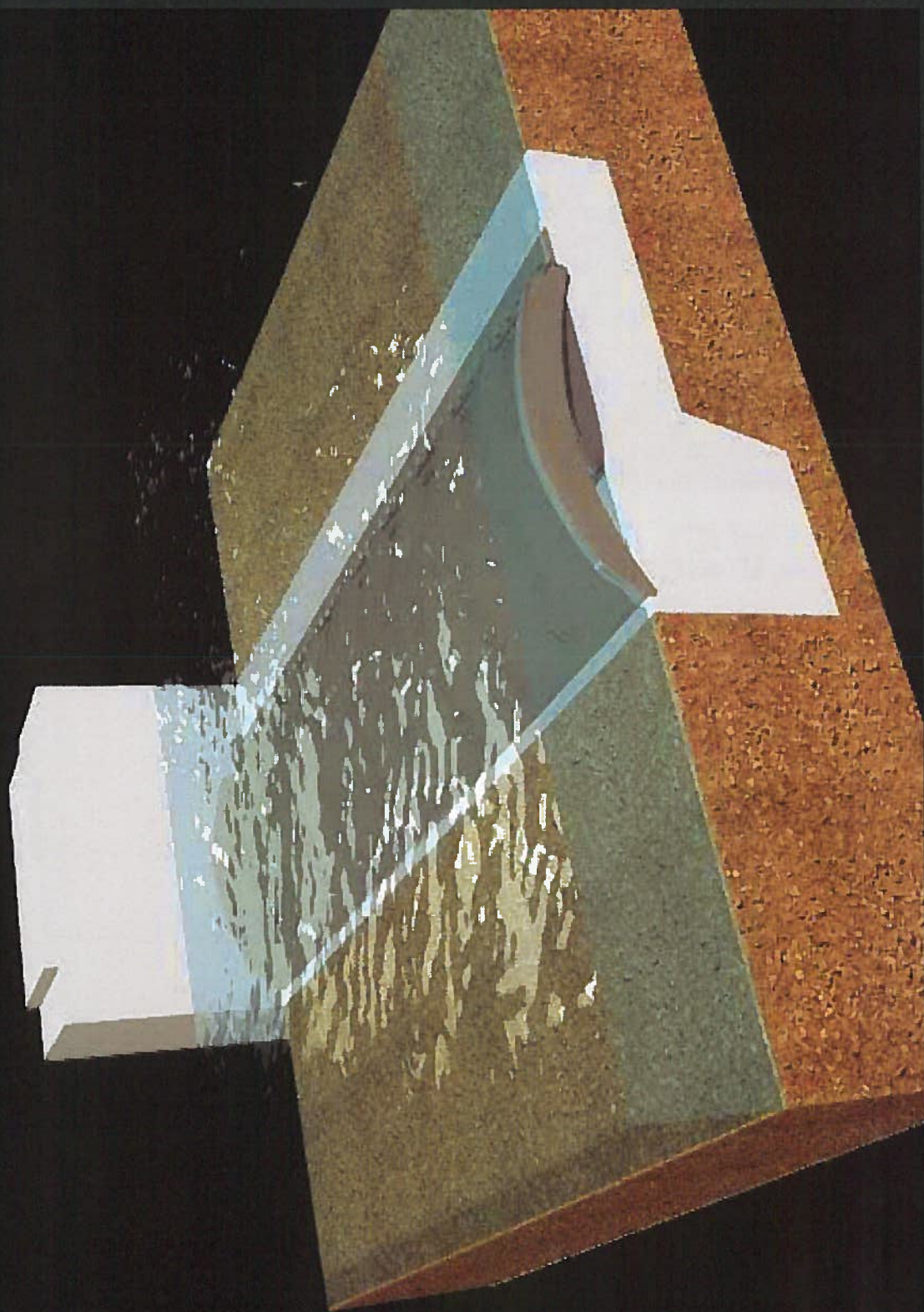


CIVIL & WATER RESOURCE ENGINEERING
REGULATORY INFORMATION SYSTEMS

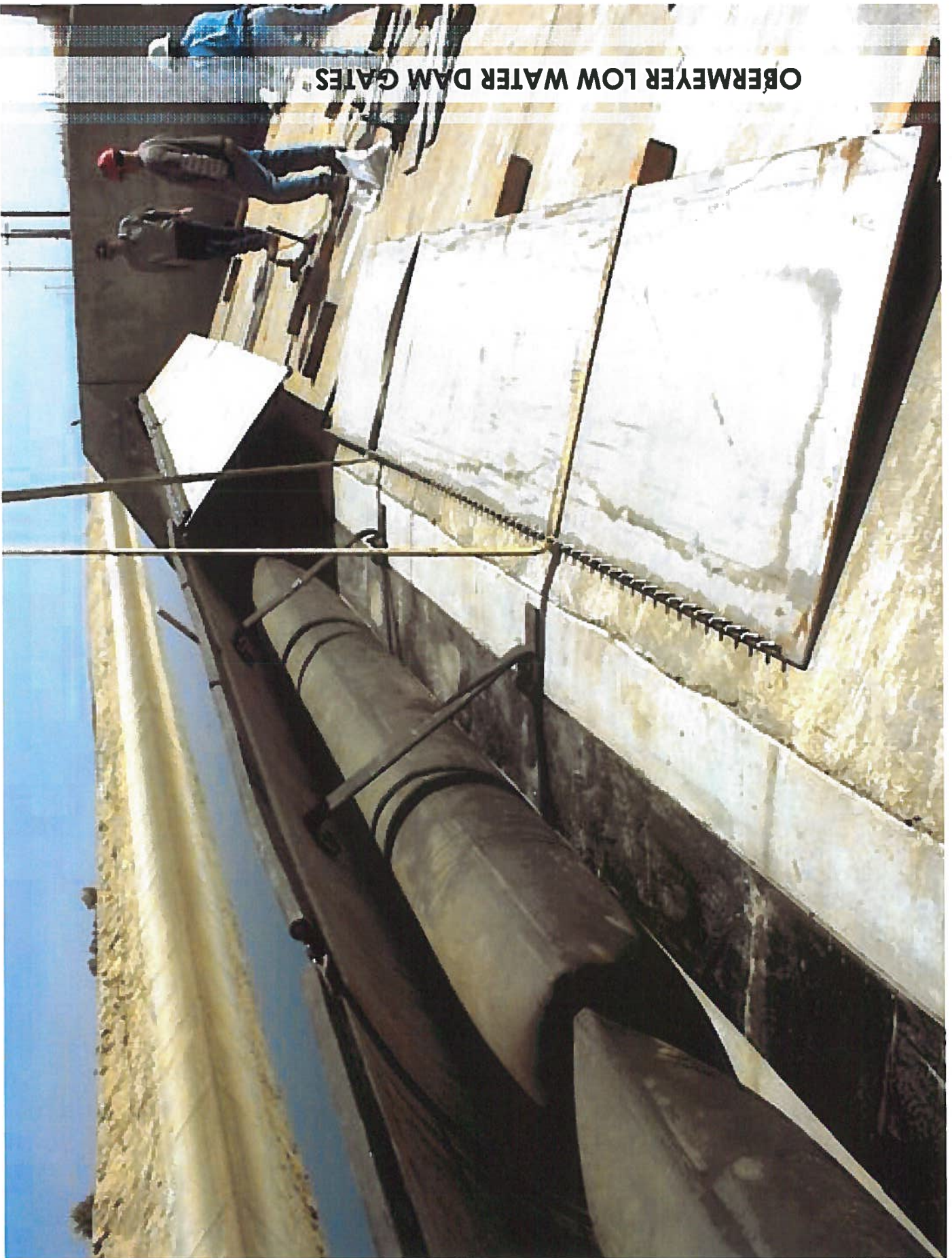


McLaughlin Whitewater

OBERMEYER LOW WATER DAM GATES



OBERMEYER LOW WATER DAM GATES



OBERMEYER LOW WATER DAM GATES



Obermeyer Gates

OBERMEYER LOW WATER DAM GATES

Obermeyer Gates

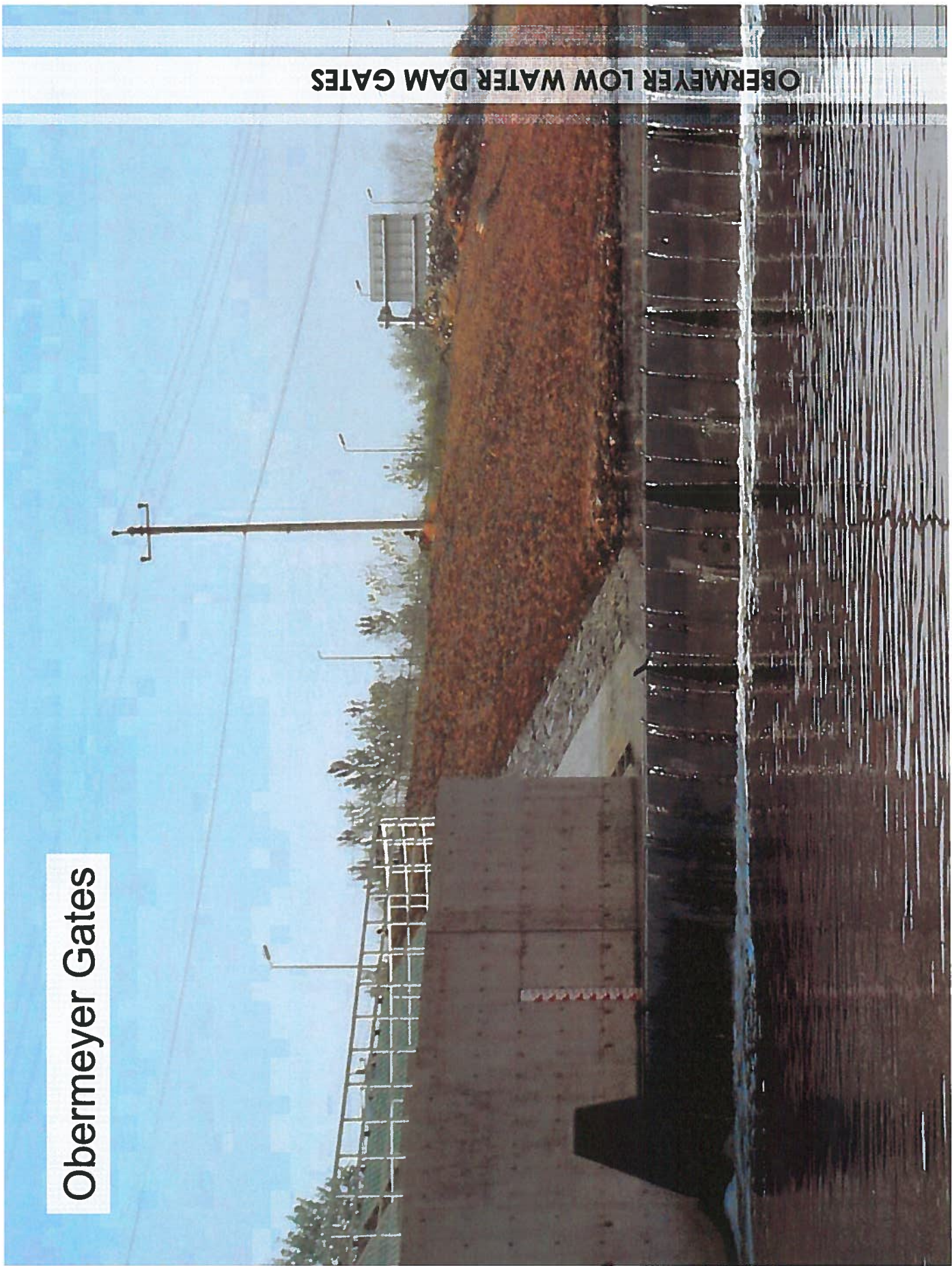


Obermeyer Crest Gates

OBERMEYER LOW WATER DAM GATES



OBERMEYER LOW WATER DAM GATES



Obermeyer Gates

GREEN LOW WATER DAMS



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CONSULTING
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MESHEK
CIVIL & WATER RESOURCE ENGINEERING
EARTHQUAKE PROTECTION SYSTEMS



McLaughlin Whitewater
CORPORATION

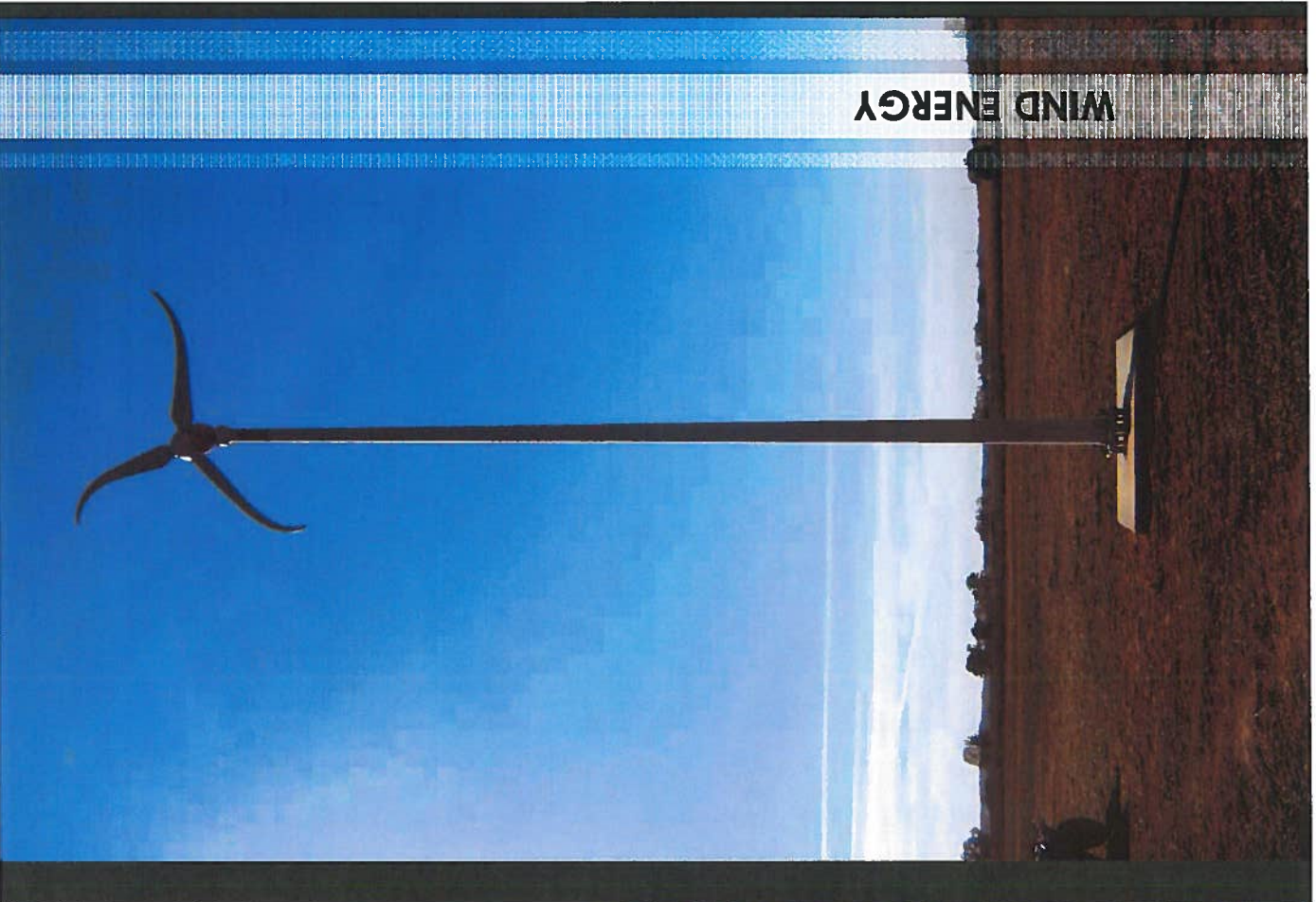
HYDROELECTRIC ENERGY



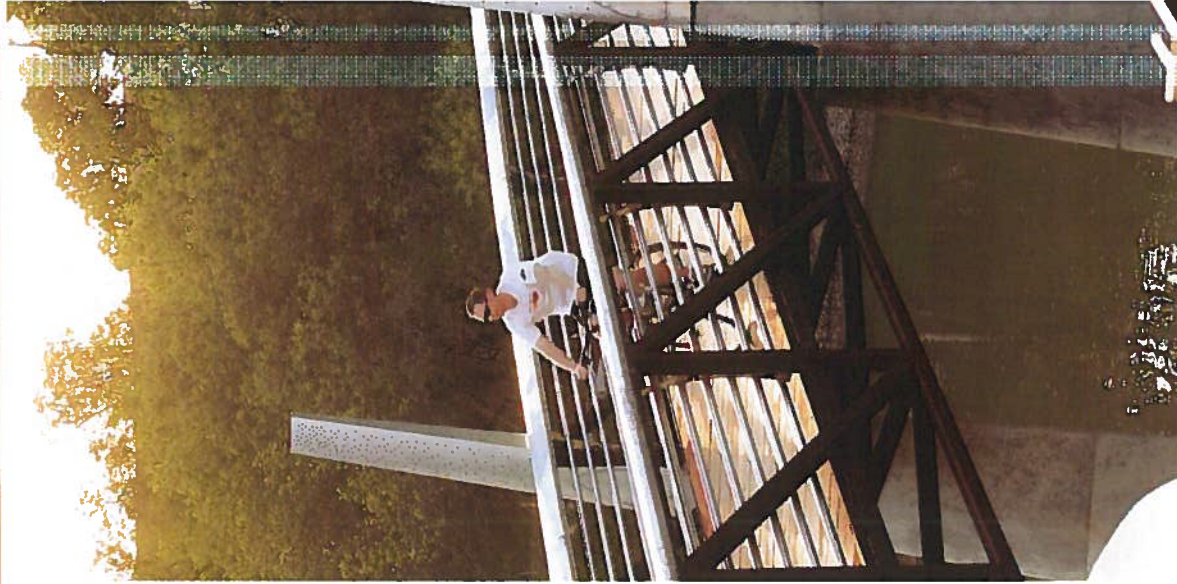
HYDROELECTRIC ENERGY



WIND ENERGY



PEDESTRIAN BRIDGES



- STANDARD BRIDGES
- FEATURE BRIDGES



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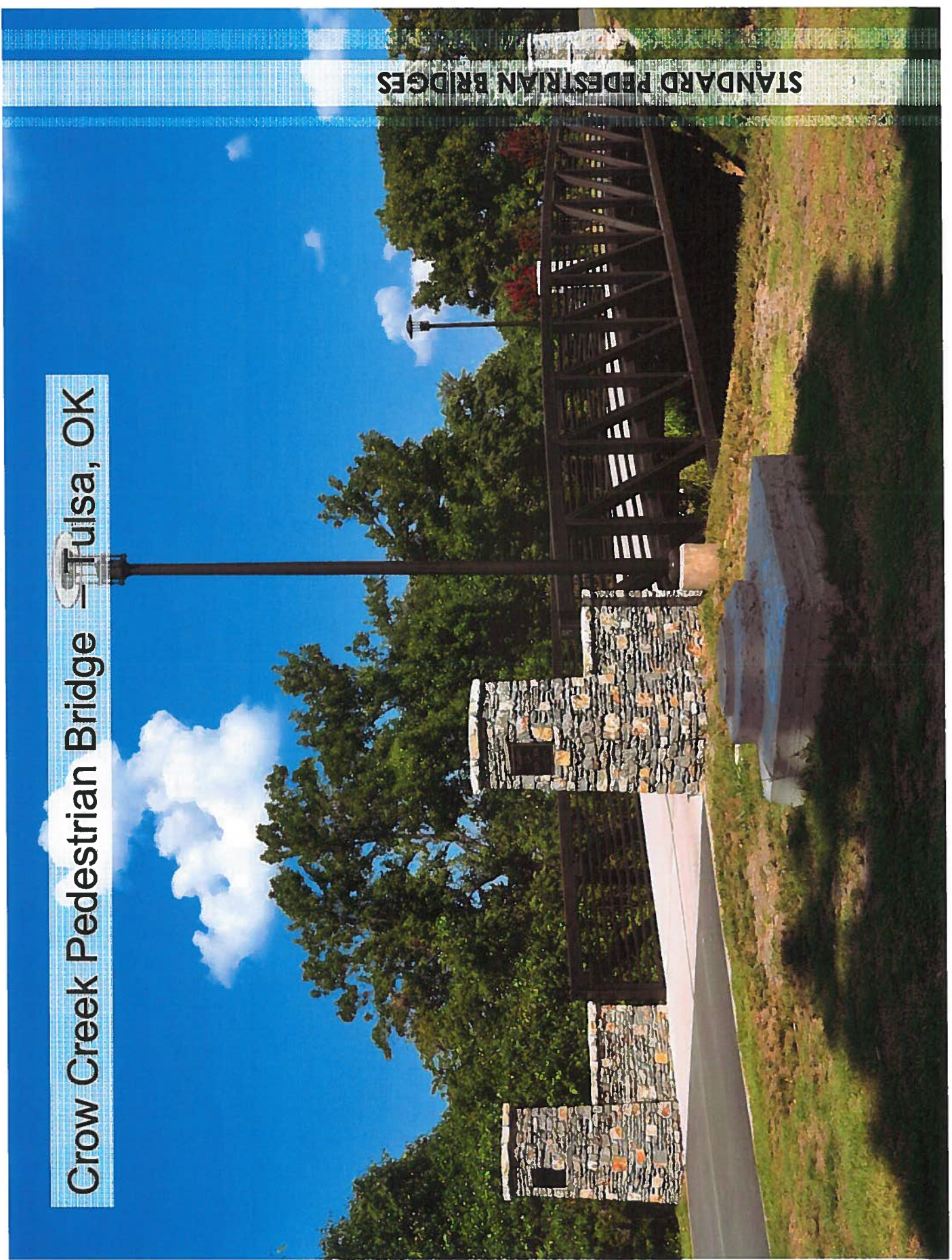
MESHEK
CIVIL & WATER RESOURCE ENGINEERING
GEOMORPHIC INFORMATION SYSTEMS



McLaughlin Whitewater
CONSULTANTS GROUP

Crow Creek Pedestrian Bridge - Tulsa, OK

STANDARD PEDESTRIAN BRIDGES

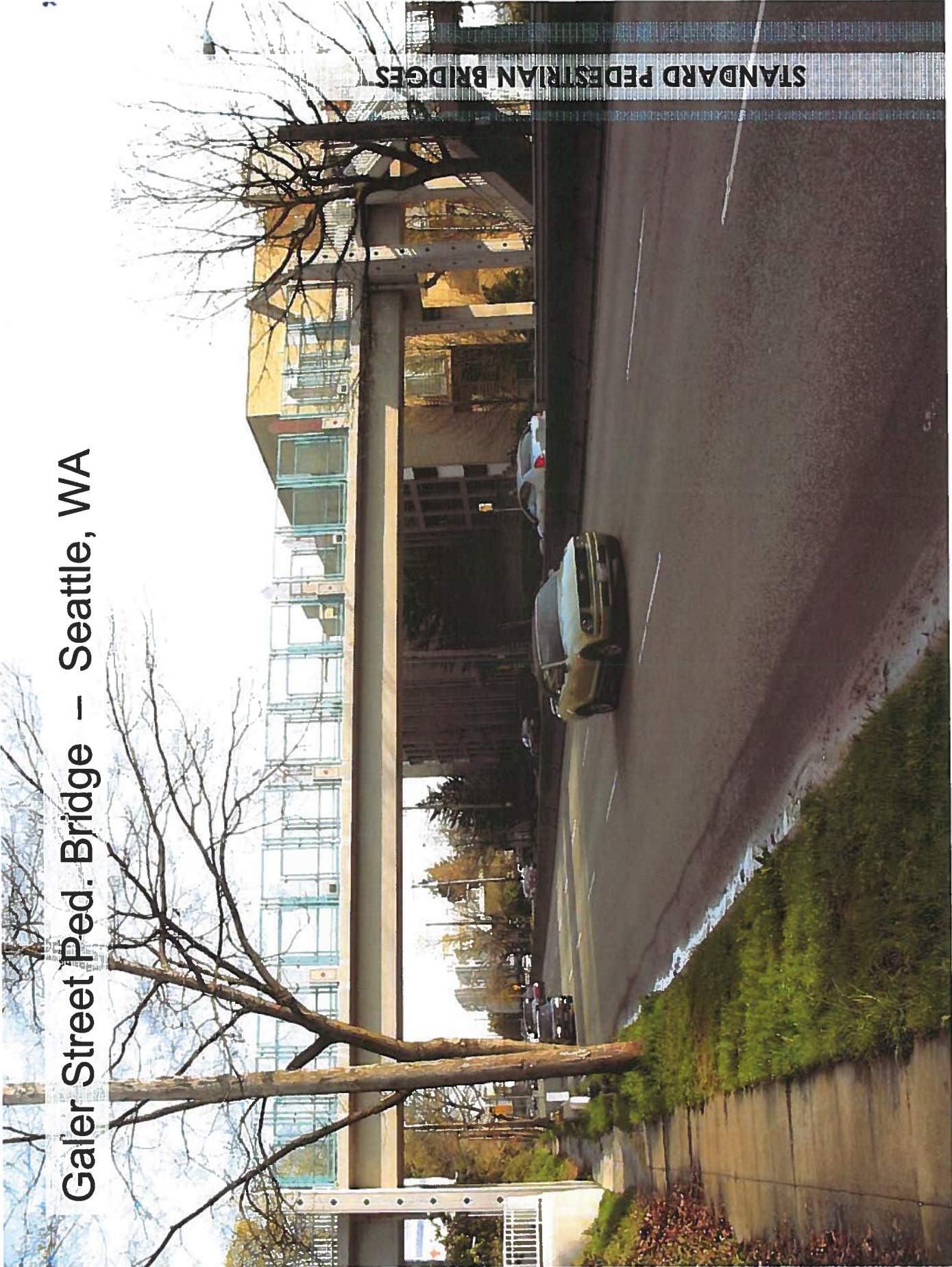


Pedestrian Bridge – Lincoln, NE



STANDARD PEDESTRIAN BRIDGES

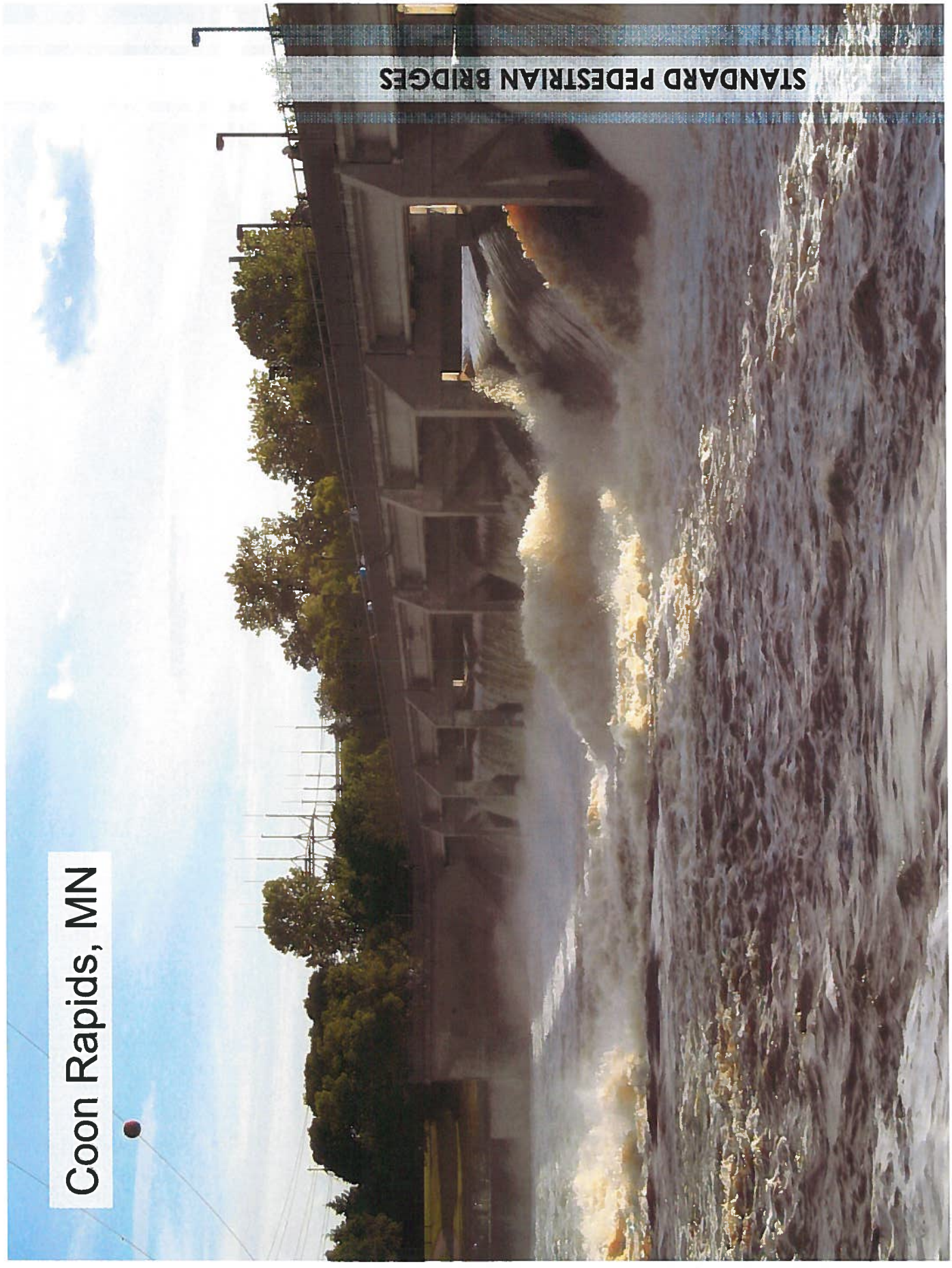
Galer Street Ped. Bridge - Seattle, WA



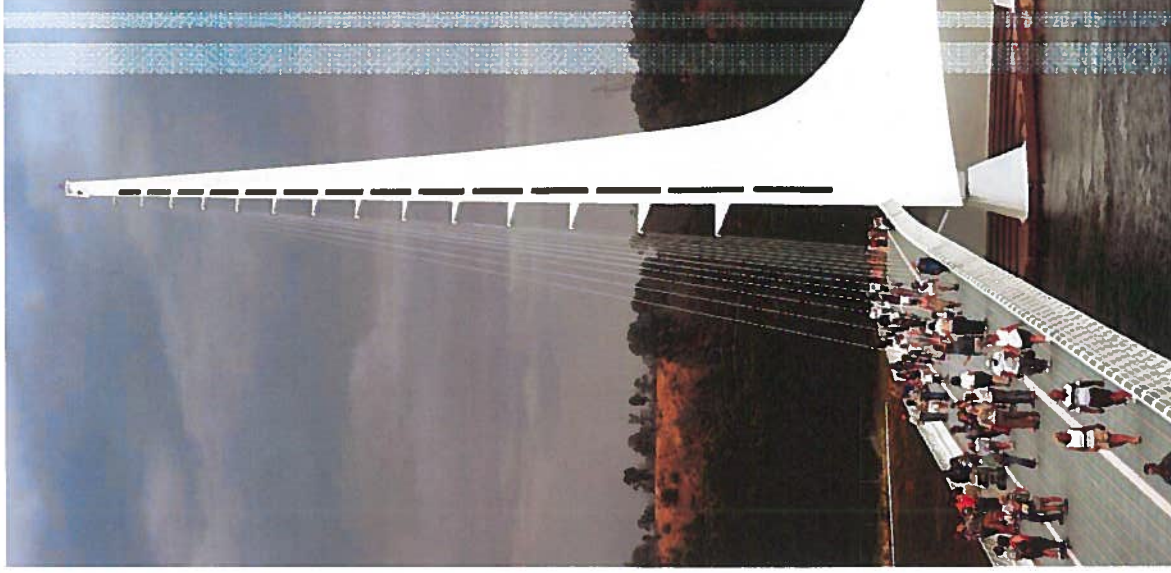
STANDARD PEDESTRIAN BRIDGES

Coon Rapids, MN

STANDARD PEDESTRIAN BRIDGES



PEDESTRIAN BRIDGES



- STANDARD BRIDGES
- FEATURE BRIDGES



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CIVIL & WATER RESOURCE ENGINEERING
GEOTECHNICAL INFORMATION SYSTEMS



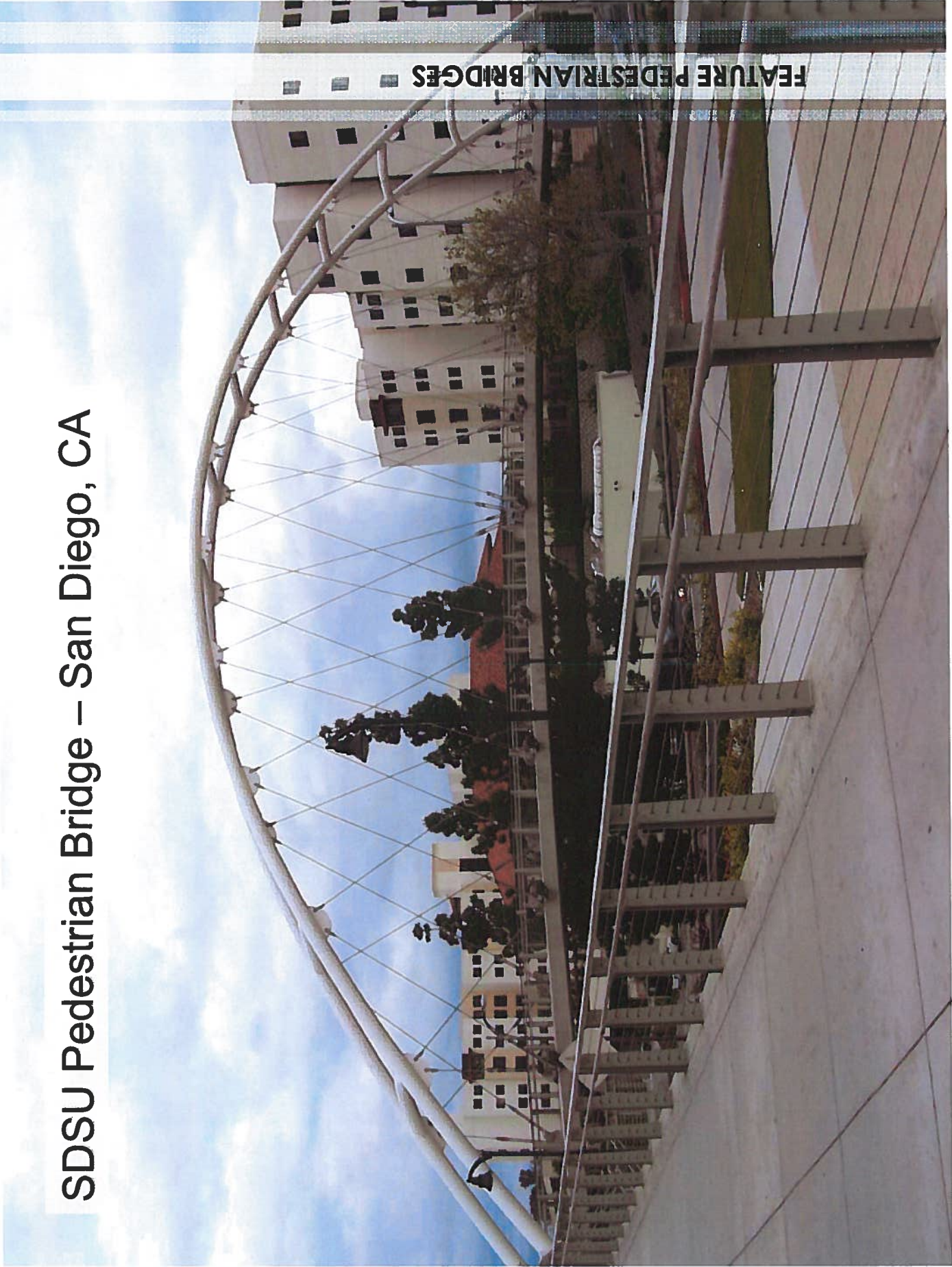
McLaughlin Whitewater
CONSULTANTS

Reedy Creek Bridge – Raleigh, NC



FEATURE PEDESTRIAN BRIDGES

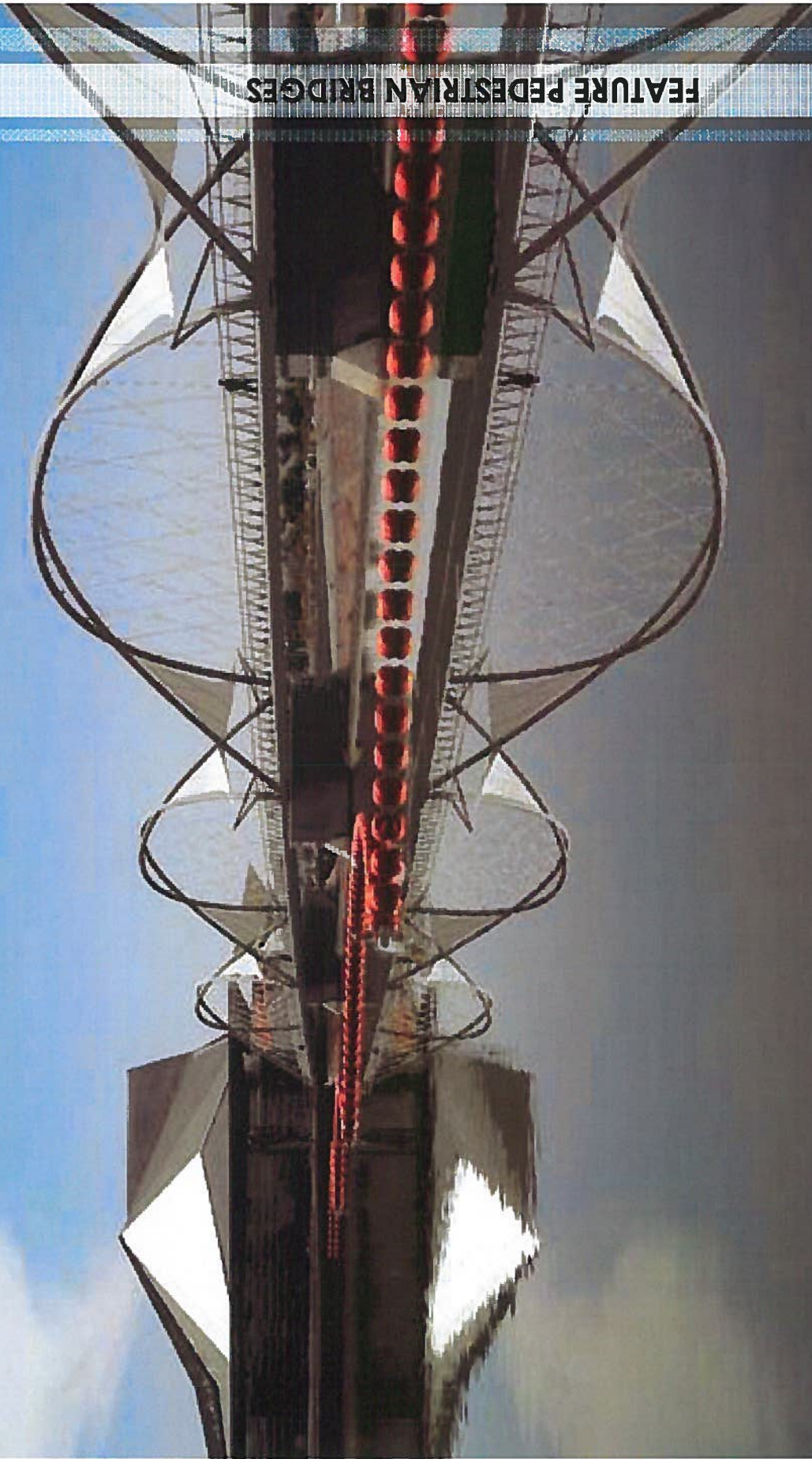
SDSU Pedestrian Bridge – San Diego, CA



FEATURE PEDESTRIAN BRIDGES

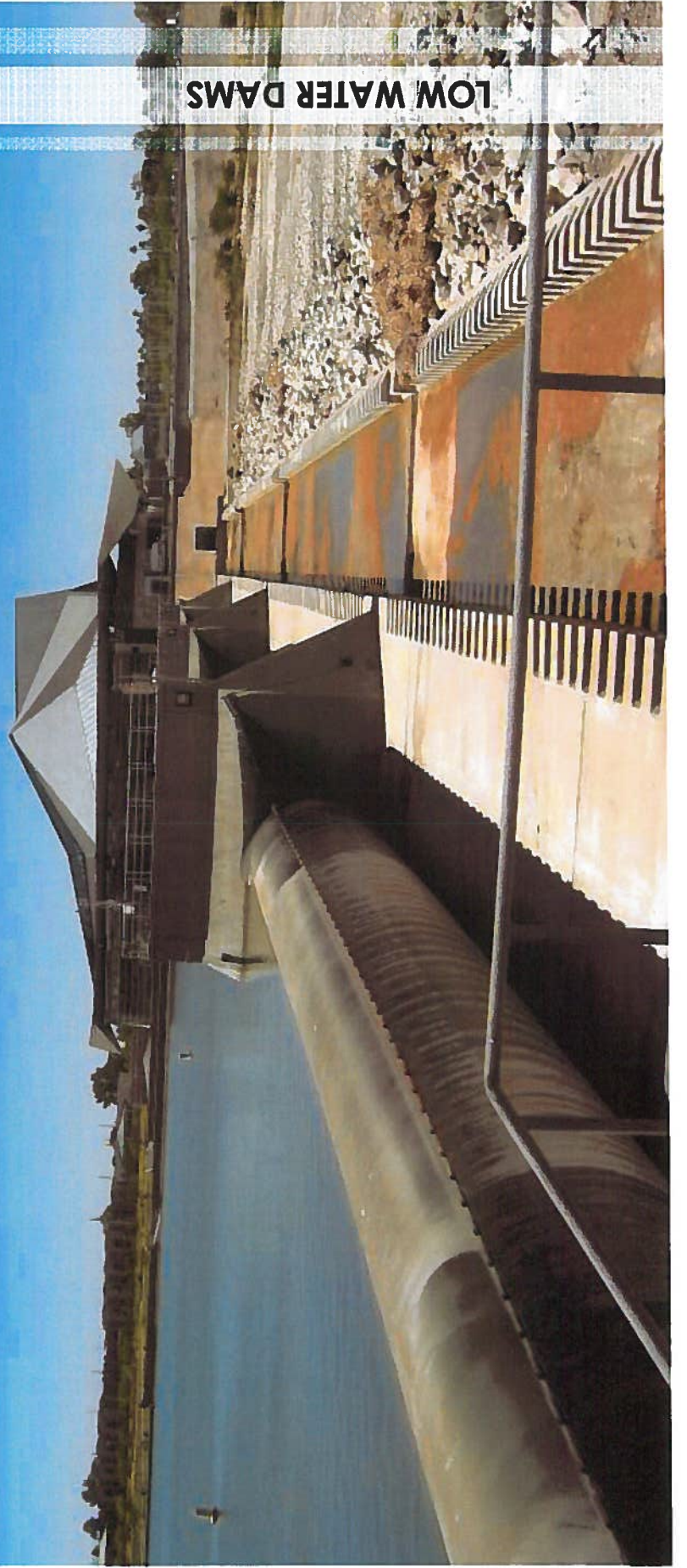
Tempe Town Lake Bridge – Tempe, AZ

FEATURE PEDESTRIAN BRIDGES



Tempe Town Lake – Tempe, AZ

LOW WATER DAMS



LOW WATER DAM

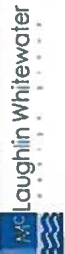


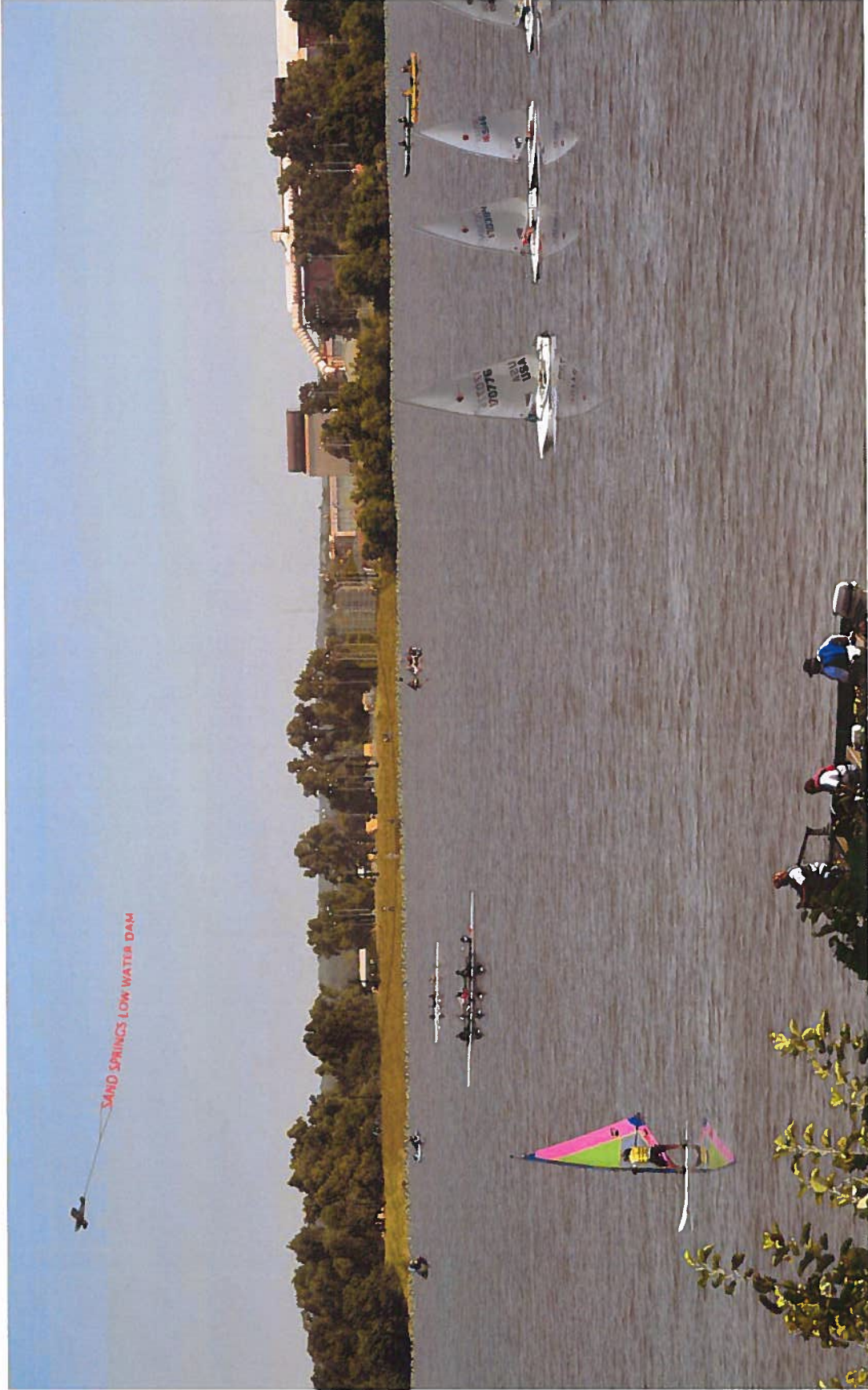
- SAND SPRINGS
- ZINK LAKE
- SOUTH TULSA/JENKS





SAND SPRINGS LOW WATER DAM
 SEPTEMBER 9, 2009





SAND SPRINGS LOW WATER DAM

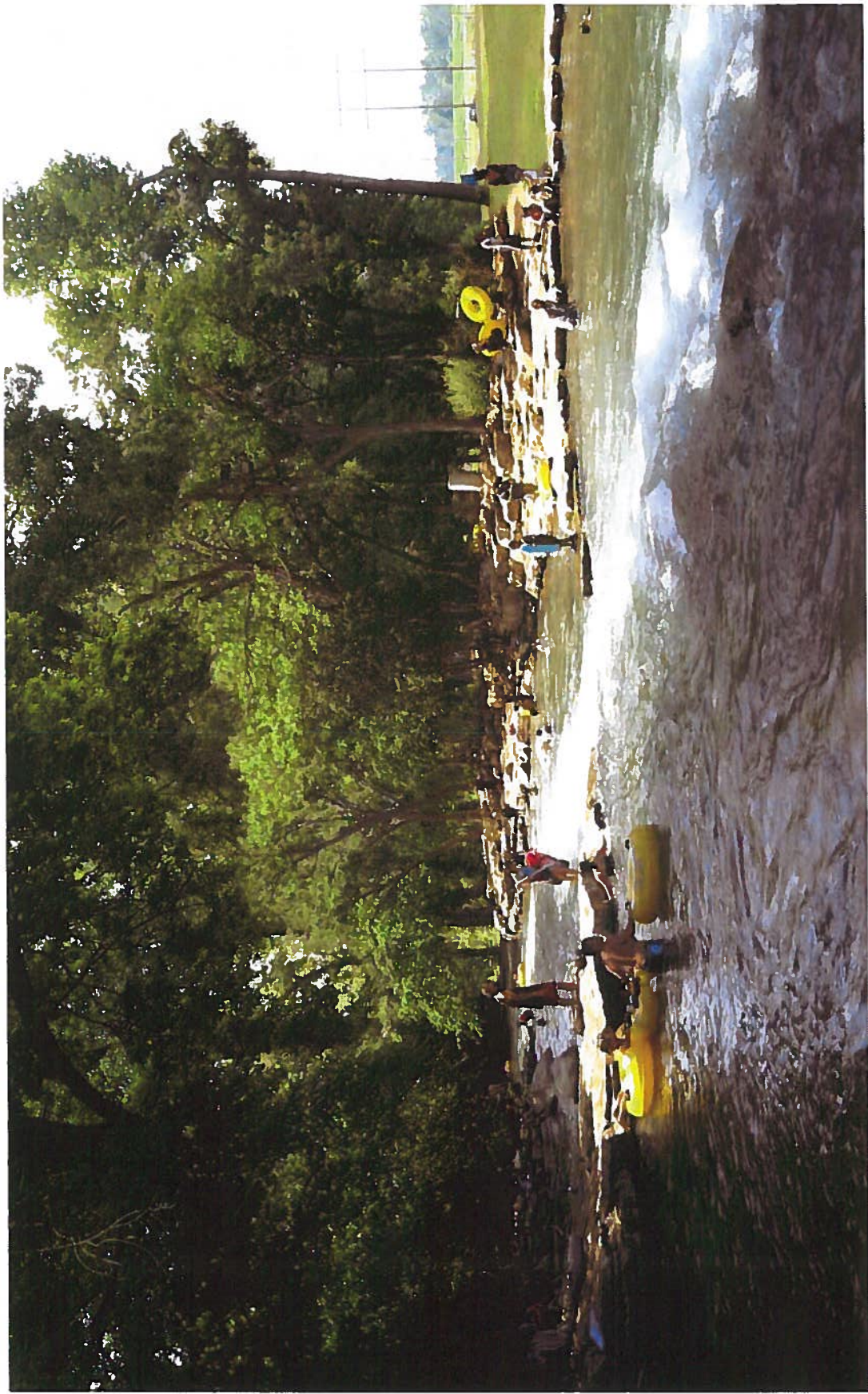
SAND SPRINGS LAKE AREA
SEPTEMBER 9, 2009

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SAND SPRINGS MARINA CONCEPT
SEPTEMBER 9, 2009



SAND SPRINGS RECREATION CONCEPT
SEPTEMBER 9, 2009

 **CH2MHILL**

 **M&T**
MEMPHIS & TENNESSEE
MEMPHIS & TENNESSEE
MEMPHIS & TENNESSEE

 **Laughlin Whitewater**

LOW WATER DAM



- SAND SPRINGS
- ZINK LAKE
- SOUTH TULSA/JENKS



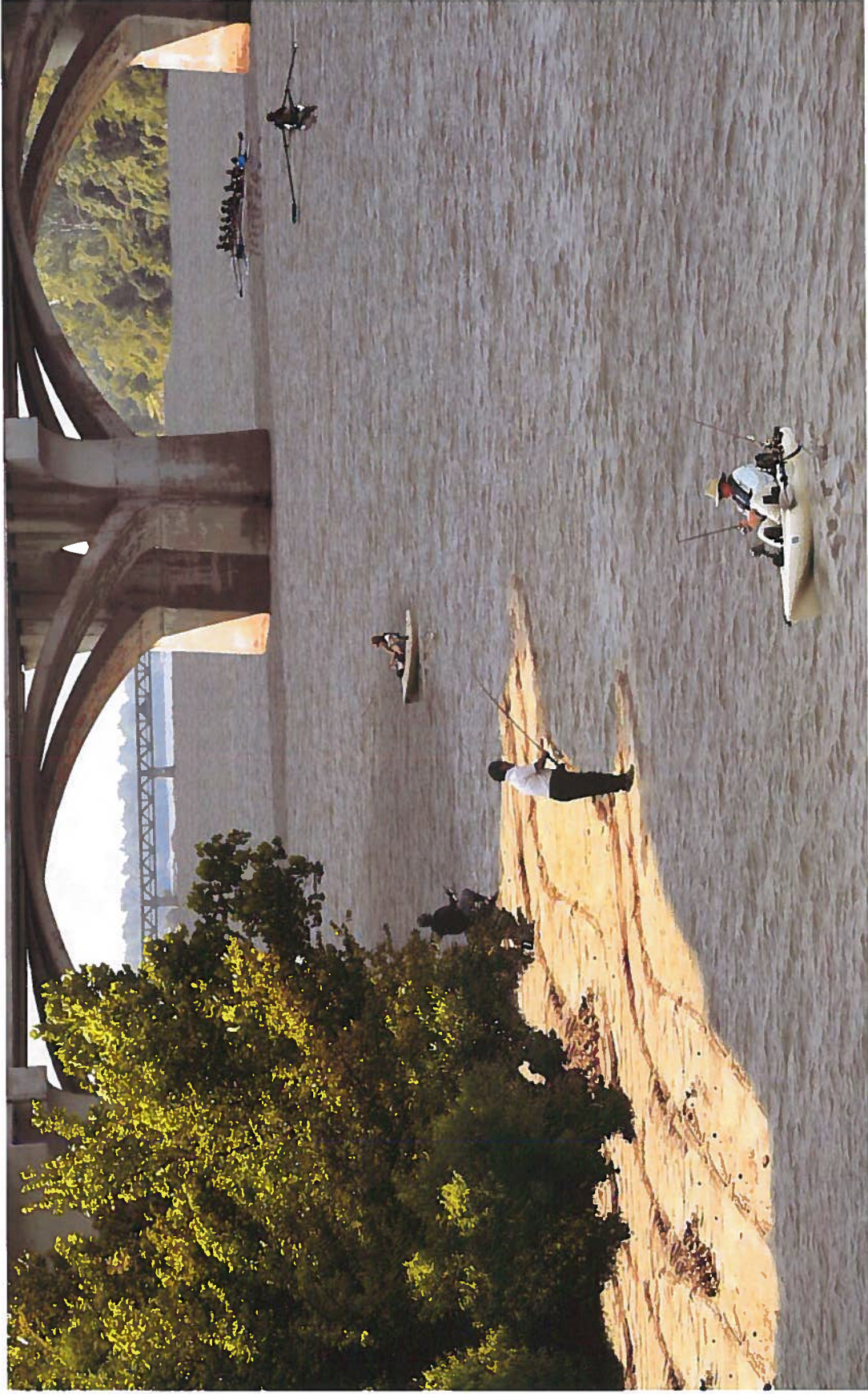
CH2MHILL



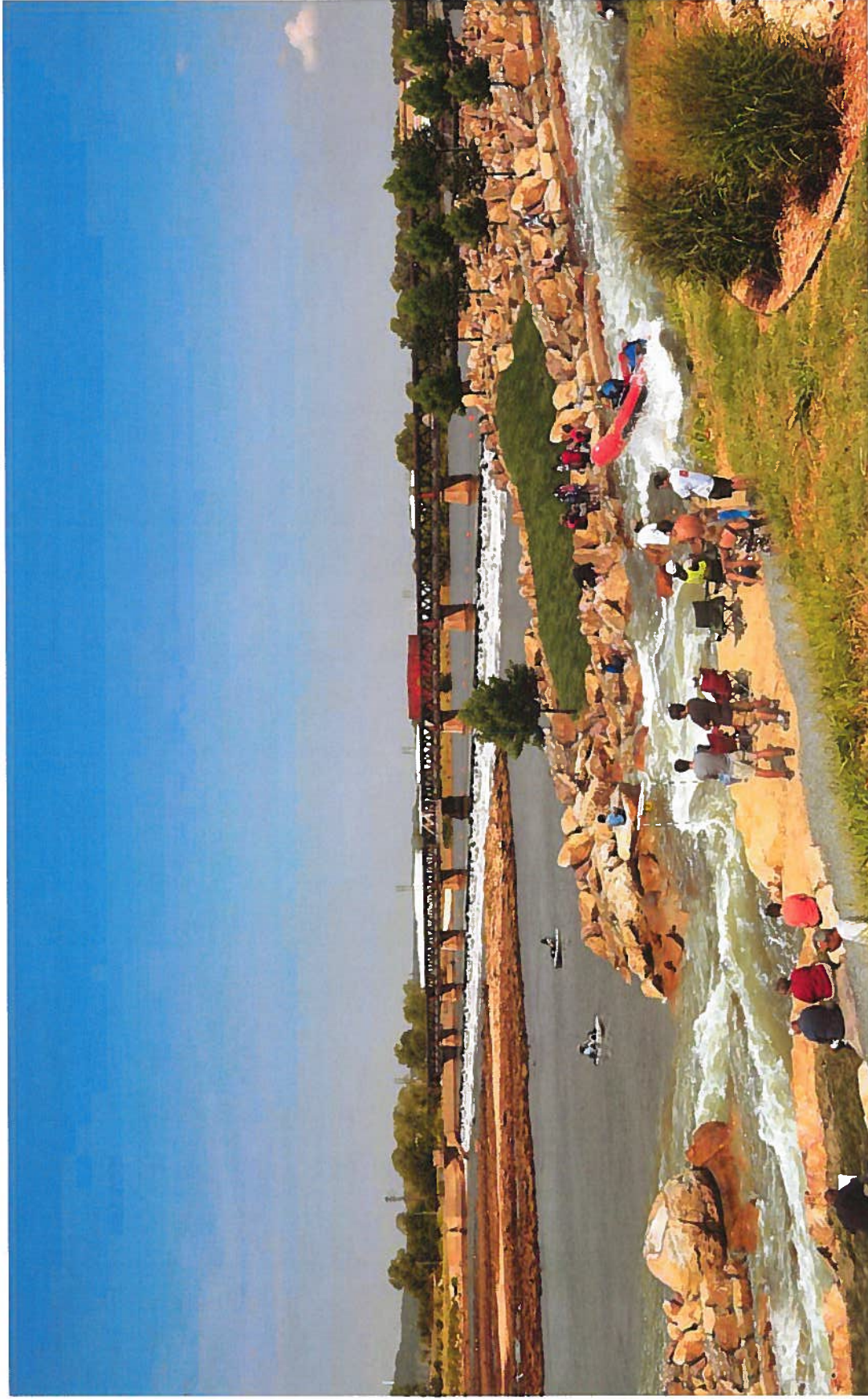


ZINK LAKE AREA
SEPTEMBER 9, 2009

CH2MHILL    



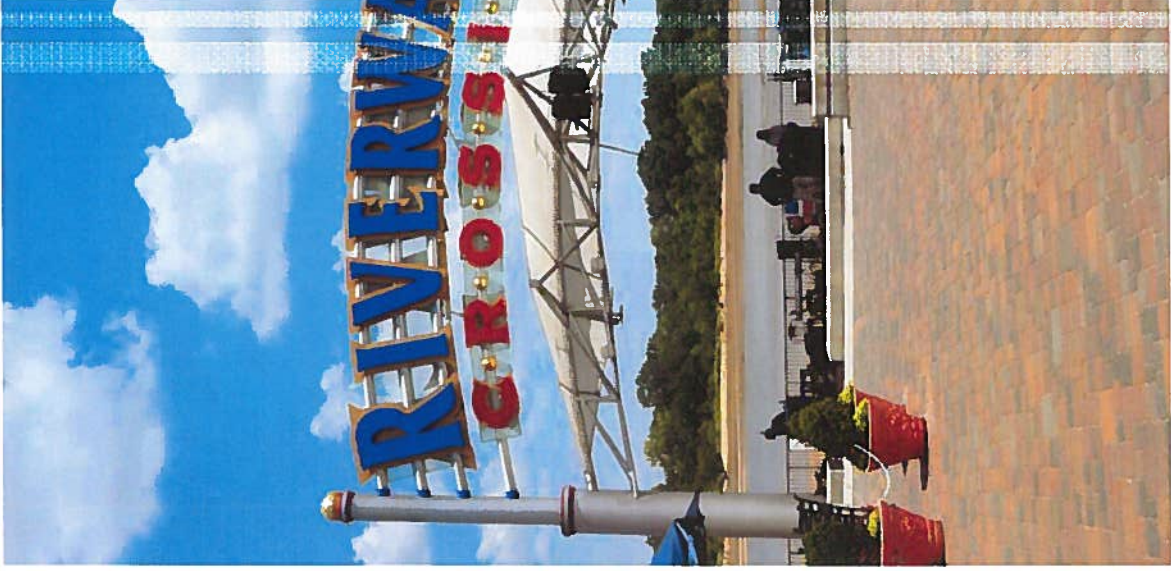
ZINK LAKE AREA
SEPTEMBER 9, 2009



ZINK LOW WATER DAM
SEPTEMBER 9, 2009

CH2MHILL    

LOW WATER DAM



- SAND SPRINGS
- ZINK LAKE
- SOUTH TULSA/JENKS



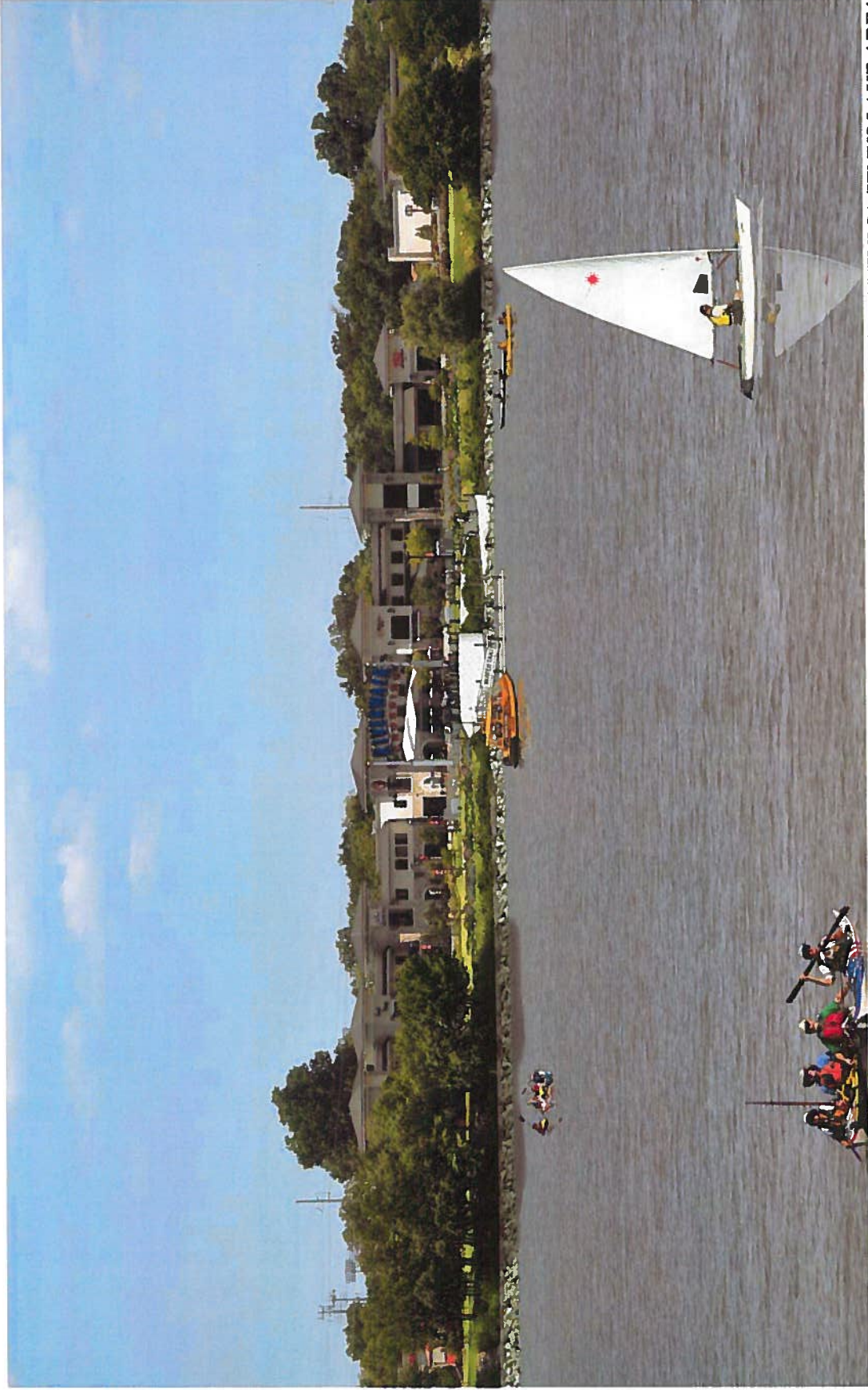
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McLaughlin Whitewater
CONSULTANTS INCORPORATED



SOUTH TULSA/JENKS LAKE AREA
SEPTEMBER 9, 2009



SOUTH TULSA/JENKS LAKE AREA
SEPTEMBER 9, 2009

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 U.S. Environmental Protection Agency

 Laughlin Whitewater



SOUTH TULSA/JENKS VENSEL MARINA CONCEPT
SEPTEMBER 9, 2009

 **CH2MHILL**

 **TULSA COUNTY**

 **Laughlin Whitewater**

 **AMERICAN WHITewater**

NATURAL ACCESS AREAS



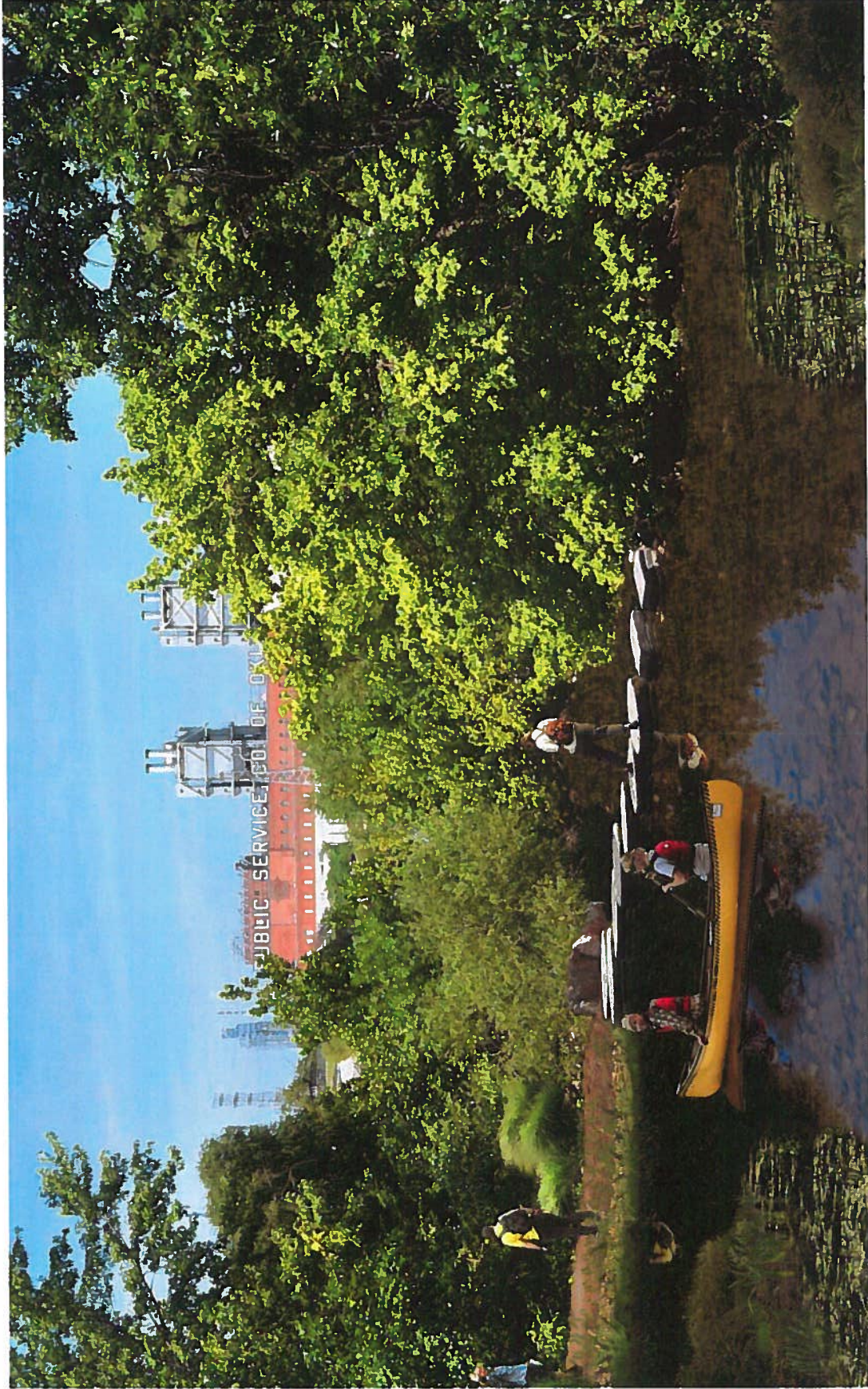
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ARKANSAS RIVER NATURE WALK
SEPTEMBER 9, 2009

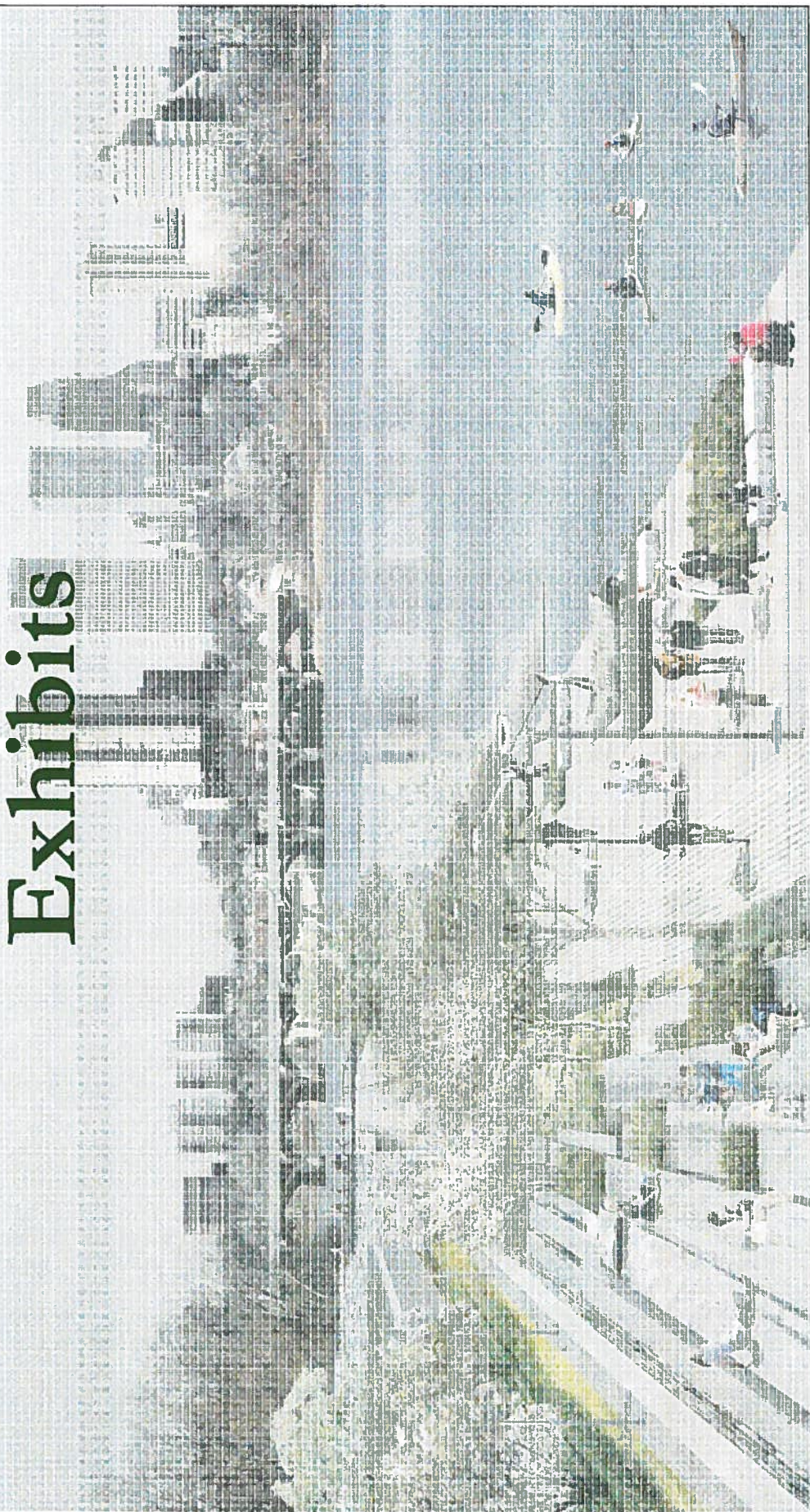
CH2MHILL    



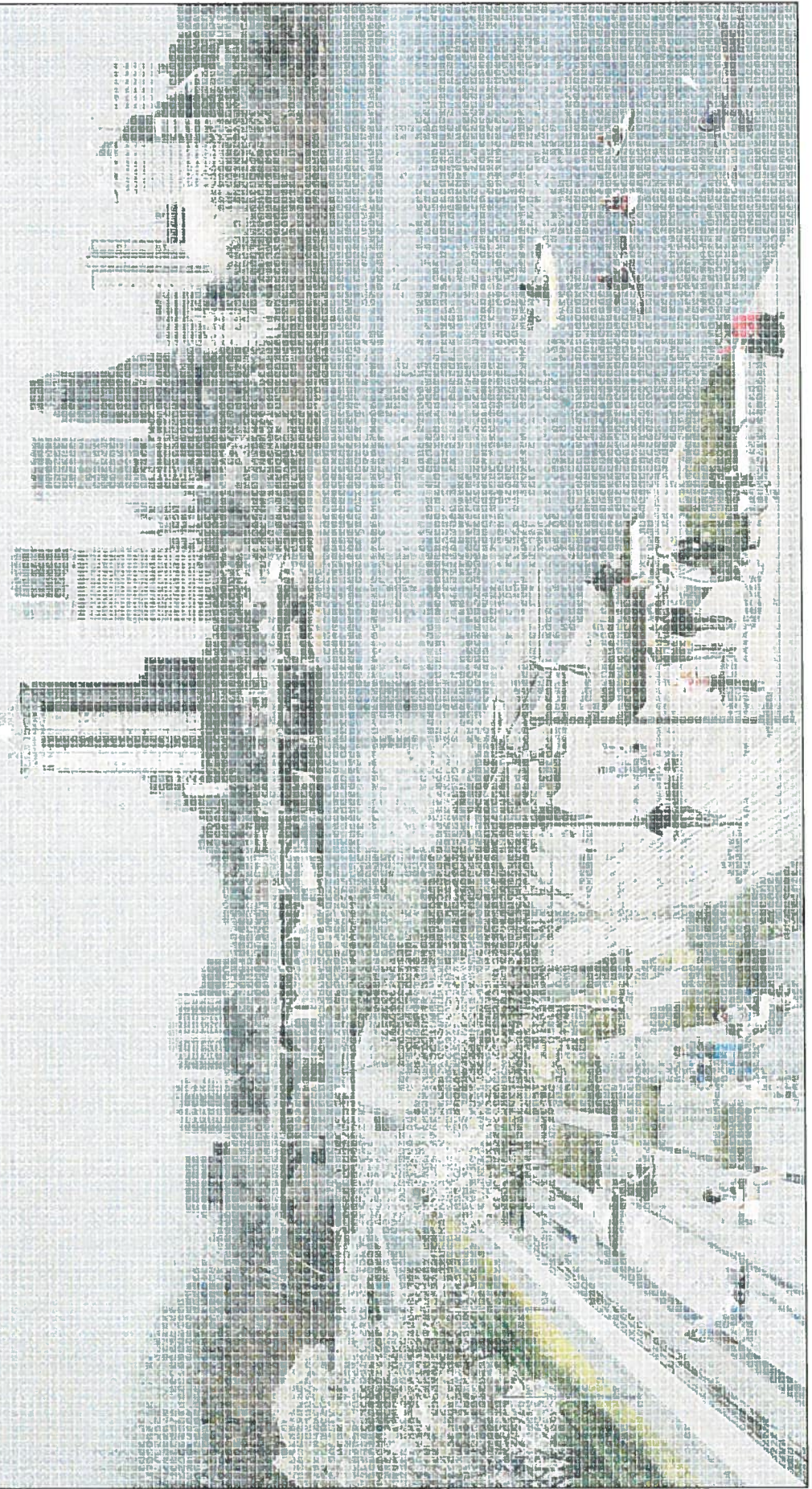
ARKANSAS RIVER NATURE AREA
SEPTEMBER 9, 2009

CH2MHILL     

Public Breakout Project Exhibits



Questions and Answers



Recap / Adjourn

