

CEMVS-DE

APR 08 2014


MEMORANDUM FOR CEMVP-PD

SUBJECT: Supplement No. 5, Carlyle Lake Master Plan, Kaskaskia River, Illinois.

Supplement No. 5 to the Carlyle Lake Master Plan, March 2014:

Approved 

Disapproved _____


CHRISTOPHER G. HALL
COL, EN
Commanding

CEMV-PD

MEMORANDUM THRU

CEMVS-OD *plw* 3-27-14
CEMVS-OD *LB* 4-1-14
CEMVS-OD *sch* 4/1/14
CEMVS-OD *LB* 4/1/14
CEMVS-RE *DK* 4/2/14
CEMVS-OC *KB* 4/3/14
CEMVS-EC *RB* 4/3/14
CEMVS-DP *M* 4/7/14
CEMVS-DX *88*
CEMVS-DD *At*

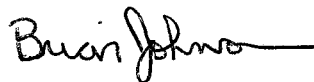
MAR 27 2014

FOR Commander, St. Louis District

SUBJECT: Supplement No. 5, Carlyle Lake Master Plan, Design Memorandum 10, Kaskaskia River, Illinois

1. The attached Carlyle Lake Project Master Plan supplement is submitted for review and approval (Enclosure 1).
2. This supplement requests approval for the designation of a lease area in the Dam East Recreation Area for the purpose of developing a commercial concession site and support facilities. The commercial concession will meet rising customer demands and will produce USACE revenues, higher visitation, and higher customer satisfaction.
3. The technical review has been completed and the checklist and certification are attached (Enclosure 2).
4. In accordance with ER 1130-2-550, paragraph 3-2 h., approval of this supplement by the District Commander is requested. Please return the attached approval memorandum after signing (Enclosure 3).
5. P.O.C. for this effort is Francis Walton, x8102.

Encls



BRIAN JOHNSON
Chief, Environmental Branch


CEMVP-PD-C

Date: 26 March 2014

MEMORANDUM FOR RECORD - TECHNICAL REVIEW COMPLETE

SUBJECT: Quality Control Review, Carlyle Lake Master Plan Supplement 5.

In accordance with the District's Quality Control Management Plan, the Quality Control Review for the Carlyle Lake Master Plan Supplement 5 has been completed and all comments are resolved. I certify the completion of this review.



3-26-14

Jon Summers,
Assistant Operations Manager Lake Shelbyville
Technical Reviewer

Technical Checklist

Project: Carlyle Lake Master Plan Supplement 5

Date 3-25-14

Item	Yes	No	N/A	Comments
GENERAL				
1. AUTHORITY:				
a. Does the activity/project conform with authorized project purposes?	X			
2. SCOPE:				
a. Have all significant resources been adequately considered?	X			
b. Have all foreseeable short-term and long-term needs been adequately considered?	X			
c. Have implications outside the activity/project area been properly addressed?	X			
3. OBJECTIVE OF MASTER PLAN:				
a. Are master plan objectives clearly stated?	X			
4. COORDINATION:				
a. Was there adequate coordination with appropriate State, local, and Federal agencies, and were their views considered in formulating the recommended plan?	X			
b. Has coordination conformed with law, executive orders, and agreements between agencies; and, if not, has the departure been satisfactorily explained?	X			
c. Have the proper preservation, conservation, historical, and scientific interests been consulted, and were their views given adequate consideration during plan development?	X			
5. PUBLIC INVOLVEMENT:				
a. Was the scoping process in accordance with EP 1130-2-550, Sect. 3-4 d.?	X			
b. Was adequate public involvement conducted during the planning process to fully inform interested parties and to ascertain their views?	X			

Technical Checklist

Project: Carlyle Lake Master Plan Supplement 5

Date 3-25-14

Item	Yes	No	N/A	Comments
c. Have implications associated with the recommended plan been properly addressed?	X			
d. Has there been adequate response to public concerns?	X			
e. Has the public involvement process been documented, and a discussion of the process prepared?	X			
6. POLICY ASPECTS:				
a. Does the proposed project conform to policies established in ER 1165-2-400 (Water Resource Policies and Authorities)	X			
8. LEGAL/INSTITUTIONAL:				
a. Have the legal and institutional obstacles to project implementation been considered and has a plan been developed to overcome them?	X			
9. REPORT REVIEW:				
a. Does the report format follow the most recent guidance?	X			
b. Have all major technical review issues and resolutions been documented?	X			
c. Is the technical review certification signature page included?	X			
10. FINANCIAL ANALYSIS				
a. If applicable, does the report state the benefit-cost ratio (BCR) for the recommended plan assuming existing conditions prevail over the period of analysis?			X	
b. Has the economic evaluation of recreational development been adequately determined?	X			
11. RECREATION/AESTHETIC				
a. Have the necessary recreational coordination been conducted in accordance with the NFCA of 1944, FFWA of 1965, and the WRDA of 1986, the Land and Water Conservation Fund Act, and appropriate	X			

Technical Checklist

Project: Carlyle Lake Master Plan Supplement 5

Date 3-25-14

Item	Yes	No	N/A	Comments
Corps regulations?				
b. Has the assessment of adverse effects dealing with recreation and aesthetic conditions been considered in each alternative plan?	X			
c. Has coordination with the State Department of Culture, Recreation, and Tourism been conducted, and the State Comprehensive Outdoor Recreation Plan been consulted concerning proposed recreational development.	X			
d. Has appropriate NED unit day values been assessed via Economic Guidance Memorandum, Unit Day Values for recreation? Are current fiscal year rates being used?			X	

Jon Summers 3-26-14

CEMVP-PD-C

MEMORANDUM FOR FILE

SUBJECT: Supplement No.5, Carlyle Lake Master Plan, Design Memorandum 10, Kaskaskia River, Illinois

1. References:

- a. Carlyle Lake Master Plan, Design Memorandum No. 10, approved 1997 (includes Supplements 1 - 4)
- b. ER 1130-2-550, Project Master Plans and Operational Management Plans, 30 January 2013. Chapter 3 addresses master planning requirements and Chapter 16 addresses outgranted lands.
- c. EM 1110-1-400, Engineering and Design, Recreation Planning and Design Criteria, Nov 2004. This EM addresses the standards for recreation facilities. All recreation facilities proposed in this supplement will meet the standards described in EM 1110-1-400.
- d. ER 1110-2-400, Design of Recreation Sites, Areas and Facilities, May 1988. This ER includes general concepts on recreation planning.
- e. EM 1110-2-410, Design of Recreation Areas and Facilities, Access and Circulation, Dec 1982. This EM addresses road and trail planning.
- f. ER 1130-2-500, Partners and Support, Dec 1996. This ER addresses funding considerations.
- g. EP 310-1-6a, EP 310-1-6b, Sign Standards Manual, Vols. 1&2.
- h. Carlyle Lake Operational Management Plan, updated 1998, revised 2006.
- i. American's with Disabilities Act (ADA) standards and guidelines for accessible design, 1991.
- j. Architectural Barriers Act (ABA) standards and guidelines for accessible design, 1982.
- k. Architectural Barriers Act Accessibility Guidelines; Outdoor Developed Areas, November 25, 2013.
- l. Environmental Statement, Carlyle Lake, Illinois, 1974, U.S. Army Corps of Engineers.

2. Purpose of Supplement: The purpose of the supplement is to designate a concession lease area in the Dam East Recreation Area for the purpose of developing a commercial concession site and support facilities for water-based recreation.

3. Project Description: A concession lease area is being proposed in the Dam East Recreation Area - Boat Access Area, east of the main boat ramp parking area. Facilities in the recreation area include a 4-lane boat ramp, a 1-lane high water ramp and a picnic shelter. The elevation of the site is approximately 464 feet NGVD. This area is adjacent to a proposed resort site. This area was originally part of the main boat ramp parking lot. In 2009 the parking lot was reduced and this area was converted into a grassy area to reduce maintenance costs.

A market study (see Appendix A) focused on outdoor recreation revealed demand for more outdoor and water-related recreational opportunities such as biking and kayaking. With the

recent completion of a lake kayak trail that follows the shoreline of the Dam East Recreation Area, a kayak/canoe rental facility would provide a much needed service to the public in this area.

The concession minimum requirements would include a land-based rental facility for kayaks, canoes and bicycles. In addition, a docking area for these smaller vessels would be developed in the branch of the lake to the east of the proposed concession site. The distance between the branch and the concession lease area is approximately 600 feet. A simple trail is proposed as a connector between the two facilities. Water and electricity are located in the area. Wastewater will be managed by utilizing a holding tank. The lessee will be responsible for minor, general maintenance of the area, reducing the future O&M costs of the Dam East Recreation Area.

Appendix C shows a map of the concession lease area. As shown on the plate, the designated concession area is approximately 200 by 350 feet.

4. Environmental Compliance: This proposed action has been categorically excluded from NEPA documentation. The recreation area was covered in the project's 1976 Environmental Impact Statement. However, a USACE environmental review has indicated that a Section 404 permit, a cultural resources review and an HTRW review will be required before construction can proceed. USACE will comply with all pertinent environmental laws and regulations.
5. Cost Estimate: Only administrative costs necessary to supervise and administer the lease concession will be required of USACE. All other costs will be the responsibility of the lease concessionaire.
6. Conclusion: The proposed concession lease will address the identified recreation needs at the Carlyle Lake Project and is necessary to meet visitor demand and produce USACE revenues. The proposed actions are in accordance with the Corps regulations and policies and support the Carlyle Lake Master Plan resource objectives related to concession development and day-use recreation opportunities.

APPENDIX A

MARKET STUDY

Outdoor recreation has become one of the most popular and profitable activities in the United States. Every year, more than 140 million Americans participate in some type of outdoor recreational activity. This equates to over \$646 billion in spending and over 6.1 million jobs created (The Outdoor Recreation Economy). With 26,000 acres of water and 11,000 acres of land the Carlyle Lake Project is capitalizing on the growth of outdoor recreation. However, more recreational opportunities exist and could be available to visitors. Kayak rentals, tours, stand-up paddling, and other water sports could be offered at Carlyle Lake and would contribute a substantial amount to the local economy. On average, water sports such as kayaking and stand-up paddling, help to support over 800,000 jobs, and collect over \$4.8 billion in state and local taxes (The Outdoor Recreation Economy). In addition, adding more recreational opportunities will help support the President's Challenge which helps people of all ages to increase their physical activity.

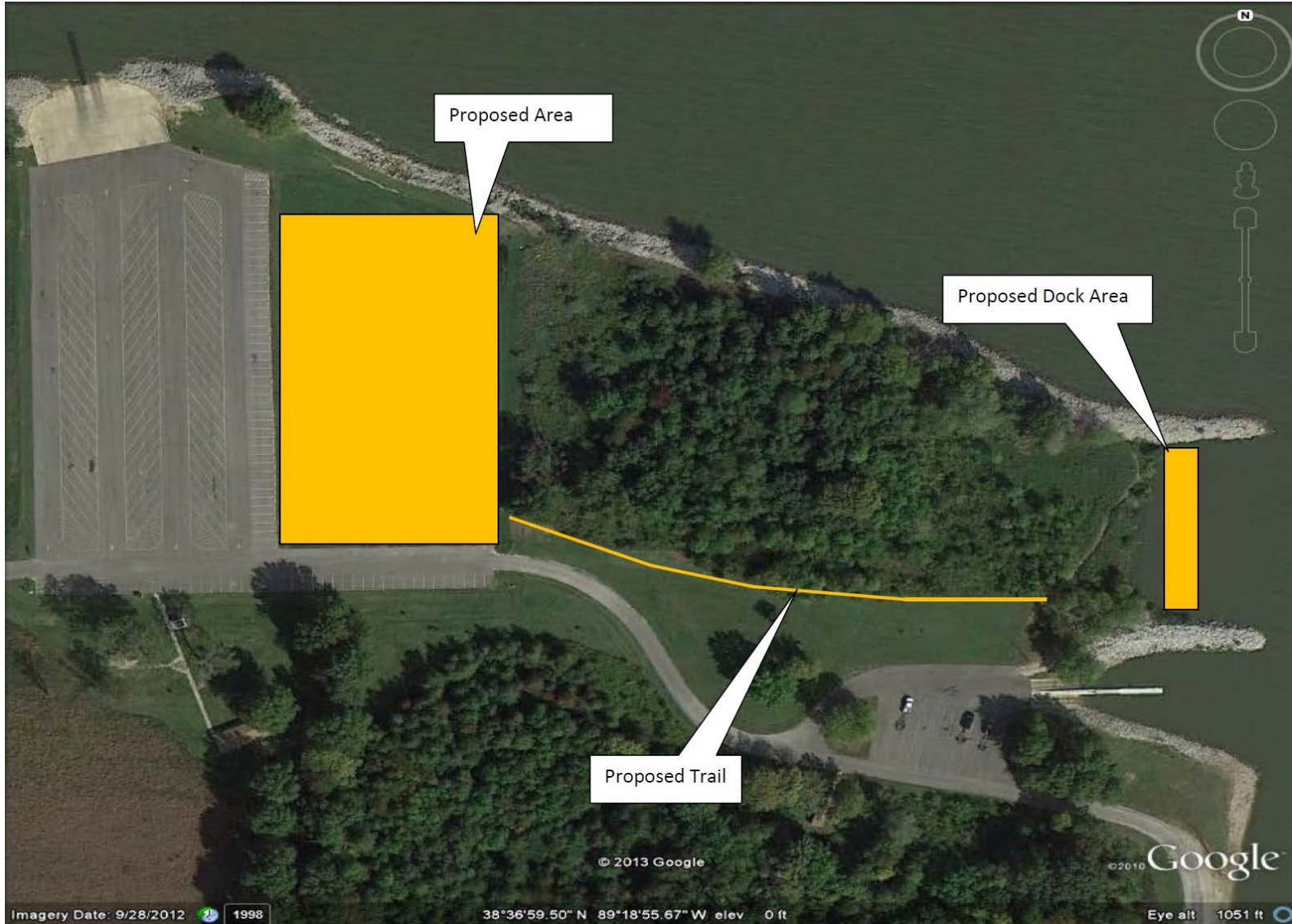
The area surrounding Carlyle Lake provides visitors a number of different recreational opportunities, but there is an opportunity to better serve our customers and increase customer access to outdoor activities. Currently, there are six developed campgrounds (400 campsites), four marinas, seven nature trails, four beaches, 16 boat ramps, four wildlife viewing areas, one 17 mile loop multi-use trail, and nine picnic areas. In addition, in 2013, Carlyle Lake hosted nine races including 2k's, 5k's, a half marathon and two triathlons. The facilities and area surrounding Carlyle Lake provide visitors a unique outdoor experience, but they are not meeting all of the demands of visitors. According to the Illinois Statewide Comprehensive Outdoor Recreation Plan over 85% of Illinois residents felt more trails/greenways should be developed and 78% felt there should be more public access to lakes, rivers, and streams. Over 63% of Illinois residents identified bicycling/trails as very important to them, 58.5% acknowledged fishing as very important, and 46% felt canoeing opportunities were very important. While Carlyle Lake does offer biking and kayaking opportunities, for many visitors more opportunities are needed. Visitors are showing an increased interest in kayaking, but many do not own or have access to equipment needed to kayak. Biking has always been a popular activity and Carlyle Lake is home to a premiere 17 mile paved trail, however there are no bike rental opportunities available in the surrounding area. The opportunities for these recreational activities are available at Carlyle Lake, but many visitors require the equipment needed to enjoy these recreational activities.

There is a new generation of outdoor enthusiasts and many of them are looking for different outdoor recreational opportunities. While hiking and biking are still popular recreational activities, many visitors are looking for different interactive activities such as kayaking or stand-up paddle boarding. The Carlyle Lake Project already attracts approximately 3 million visitors annually and more and more of these visitors are coming from other communities and states. By expanding the recreational facilities available at Carlyle Lake, it is

likely that visitation will increase. In 2012, recreational kayaking grew by 27% and it has increased 32% in the past three years (The Outdoor Recreation Economy). As kayaking becomes an increasingly popular activity, it is also becoming obvious that there is a lack of water trails and areas for kayaking and other popular water sports. Adding to its popularity is the fact that all genders, races, and ages can participate in and enjoying kayaking. If kayak and bike rentals were available it would be a very low cost activity for individuals or families. Carlyle Lake has the natural resources, the visitor demand, and the capability to provide visitors more recreational opportunities.

REFERENCES

- State of Illinois. Illinois Department of Natural Resources. *Illinois Statewide Comprehensive Outdoor Recreation Plan*. Springfield: 2009
- "The Outdoor Recreation Economy." *Outdoor Industry Association*. (2012): 1-20.



APPENDIX B – Dam East Lease Concession Area