Appendix H

Recreation Survey Training Package





Recreation Survey Team Training

March 30, 2012

Eufaula Lake - Oklahoma

U.S. Army Corps of Engineers

Environmental Impact Statement

Introductions

- U.S. Army Corps of Engineers
 - Steve Johnson Lead Park Ranger Eufaula Lake
- CDM Smith (Primary Contractor)
 - · Michael Belvin Socioeconomics/Recreation Team Leader
 - Recreation Survey Team Leaders
 - Larry Schwartz (Team 1 & 2)
 - Rodger Menendez (Team 3)
 - Michael Belvin (Team 4)
 - Jennifer Pearson
 - Shannon Adams
 - Brendan Brown
- Lemke Land Surveying (Sub-contractor)
- Recreation Specialist (Sub-Contractor)
 - Brad Keshlear



EUFAULA LAKE

- Located in East-Central Oklahoma
- Managed by U.S. Army Corps of Engineers
- Largest Lake Located Entirely in Oklahoma (5 Counties)
- Watershed = 47,522 Square Miles
- 105,500 Water Surface Acres
- 54,231 Acres of Recreation & Wildlife Management Land
- 600 Miles of Shoreline
- Over 2 Million Visits Annually
- 25 Recreation Areas
- 925 Campsites
- 1,100 Marina Slips



RECREATION STUDY

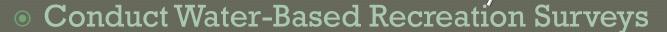
Part of Environmental Impact Statement (EIS)

- U.S. Army Corps of Engineers (USACE)
 - Shoreline Management Plan (SMP) Update (1998)
 - Supplement to Project Master Plan (1977)
- Recreation Study Four Major Components
 - Land-Based Recreation
 - Land/Water Interface Recreation
 - Water-Based Recreation
 - Dispersed Use Recreation



Recreation Study Detail

- Collect Existing Land-Based Recreation Data
- Conduct Land/Water Interface Recreation Surveys
 - Swim Beaches *
 - Boat Ramps *
 - Marinas *



- Boat Density & Carrying Capacity *
- Conduct Dispersed Use Recreation Surveys
 - Private/Community Boat Docks
 - Mail-in Survey (Lake Area Residents)

Focus of This Study Initiative

- Collect Visitor Use Data/Conduct Surveys
 - Swim Beaches *
 - Boat Ramps *
 - Marinas *











Survey Components

- Swim Beach Surveys: Quantify Existing Use at Swim Beaches to Help Establish Carrying Capacity
- Boat Ramp Parking Lot Surveys: Quantify Existing Use at Boat Ramps to Help Establish Carrying Capacity and Identify Boat Origination Locations
- Marina Surveys: Quantify Existing Use at Marinas to Help Establish Carrying Capacity and Identify Boat Origination Locations
- Boat Density Surveys: Quantify Boat Density by Type of Vessel, Recreation Activity & Lake Area to Help Establish Carrying Capacity

Importance of Survey Data

- Recreation Study-Primary Component of EIS
 - Typical Studies of this Magnitude = 24 Months (Two Recreation Seasons)
 - Schedule for this Study = 5 Months



(Less Than One Recreation Season)

Accuracy of Survey Data is Critical !!!

(One Shot to Get it Right)

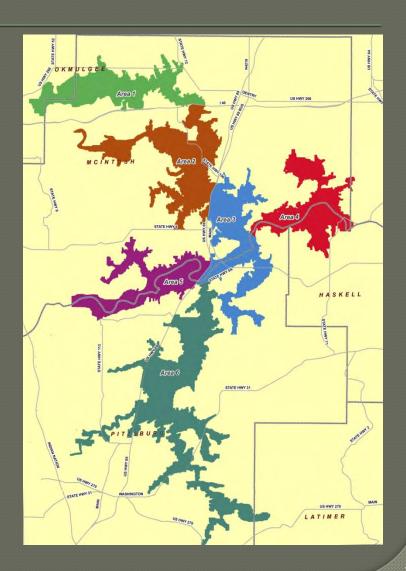
When Will Surveys Be Conducted?

- Primary Survey Dates
 - 7-8 April
 - 26-27 May
 - 16-17 June
 - 30 June & 1 July
- 2 Surveys Each Day
 - 1 Morning
 - 1 Afternoon
- 4 Surveys Each Weekend
- 16 Total Surveys

- Alternate Survey Dates
 - 14-15 April
 - 2-3 June
 - · 23-24 June
 - 7-8 July
- 2 Surveys Each Day
 - 1 Morning
 - 1 Afternoon
- 4 Surveys Each Weekend
- 16 Total Surveys

Where & How Will Surveys Be Conducted?

- 6 Lake Areas
- 25 Recreation Areas
- 10 Teams
 - 4 CDM Team Leaders
 - 13 Lemke Staff Members
 - 9 Vehicles
 - l Helicopter
- Simultaneous Surveys



Survey Teams & Recreation Facility Counts

Survey Team's and Recreation Facility Count

Team Number	CDM Team Leader	Lemke Staff #	Lake Area	Recreation Area Name	# of Beaches	# of Boat Ramps	# of Launch Lanes	# of Car Spaces	# of Car/Trailer Spaces	# of Wet Slips
			1	Gentry Creek	0	1	2	0	23	
1	1	1	. 2	Eufaula State Park (Marina)	1	2	2	300	130	8
			2	Holiday Cove	0	1	1	28	36	
Team 1 Totals	- 3			3 Recreation Areas	1	4	5	328	209	8
		The state of	3	Belle Starr CG	0	- 1	2	339	100	
2A		1	3	Belle Starr Marina	0	1	1	60	35	13
			3	Eufaula City Park	1	4	4	113	130	40
28	1	2	3	Eufaula Cove (Eufaula Marina)	0	1	1	40	10	
120	100		- 5	Mill Creek	0	1	1	7	10	
			3	Hwy 9 Landing CG	1	3	3	112	72	
2C		1	3	Hwy 9 Landing Marine	Ô	0	0	63	32	23
Team 2 Totals			7 Recreation Areas					429		
A			-							
3A 1			Brooken Cove CG	0	1	1	80	20		
		2	4	Coles Evergreen Marina	0	0	0	30	10	9
		4	Dam Site CG	0	2	3	138	83		
	1.	4	Duchess Creek Marina	0	0	D	40	10	14	
30			-	Porum Laning CG	1	2	3	49	31	
Team 3 Totals				5 Recreation Areas	1	5	7	337	154	23
			6	Arrowhead State Park (Area 31 Marina)	1	1	2	158	46	1
-4A		1	6	Oak Ridge	0	1	1	0	28	
- 102		100	- 6	Gaines Creek	0	1	1	0	17	
			- 6	Crowder City Park	0	-	2	3	27	-
			6	Cardinal Point	0	1	1	10	0	-
48	1	4	6	Crowder Point	0	3	4	83	22	
			6	Juniper Point	0	2	2	28	69	
			- 6	Elm Point	0	1	1	- 5	20	_
40		1	6	Hickory Point	0	1	1	,	20	
44.		-	6	Hwy 31 Landing	0	1	1	20	35	
Team 4 Totals				10 Recreation Areas	1	13	16	312	304	,
elicopter		2		Helicoptor Team						
ub-Total		13								
irand otal	1	7	25 Recreation Areas			.33	40	1,713	1,096	1,09

- l CDM Team Leader
- l Lemke Staff
- l Vehicle



Lake Area #1 and #2

- 3 Recreation Areas
 - · 1 Swim Beach
 - 4 Boat Ramps
 - 5 Boat Launch Lanes
 - 328 Car Spaces
 - 209 Car/Trailer Spaces
 - 82 Marina Boat Slips

- 3 Groups (2A-2B-2C)
- l CDM Team Leader
- 4 Lemke Staff
- 3 Vehicles



Lake Area #3 and #5

- 7 Recreation Areas
 - · 2 Swim Beaches
 - 11 Boat Ramps
 - 12 Boat Launch Lanes
 - 736 Car Spaces
 - 429 Car/Trailer Spaces
 - 762 Marina Boat Slips

- 2 Groups (3A-3B)
- l CDM Team Leader
- 3 Lemke Staff
- 2 Vehicles



Lake Area #4

- 5 Recreation Areas
 - · 1 Swim Beach
 - 5 Boat Ramps
 - 7 Boat Launch Lanes
 - 337 Car Spaces
 - 154 Car/Trailer Spaces
 - 235 Marina Boat Slips

- 3 Groups (4A-4B-4C)
- l CDM Team Leader
- 3 Lemke Staff
- 3 Vehicles



Lake Area #6

- 10 Recreation Areas
 - · 1 Swim Beach
 - 13 Boat Ramps
 - 16 Boat Launch Lanes
 - 312 Car Spaces
 - 304 Car/Trailer Spaces
 - 18 Marina Boat Slips

Helicopter Team

- l Pilot
- 2 Lemke Staff
 - (1 counting, 1 Photographer)
- l Helicopter



2 Motion Sickness Bags

6 Lake Areas

- Vessel Type/Activity
 - Power Boat/Activity
 - Pleasure Boating/Cruising
 - Fishing
 - Water Skiing/Tubing
 - Personal Water Craft/Jet Ski
 - Non-Powered Boat/Activity
 - Kayak/Canoe/Row Boat
 - Sail Boat

Power Boat/Activities

- Cruising/Pleasure
- Fishing
- Water Skiing/Tubing
- PWC's/Jet Ski
- Non-Powered Boat
 - Kayak/Canoe/Row
 - Sail Boat
- Digital Photograph
 - Large number of Boats
 - Rafted Together
 - Partying
- Identify Location on Map
- Do NOT Count
 - Boats at Docks
 - Boats on Shoreline

AERIAL BOAT COUNT SURVEY FORM

Date:	Day of Week:	Time:	Lake Area number:
Weather Cond	itions:		
Survey Team N	lumber: Survey Team Memb	er Names:	
that occur on t survey team w the morning ar from the shore be documented Boats that are boats tethered one location, a map.	his form is used to document the num he lake during periods of heavy use for ill fly over (via helicopter) each of the d once in the afternoon. During each line or any docking apparatus, whose d for each lake area. This will be acco tethered together for partying will be d to the shoreline or moored at docks digital photograph will be taken and	or each Lake Area (1-6) six lake areas two tim h fly-over the number occupants are pursui mplished using hand-l counted. Boats not to when a large numb the location of the pho	Description of the control of the
			onowing categories.
Power Boats &		Number of Boats	
	Cruising - Pleasure Boating		
2. Power Boat	Water Skiing - Tubing		
	eter Craft (PWC's & Jet Ski's)		
	ici didit (i We s disetoni s)		
Non-Powered	Boats & Activities	Number of Boats	
Kayak/Canor	e/Row Boat		
6. Sail Boat			
Photograph #	Description		Identify Location on Map
Please use oth	er side for Notes/Comments		
Eufaula Lake –	Environmental Impact Statement – Ro	ecreation Study	March 2012

What to Count/What Not to Count

Aerial Boat Count Surveys

- Do Count:
 - Boats Underway
 - Boats that are Stationary on the Water
 - Boats Tethered Together for Partying



• Do **Not** Count:

- Boats Moored at Boat Docks
- Boats Moored at Marinas
- Boats Tethered to Shoreline



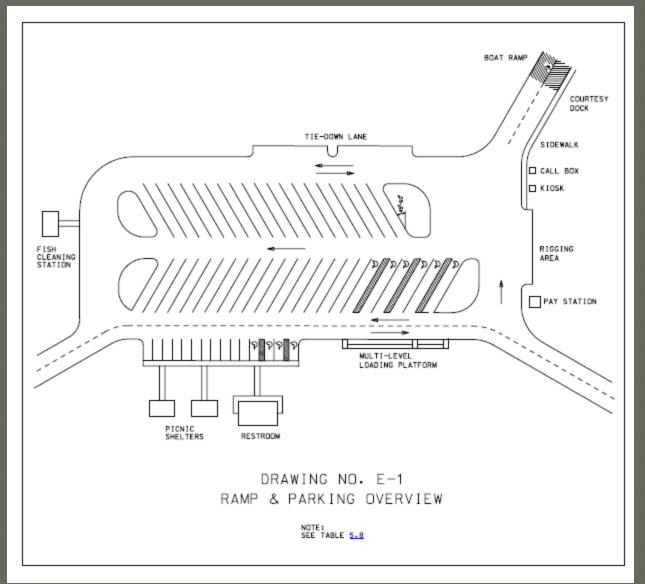
- Take Photo of Entrance Sign
- # of Car/Trailer Spaces
- # of Empty Car/Trailer Spaces
- # of Empty Boat Trailers
 - Boat Ramp Parking Lot
 - Camp Sites
- # of Car Spaces
- # of Empty Car Spaces
- Photograph
- Notes/Comments
 - Overcrowding
 - Cars Parked on Grass
 - Photo # & Description
- Notify Gate Attendant when entering Campgrounds

BOAT RAMP PARKING LOT SURVEY FORM

Date:	Day of Week:		Time:
Lake Area Number:	Recreation Area Nan	ne:	
Weather Conditions:			
Survey Team Number:	Survey Team Membe	er Names:	
Information: This form is used to within designated recreation area number of boats on the lake as w more than one boat ramp and ass within walking distance of a camp within the campground, must also station and advise the gate attendocated within the boat ramp par spaces, and enter the number for Photograph: Take a digital photograph.	is. By counting the number ell as the origination location sociated parking area. Whe orground, the number of emo be counted. When enter dant. Count the total number king area. Then count the in each. Then count the number	of empty boat trailers we on for that boat. Some recret the boat ramp is located pty boat trailers located at ing a campground, you muster of car/trailer spaces and umber of empty car/trailer sher of empty boat trailers.	are able to determine the eation areas may have within a campground, or is campsites or parking areas t stop at the entrance I total number of car spaces or spaces and empty car
Total number of car/trailer pa	rking spaces:	Total number of car pa	rking spaces:
Number of empty car/trailer	parking spaces:		
Number of empty boat trailer	s:	Number of empty Car	Spaces:
If this recreation area is a cam enter the number of empty be located at campsites or other parking areas, within the cam	oat trailers		
Notes/Comments:			
(Please document conditions of o	vercrowding such as parkir	g on the grass or undesign	ated areas)
Eufaula Lake – Environmental	Impact Statement – Recr	eation Study	March 2012

Boat
Ramp
And
Parking
Area
Diagram





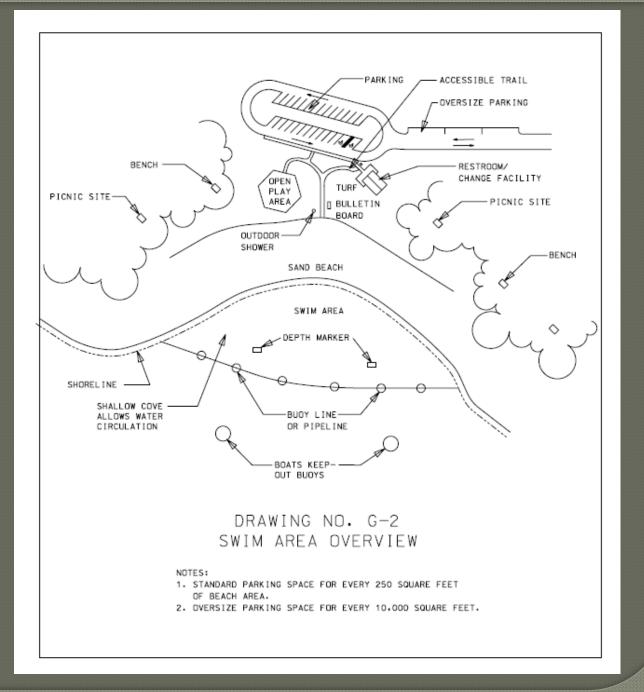
- Take Photo of Entrance Sign
- # of People in the water (buoyed swim area)
- # of People on the beach (sand area)
- # of People on Turf Areas
- # of Car Parking Spaces
- # of Empty Car ParkingSpaces
- Photograph
- Notes/Comments
 - Overcrowding
 - Parking on grass
 - Photo # & Description

SWIM BEACH SURVEY FORM

Date:	Day of Week:		Time:
Lake Area Number:	Recreation Area N	lame:	
Weather Conditions:			
Survey Team Number:	Survey Team Mer	nber Names:	
Information: This form is used to a located inside of a developed recrubeach. 1) Water Area: The area used for selection of the sand area imme and the sand area imme area imme and the sand area imme and the sand area imme area imme and the sand area imme area imme and the sand area imme area imme area imme and the sand area imme area imm	eation area. There are swimming and delineat sdiately adjacent to the nd areas immediately a ables, benches, outdoo e three areas. ity count form, enter t car parking spaces in t should be taken to do	three general design features ted with a buoy line. e delineated swimming area. adjacent to the sand area. This or showers, playgrounds, etc. the number of car parking space the recreation area. cument overall conditions at the	associated with a swimming area may include It is important to count the es for this recreation area. The swim beach. Parking Spaces:
Notes/Comments:			
(Please document conditions of	f overcrowding such	as, parking on grass or unde	esignated areas)
Fufaula Lake – Environmental li			March 2012

Swim Beach Diagram





- Inform Marina Operator
- # of Wet Slips
- # of Rented Wet Slips
- # of Wet Slips Available for Rent
- # of Empty Wet Slips
- # of Dry Dock Spaces
- # of Rented Dry Dock Spaces
- # of Dry Dock Spaces Available for Rent
- # of Empty Dry Dock Spaces
- # of Car/Trailer Spaces
- # of Empty Car/Trailer Spaces
- # of Empty Boat Trailers
- # of Car Spaces
- # of Empty Car Spaces
- Notes/Comments
 - Overcrowding
 - Parking Undesignated Areas
 - Photo # & Description

MARINA SURVEY FORM

Date:	Day of Week:	Time:
Lake Area Number:	Marina Name:	
Weather Conditions:		
Survey Team Number:	Survey Team Me	ember Names:
Name of Marina Staff Person	1 Contacted:	
extremely important that be the boat slip count. Also, yo currently rented at the facili a boat ramp operated by the ramp parking lot. Rememb facility that are actually on	efore each survey you notify the u will need to find out from the ity. This same information is no emarina, you must count the no er, the purpose of this surve	f rented, but empty boat slips at a marina. It is a marina operator that you are on-site to conduct marina operator the number of boat slips eded for dry-dock storage spaces. Also, if there is umber of empty boat trailers located at the boat y is to determine the number of boats from this for recreational purposes at this time. So, you ess.
	WET SLII	ne e
Total Number of Wet Cline a	t this Marina: (See Fac	
	itly Rented: (Ask Marin	
Number of Wet Slips Availal	ble for Rent: (Ask Marin	a Operator)
Number of Empty Wet Slips	: (This will equal the	number of boats from wet slips that are out on the lake)
	DRY DOCK BOAT STO	PRAGE SPACES
Total Number of Dry Dock S	torage Spaces at this Marina: _	(Ask Marina Operator)
Number of Dry Dock Storage	e Spaces Currently Rented:	(Ask Marina Operator)
	e Spaces Available for Rent:	
Number of Empty Dry Dock	Storage Spaces:(This wi	ill equal the number of boats from dry dock storage on the lake)
BOAT RAMP	- CAR/TRAILER SPACES, CAR	SPACES & EMPTY BOAT TRAILERS
Total Number of Car/Trailer S	•	Total Number of Car Spaces:
Number of Empty Car/Trailer		Number of Empty Car Spaces:
Number of Empty Boat Traile		The state of Empty car spaces.
Notes/Comments:		
(Please document conditio	ns of overcrowding such as pa	arking on the grass or undesignated areas)
Eufaula Lake – Environmen	ntal Impact Statement – Recre	ation Study March 2012

- While Traveling from one location to another
- Shoreline Outside of Developed Recreation Areas
- Identify Type of Recreation Activity
- Photograph
- Identify Location on Map
- Notes/Comments
 - Overcrowding
 - Parking Along Roads
 - Photo # & Description

SHORELINE ACTIVITY OBSERVATION FORM

Date:	Day of Week:	Time:
Lake Area Number:	Location Description:	
Weather Conditions:		
Survey Team Number:	_ Survey Team Member Names:_	
	_	
activities along the shorelin swimming/wading along the the shoreline, and wildlife/r As you are driving from one occurring along the shorelin	e, <u>outside</u> of designated recreation e shoreline, fishing from the shore nature viewing/photography from the location to another, if you notice	eline or pier, walking/hiking along the shoreline. significant recreational activity and designated recreation areas,
Photograph: Take a digital p map.	photograph to document the activ	vity and mark the location on a
Place an 'X' next to the	activity observed, take a photog	raph and mark location on map
Fishing from Shoreline: Swimming/Wading: Walking/Hiking: Wildlife/Nature Viewing/Ph Other Recreation (Please De		
Notes/Comments:		
Eufaula Lake – Environmental	Impact Statement – Recreation Stud	v March 2012

Safety – Safety - Safety

- Safety is Top Priority!
 - Safety Information Sheet & Hazard Analysis
 - Copy Will be Provided to Everyone
 - Read It Learn It Live by It
- Emergency Information Sheet

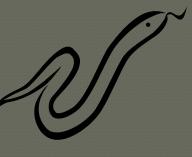


- Phone Number Contact Sheet
 - Everyone Must List Your Cell Phone Number

Activity Hazard Analysis











Activity Hazard Analysis Recreation Study Surveys

HAZARD	CONTROLS
Walking	Be alert of walking surface.
Prolonged Standing/Walking	Be in good physical condition. Take breaks as required.
Physical assault from irritated, distraught, or intoxicated individuals	Knowledge of non-threatening communications. Know how to get assistance. Knowledge of self-defense and avoidance procedures.
Ankle Injuries	Wear proper field boots with ankle height of at least 4 inches.
Slips/Trips/Falls	Wear proper field boots and be observant of terrain.
Walking on Boat Docks over water	Be alert of walking surface. Be aware of tripping hazards. If you don't know how to swim, wear a life jacket.
Falling on slippery or rugged terrain	Wear proper field boots and be observant of terrain.
Snake Bites	Wear proper field boots. Do not harass/kill snakes.
Animal Bites	Wear proper clothing. Do not approach animals. Use caution and composure when encountering animals.
Insect Bites & Stings	Knowledge and avoidance of such insects. Caution and knowledge of any allergies to such bites or stings. Do not wear perfume or cologne. Know where to obtain first aid.
Tick Bites	Wear proper clothing. Light colored long sleeved shirts tucked inside pants. Make frequent checks for the presence of ticks and use proper removal techniques if found.
Poisonous Plants	Knowledge and avoidance of such plants. Wash after contact.
Exposure to the Elements	Wear proper clothing. Be aware of exposure duration and limit duration if necessary. Be knowledgeable of the symptoms of exposure related illnesses.
Cuts & Bruises	Wear proper clothing. Use caution.
Motor Vehicle	Obey traffic laws. Adjust vehicle operation to road and weather
Operation/Accidents	conditions. Watch out for pedestrians. Reduce speed appropriately. Employ defensive driving techniques. Stay alert.
Air/Motion Sickness	Focus on the horizon. Minimize reading. Limit viewing through binoculars and cameras. Breathe fresh air. Take over the counter medication to help minimize motion sickness.

Eufaula Lake EIS - Recreation Study



Maps



- Each Team & Team
 Member will be provided
 Maps
 - Lake Map
 - Team Area Map
 - Recreation Area Maps

Team Member Cell Phone Numbers



Date:	Cell Phone Contacts
-------	---------------------

Team	Team Leader Name and		Cell Phone
Number	Number	Team Member Name	Number
1			
1			
2			
2A			
2B			
2B			
2C			
3			
3A			
3A			
3B			
4			
4A			
4B			
4C			
Helicopter			
Helicopter			
All	Michael Belvin	Michael Belvin	210-439-9486
All	Brad Keshlear	Brad Keshlear	404-309-4598

Eufaula Lake - Recreation Study

Materials – Supplies - Equipment

What You Need to Bring:

- Vehicle
- Clip Board
- Pen/Pencil
- Insect Repellant
- Sun Block
- Cell Phone
- Digital Camera
- Digital SLR Camera (Helicopter Team)

• What Will Be Provided:

- Survey Forms
- Maps
- Emergency Contact #'s
- Binoculars (Helicopter Team)
- Letter of Authorization

Start/End of Day Meeting Locations

- Survey Team #1: Lake Eufaula State Park (Visitor Center)
- Survey Team #2: Lake Eufaula Association Office (701 S. Main, Eufaula, OK)
- Survey Team #3: USACE Project Management Office (Hwy 71 – south of dam)
- Survey Team #4: Crowder City Park

QUESTIONS?



Survey Team's and Recreation Facility Count

Team Number	CDM Team Leader	Lemke Staff#	Lake Area #	Recreation Area Name	# of Beaches	# of Boat Ramps	# of Launch Lanes	# of Car Spaces	# of Car/Trailer Spaces	# of Wet Slips
			1	Gentry Creek	0	1	2	0	23	(
1	1	1	2	Eufaula State Park (Marina)	1	2	2	300	150	83
			2	Holiday Cove	0	1	1	28	36	(
Team 1 Totals	2			3 Recreation Areas	1	4	5	328	209	8:
			3	Belle Starr CG	0	1	2	339	100	(
2A		1	3	Belle Starr Marina	0	1	2	60	35	13
-			3	Eufaula City Park	1	4	4	115	150	40
2B	1	2	3	Eufaula Cove (Eufaula Marina)	0	1	1	40		40
20	1	-	5	Mill Creek	0	1	1	7	10	
2C		1	3	Hwy 9 Landing CG	1	3	3	112	72	
Team 2			3	Hwy 9 Landing Marina 7 Recreation Areas	0	0	0	63	52	233
Totals				/ Recreation Areas		11	12	736	429	762
			4	Brooken Cove CG	0	1	1	80	20	
3A 1	2	4	Coles Evergreen Marina	0	0	0	30	10	9	
		4	Dam Site CG	0	2	3	138	83		
3B		1	4	Duchess Creek Marina	0	0	0	40	10	140
			4	Porum Laning CG	1	2	3	49	31	
Team 3 Totals	4			5 Recreation Areas	1	5	7	337	154	235
				In the last of the second				450	4.0	
			6	Arrowhead State Park (Area 51 Marina	1	1	2	158	46	18
4A		1	6	Oak Ridge Gaines Creek	0	1	1	0	28 17	(
						1	1			
			6	Crowder City Park	0	1	2	3	27	(
4B	1	1	6	Cardinal Point	0	1	1	10	0	(
			6	Crowder Point	0	3	4	83	22	
			6	Juniper Point	0	2	2	28	69	
			6	Elm Point	0	1	1	5	20	
4C		1	6	Hickory Point	0	1	1	5	20	(
			6	Hwy 31 Landing	0	1	1	20	55	(
Team 4 Totals	4			10 Recreation Areas	1	13	16	312	304	18
Inline to				Holisanton Trans						
Helicopter		2	-	Helicoptor Team				20.00		
Sub-Total	4	13								
Grand Total	1	7		25 Recreation Areas	5	33	40	1,713	1,096	1,097



DEPARTMENT OF THE ARMY EUFAULA LAKE OFFICE, CORPS OF ENGINEERS 102 E. BK 200 Road

STIGLER, OK 74462-1693 (918) 484-5135 or (918) 799-5843

R.S. KERR LAKE OFFICE

WISTER LAKE OFFICE

March 20, 2012

Eufaula Lake Office

SUBJECT: Authorization to Conduct Recreation Surveys on Eufaula Lake

Brad Keshlear Project Contractor, CDM Smith 4835 East Cactus Road, Suite 360 Phoenix, Arizona 85254

Dear Mr. Keshlear:

This letter serves as official authorization for employees of CDM Smith and Lemke Land Surveying companies to enter Corps owned or managed lands located at Eufaula Lake to perform recreation surveys. These surveys are conducted as part of a recreation study and Environmental Impact Statement for Eufaula Lake. The purpose of these surveys is to document and obtain information about the amount and type of recreational use occurring at Eufaula Lake.

These surveys may be conducted at all major recreation areas, including marinas, state parks, county parks, city parks and parks managed by the U.S. Army Corps of Engineers located on Eufaula Lake. The surveys may take place on heavy use weekends from April through July 2012.

Facility managers and leaseholders of Corps-owned land should allow reasonable access to your employees to conduct your surveys. You are encouraged to coordinate with each facility prior to arriving to conduct surveys.

Should you or any leaseholder have any questions, you may contact Steve Johnson, Lead Ranger, at 918-799-5843.

Sincerely,

eff Knack

Operations Project Manager

Helicopter Fly-Over Sequence By Lake Area Number

				ic Ai ca iv				
			Fly-Over Sequence					
Day	Date	AM/PM	Lake Area #					
Caturday	7-Apr	AM	1	2	3	4	5	6
Saturday	7-Apr	PM	6	5	4	3	2	1
Cunday	8-Apr	AM	6	5	4	3	2	1
Sunday	8-Apr	PM	1	2	3	4	5	6
Caturday	26-May	AM	6	5	4	3	2	1
Saturday	26-May	PM	1	2	3	4	5	6
Complex	27-May	AM	1	2	3	4	5	6
Sunday	27-May	PM	6	5	4	3	2	1
	193							
Catuaday	16-Jun	AM	1	2	3	4	5	6
Saturday	16-Jun	PM	6	5	4	3	2	1
Cundan	17-Jun	AM	6	5	4	3	2	1
Sunday	17-Jun	PM	1	2	3	4	5	6

Cotumdo	30-Jun	AM	6	5	4	3	2	1
Saturday	30-Jun	PM	1	2	3	4	5	6
Conde	1-Jul	AM	1	2	3	4	5	6
Sunday	1-Jul	PM	6	5	4	3	2	1

AERIAL BOAT COUNT SURVEY FORM

Date:	Day of Week:	Time:	Lake Area number:
Weather Cond	itions:		
Survey Team N	lumber: Survey Team M	ember Names:	
that occur on t survey team w the morning ar from the shore be documented Boats that are boats tethered one location, a map.	his form is used to document the he lake during periods of heavy u ill fly over (via helicopter) each of nd once in the afternoon. During line or any docking apparatus, who for each lake area. This will be attethered together for partying will to the shoreline or moored at digital photograph will be taken a	se for each Lake Area (2) the six lake areas two to each fly-over the numbers occupants are pursuaccomplished using har II be counted. Boats nooks. When a large number of the	I6). To accomplish this, the times each survey day; once in per of boats that are un-tethered suing recreational activities, will ad-held electronic counters. In the count are mber of boats are congregated in photo will be identified on a
Power Boats &	Activities	Number of Boats	
1. Power Boat/	Cruising - Pleasure Boating		
2. Power Boat/	Fishing		
3. Power Boat/	Water Skiing - Tubing		
4. Personal Wa	iter Craft (PWC's & Jet Ski's)		
Non-Powered	Boats & Activities	Number of Boats	
5. Kayak/Canoe	e/Row Boat		
6. Sail Boat	2010		
Photograph #	Description		Identify Location on Map
Disease was able	or side for Notes/Comments		

Eufaula Lake – Environmental Impact Statement – Recreation Study

MARINA SURVEY FORM

Information: This form is used to do extremely important that before each the boat slip count. Also, you will ne currently rented at the facility. This a boat ramp operated by the marinal ramp parking lot. Remember, the pracility that are actually out on the must physically count the number of	Marina Name:
Name of Marina Staff Person Contact Information: This form is used to de extremely important that before each the boat slip count. Also, you will ne currently rented at the facility. This a boat ramp operated by the marina, ramp parking lot. Remember, the pfacility that are actually out on the must physically count the number of Total Number of Wet Slips at this Manumber of Wet Slips Currently Rented.	
Information: This form is used to do extremely important that before each the boat slip count. Also, you will ne currently rented at the facility. This a boat ramp operated by the marina, ramp parking lot. Remember, the pfacility that are actually out on the must physically count the number of Total Number of Wet Slips at this Manumber of Wet Slips Currently Rented.	
Information: This form is used to do extremely important that before each the boat slip count. Also, you will ne currently rented at the facility. This a boat ramp operated by the marina, ramp parking lot. Remember, the pracility that are actually out on the must physically count the number of Total Number of Wet Slips at this Manumber of Wet Slips Currently Rented.	Survey Team Member Names:
extremely important that before each the boat slip count. Also, you will ne currently rented at the facility. This a boat ramp operated by the marina, ramp parking lot. Remember, the pracility that are actually out on the must physically count the number of Total Number of Wet Slips at this Manumber of Wet Slips Currently Rented.	ted:
Number of Wet Slips Currently Rente	cocument the number of rented, but empty boat slips at a marina. It is the survey you notify the marina operator that you are on-site to conduct sed to find out from the marina operator the number of boat slips same information is needed for dry-dock storage spaces. Also, if there is you must count the number of empty boat trailers located at the boat purpose of this survey is to determine the number of boats from this is lake and being used for recreational purposes at this time. So, you fempty slips and spaces.
Number of Empty Wet Slips:	
	DRY DOCK BOAT STORAGE SPACES (Acl: Marine Or eveter)
	paces at this Marina: (Ask Marina Operator) Currently Rented: (Ask Marina Operator)
	Available for Rent: (Ask Marina Operator)
Number of Empty Dry Dock Storage	Spaces: (This will equal the number of boats from dry dock storage on the lake)
	RAILER SPACES, CAR SPACES & EMPTY BOAT TRAILERS
Total Number of Car/Trailer Spaces:	
Number of Empty Car/Trailer Spaces: _ Number of Empty Boat Trailers in Park	
Notes/Comments:	
(Please document conditions of over	

SWIM BEACH SURVEY FORM

Date:	_ Day of Week:		Time:
Lake Area Number:	Recreation Area Name:		
Weather Conditions:			
Survey Team Number:	Survey Team Me	ember Names:	
located inside of a developed rebeach. 1) Water Area: The area used f 2) Sand Area: The sand area im 3) Turf & Other Land Area: The restrooms, picnic shelters, picn number of people in each of the	or swimming and deline imediately adjacent to t a land areas immediately ic tables, benches, outd nese three areas. acility count form, enter	re three general design of eated with a buoy line. he delineated swimming y adjacent to the sand are loor showers, playground or the number of car park	
Photograph: A digital photogra	그 아이는 그 이렇게 다시네요. 그리구는 그런 그 그림을 보았다.		ions at the swim beach.
Number of People in Wat		Total Number (See Facility C	r of Car Parking Spaces:
Number of People on Sand Area:		Number of En Car Parking S	npty paces:
Number of People on Turf & Other Land Are	as:		
Notes/Comments:			
(Please document conditions	s of overcrowding suc	h as, parking on grass	or undesignated areas)

BOAT RAMP PARKING LOT SURVEY FORM

Date:	Day of Week:	Time:
Lake Area Number:	Recreation Area	Name:
Weather Conditions:		
Survey Team Number:	Survey Team Me	ember Names:
within designated recreation a number of boats on the lake a more than one boat ramp and within walking distance of a ca within the campground, must station and advise the gate at located within the boat ramp	areas. By counting the number of well as the origination I associated parking area. I ampground, the number of also be counted. When of tendant. Count the total parking area. Then count for each. Then count the	er of empty boat trailers located at boat ramp parking lots umber of empty boat trailers we are able to determine the location for that boat. Some recreation areas may have. When the boat ramp is located within a campground, or is of empty boat trailers located at campsites or parking areas entering a campground, you must stop at the entrance number of car/trailer spaces and total number of car spaces to the number of empty car/trailer spaces and empty car e number of empty boat trailers and enter the number. Inditions.
Total number of car/trailer	parking spaces:	Total number of car parking spaces:
Number of empty car/trail	er parking spaces:	_
Number of empty boat trailers:		Number of empty Car Spaces:
If this recreation area is a campground, enter the number of empty boat trailers located at campsites or other parking areas, within the campground:		
Notes/Comments:		
(Please document conditions of	of overcrowding such as p	parking on the grass or undesignated areas)

SHORELINE ACTIVITY OBSERVATION FORM

Date:	Day of Week:	Time:
Lake Area Number:	Location Description:	
Weather Conditions:		
Survey Team Number:	Survey Team Member Nai	mes:
activities along the shore swimming/wading along	line, outside of designated rec	ns of people participating in recreational reation areas. These activities include; shoreline or pier, walking/hiking along or from the shoreline.
occurring along the shore		notice significant recreational activity eloped and designated recreation areas, nal activities.
Photograph: Take a digita map.	al photograph to document the	e activity and mark the location on a
Place an 'X' next to th	ne activity observed, take a ph	notograph and mark location on map
Fishing from Shoreline: _		
Swimming/Wading:		
Walking/Hiking:	-	
Wildlife/Nature Viewing/	Photography:	
	Describe):	
Notes/Comments:		

Survey Team Schedules, Safety Information and Emergency Contact Numbers

Safety First:

ALWAYS THINK ABOUT SAFETY! The safety of you and those around you is of utmost importance and is top priority. Do not put yourself or those around you in an unsafe or compromising situation. You are going to be working in an outdoor environment where hazards exist. You will be operating vehicles in areas where there are large numbers of pedestrians, including children. Always, exercise extreme caution while operating your vehicle. Drive slowly and pay attention to the environment and situations around you. You will be around people that are recreating, which means they may be socializing, drinking and not paying close attention to what they are doing. Do not allow yourself to become involved in situations that you are not responsible for. If you observe situations that require the attention of law enforcement or emergency services, remove yourself from harm's way and notify the proper authorities, by dialing 911. US Army Corps of Engineers Park Rangers as well as county law enforcement officers routinely patrol designated recreation areas. Their vehicles are clearly marked. Also, remember that most campgrounds have a gate attendant on duty at the entrance station. They are trained on how to handle most emergencies. Again, THINK SAFETY AT ALL TIMES!

Daily Schedules:

There will be two surveys conducted each survey day; one in the morning and one in the afternoon. The preferred time for the morning survey is between 11AM and 1PM. The preferred time for the afternoon survey is between 2PM and 5PM. Lunch should be taken in between the two survey periods. We have tried to balance the workload among teams as best as possible. However, depending on the recreation area being surveyed, number of visitors and traffic, there may be times that a team will complete their surveys in a short amount of time. If this occurs, please check with the other survey teams within your group to see if they need assistance in completing their surveys. Please use your time wisely and gather as much data and information as possible. The only opportunity we have to obtain this data and information is through these surveys. So, be productive and gather as much useful information as possible. Help other team members when they need help.

Start of Each Day: Each team should meet at a designated time and location each day. Team Leaders will provide you with any specific instructions for the day.

End of Each Day: Each team should meet at a designated time and location each day. Team Leaders will be collecting your survey sheets from that day and will also lead a lessons learned discussion.

Questions:

If you have questions related to the surveys you are conducting you can contact either of the following people:

* Brad Keshlear: 404-309-4598 * Michael Belvin: 210-439-9486

Also, please share your cell phone numbers with everyone on your team.

Activity Hazard Analysis Recreation Study Surveys

HAZARD	CONTROLS		
Walking	Be alert of walking surface.		
Prolonged Standing/Walking	Be in good physical condition. Take breaks as required.		
Physical assault from irritated, distraught, or intoxicated individuals	Knowledge of non-threatening communications. Know how to get assistance. Knowledge of self-defense and avoidance procedures.		
Ankle Injuries	Wear proper field boots with ankle height of at least 4 inches.		
Slips/Trips/Falls	Wear proper field boots and be observant of terrain.		
Walking on Boat Docks over water	Be alert of walking surface. Be aware of tripping hazards. If you don't know how to swim, wear a life jacket.		
Falling on slippery or rugged terrain	Wear proper field boots and be observant of terrain.		
Snake Bites	Wear proper field boots. Do not harass/kill snakes.		
Animal Bites	Wear proper clothing. Do not approach animals. Use caution and composure when encountering animals.		
Insect Bites & Stings	Knowledge and avoidance of such insects. Caution and knowledge of any allergies to such bites or stings. Do not wear perfume or cologne. Know where to obtain first aid.		
Tick Bites	Wear proper clothing. Light colored long sleeved shirts tucked inside pants. Make frequent checks for the presence of ticks an use proper removal techniques if found.		
Poisonous Plants	Knowledge and avoidance of such plants. Wash after contact.		
Exposure to the Elements			
Cuts & Bruises	Wear proper clothing. Use caution.		
Motor Vehicle Operation/Accidents	Obey traffic laws. Adjust vehicle operation to road and weather conditions. Watch out for pedestrians. Reduce speed appropriately. Employ defensive driving techniques. Stay alert.		
Air/Motion Sickness	Focus on the horizon. Minimize reading. Limit viewing through binoculars and cameras. Breathe fresh air. Take over the counter medication to help minimize motion sickness.		

D .		
Date:		

Cell Phone Contacts

Team Number	Team Leader Name and Number	Team Member Name	Cell Phone Number
1			
1			
2			
2A			
2B			
2B			
2C			
3			
3A			
3A			
3B			
4			
4A			
4B			
4C	-		
Helicopter			
Helicopter			
All	Michael Belvin	Michael Belvin	210-439-9486
All	Brad Keshlear	Brad Keshlear	404-309-4598

Recreation Study/Survey Terminology

Terminology	Description/Definition	
Boat Launch Lane	The lane used for launching a boat on from a boat ramp. A boat ramp can have multiple launch lanes.	
Boat Ramp	A developed, improved surface for the launching of boats. Concrete is the standard surface for boat ramps.	
Car Parking Space	A marked or painted stripe, delineating the area for parking a vehicle.	
Car/Trailer Parking Space	A marked or painted stripe, delineating the area for parking a vehicle with a trailer attached.	
Designated/Developed Recreation Area	An area designed, developed and operated to provide outdoor recreation opportunities.	
Dispersed Use Recreation	The visitation that occurs on USACE land and water that is located outside of designated recreation areas and which is not captured via any type of traffic counting device.	
Dry Dock/Rack Storage	Boat storage on land or stack system. Boats are moved to and from the water using a specialized fork lift	
Gate Attendant	A Person that controls entry to a recreation area, where fees are typically charged.	
Lake Area Number	For this recreation study, Eufaula Lake has been divided into six areas and each assigned a lake area number one through six.	
Land/Water Interface Recreation	Outdoor recreation activities and/or facilities that require the use of both land and water. Examples include; fishing from the shoreline, boat ramps, swimming beaches, etc.	
Land-based Recreation	Outdoor recreation activities and/or facilities that occur entirely on land.	
Moorage	A location, on the water, where a boat is securely stored when not being used.	
Project Master Plan	The primary document that provides overall guidance for recreation area and facility development at a USACE Civil Works Project, such a Eufaula Lake.	
Recreation Facility	Facilities in a recreation area, designed and used for outdoor recreation purposes. Examples include; campsites, boat ramps, swim beaches, picnic sites, etc.	
Shoreline Management Plan	A plan, which establishes guidelines for balancing public and private use of shorelines, to ensure resource protection and safety for use by the general public. The plan designates segments of shoreline for certain public and private uses.	
Tethered Boat	A boat that is temporarily tied to a stationary object when not actively being used for recreation.	
Undesignated Parking	Vehicular parking that occurs anywhere not specifically designed or designated to accommodate vehicle. Examples include; parking on sides of roads and parking on grass areas.	
Undesignated Recreation Area	An area used for recreation that was not designed or intended to be used for recreational purposes. Examples include natural sand bars areas of sandy shoreline not within the confines of a developed and designated recreation area.	
Vessel	Any type of craft that can be operated on or in the water.	
Water-based Recreation	Recreation that occurs solely on or in the water. Examples include; boating, water skiing, swimming, etc.	
Wet Slip	A designated space on the water for storing a boat. Typically located at a marina or private boat dock.	

