

Increasing Woody Habitat



ERIC EDWARDS

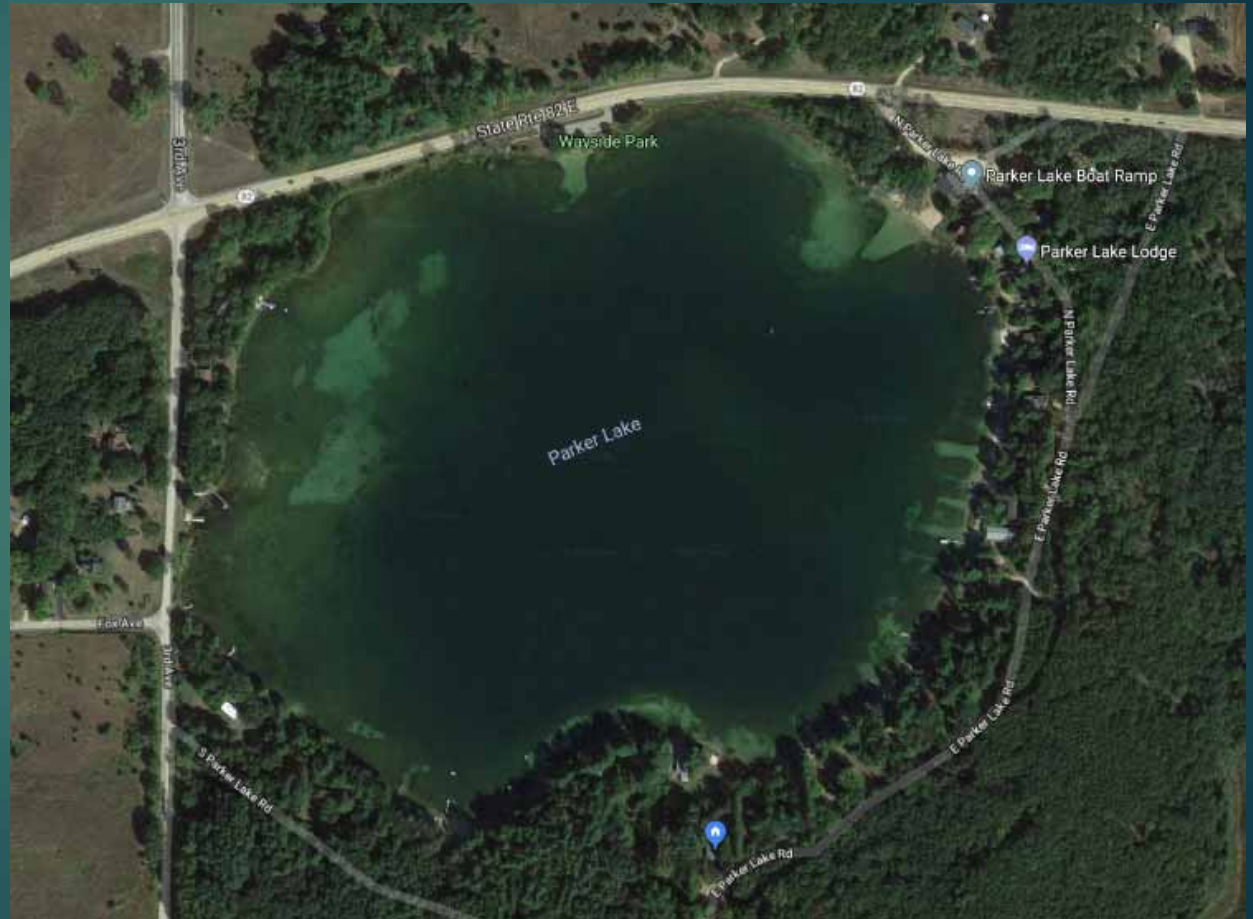
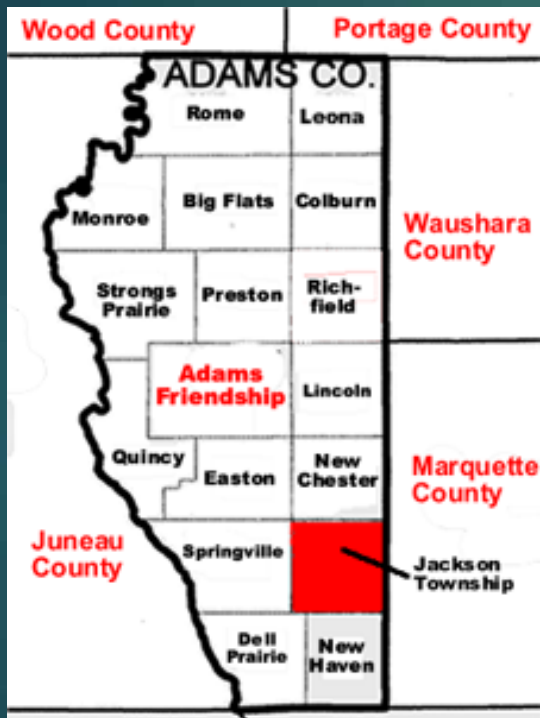
PRESIDENT, PARKER LAKE ASSOCIATION
CHAIR, ADAMS COUNTY LAKE ALLIANCE

Discussion

Planning
and
Construction



Parker Lake



Timeline: 18 months + Planning

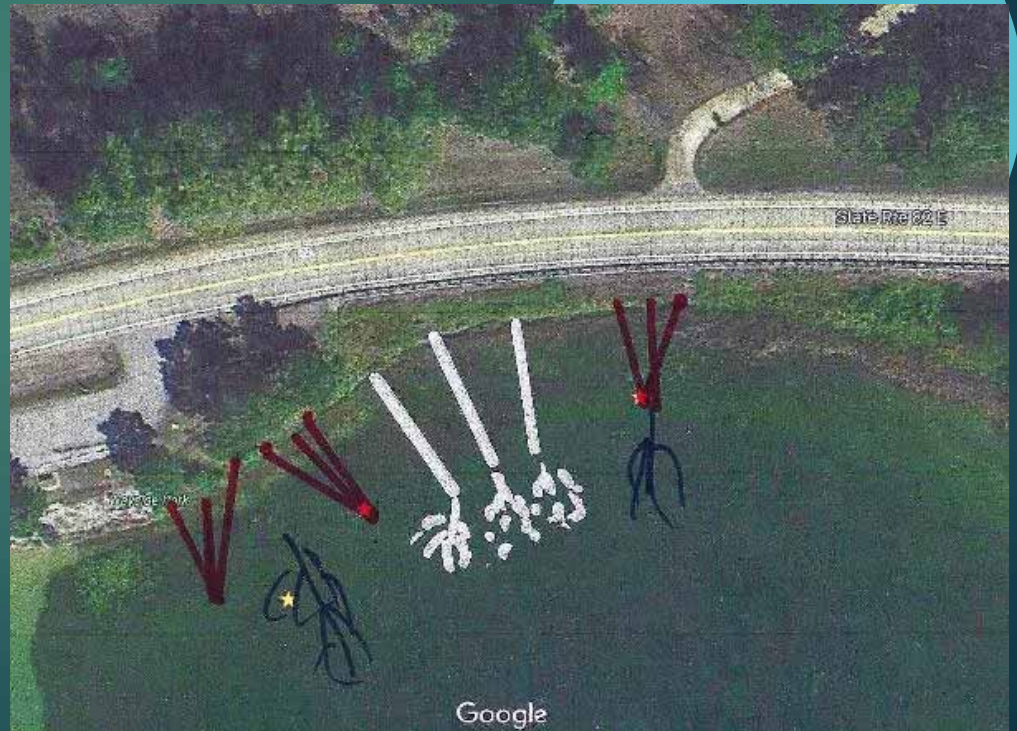
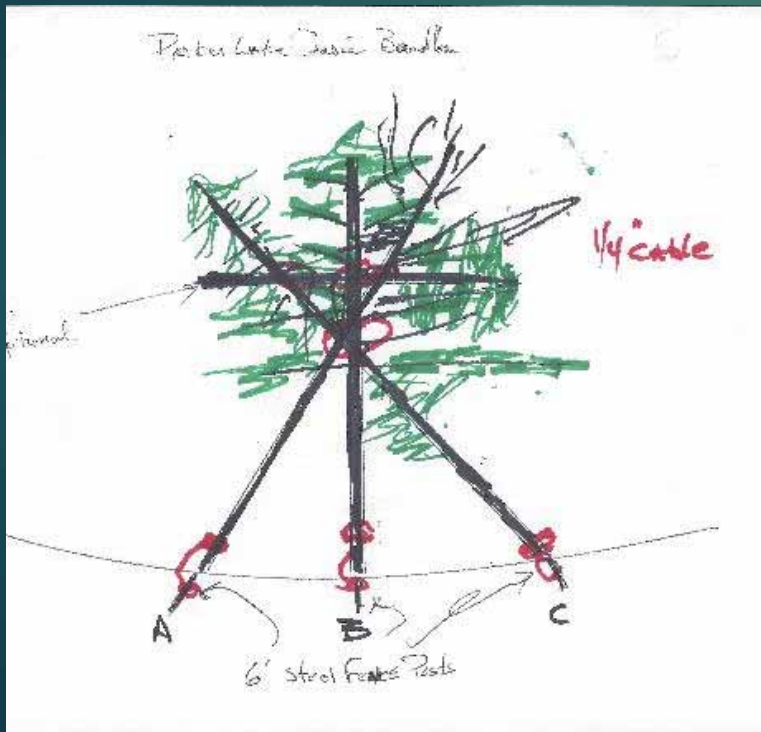
- ▶ Establish “Improvement of fishery” as a Goal in your Lake Management Plan
- ▶ Confirm the need with conservation partners
 - ▶ Observation
 - ▶ Baseline statistics
- ▶ Check for Grants

Timeline: 9 to 18 months + Planning

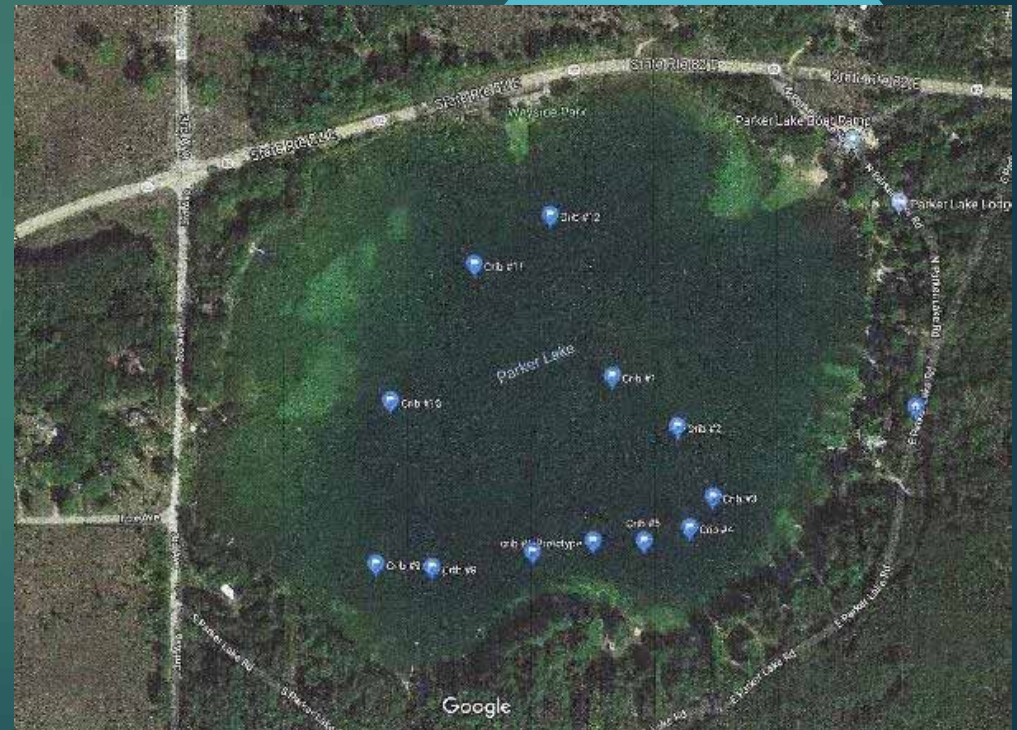
- ▶ Supporting Documents
 - ▶ Identify sources for funds: Grants?
 - ▶ Budgets
 - ▶ Permits
 - ▶ Permissions
 - ▶ Support Materials

	FishSticks		FishCribs	
	2 Winters- 8 Sites		1 Winter- 12 Sites	
Purchased				
Logs		-		\$790
Tree Expert		\$6,650		-
Special Supplies		-		\$266
1/4 cable	750	\$155		-
1/4 Clips	144	\$100	96	\$88
5' Stakes	21	\$72		-
1/4 Rope		-	500	\$58
Misc.		\$290		\$55
Block		-	96	\$96
Rebar		-	24	\$50
Screws		-	400	\$67
Equipment		\$29		-
Food		-		\$184
Total Purchased			\$7,296	\$1,654
Donated				
Timber		\$3,000		-
Equipment		\$340		\$703
Mileage		\$70		\$1,080
Labor		\$1,423		\$2,200
Food		\$172		-
Total Donated			\$5,005	\$3,983
Total Cost			\$12,301	\$5,637
Cost per unit			\$1,538	\$470

Timeline: 9 to 18 months Planning - Support Materials



Timeline: 9 to 18 months Planning - Support Materials





Timeline: 6 to 9 months Planning

- 
- ▶ Finalize issues of Grants, funding, budgets and, neighbors' permissions
 - ▶ Community Presentation- Sell & Recruit

Timeline: 3 to 6 months

Planning

- ▶ Timber Sourcing-
 - ▶ FishCribs
 - ▶ 16 to 20 logs per crib, 8' long, 5" to 8" in diameter
 - ▶ 10 to 12 straight, 8' long "poles", 3" in diameter
 - ▶ FishSticks- minimum of 3 trees, 40 feet or longer, preferably mix

Timeline: 3 to 6 months

FishSticks- identify, mark and map trees to be harvested



Timeline: 3 to 6 months

- ▶ Promote-“Save the Date” - tentative dates plan around Super Bowl- Feb 03 2019
- ▶ Confirming letters- for “permissions” (tree source and access points properties), Log source and Tree Expert

Timeline: 3 to 6 months

- ▶ Flag access points and hazards
- ▶ Set FishStick stakes



Timeline: 30 to 90 Days Recruit Labor

- ▶ Promote- email
- ▶ Labor sources:
 - ▶ Local residents
 - ▶ Ice fishermen
 - ▶ County and other Lake Groups



Timeline: 30 to 90 Days

Recruit Labor

▶ FishCribs

- ▶ 4 to handle Log Prep
- ▶ 1 - 2 to drag logs, block and, poles to site
- ▶ 4 – 6 to build Cribs
- ▶ 2 – 3 to stuff brush and secure top poles



Timeline: 30 to 90 Days

Recruit Labor

- ▶ FishSticks –
 - ▶ 2 – 3 to cut cables and tether logs
 - ▶ One Tree Expert Team
-----or-----
 - ▶ 4 to 6 more “heads”
 - ▶ And...



Timeline: 30 to 90 Days Transition- Secure Equipment FishSticks


- ▶ And.....
 - ▶ Heavy duty 4wd trucks
 - ▶ Chain Saws
 - ▶ Choker Chains and other heavy duty chains
 - ▶ BobCat or Skid Steer
 - ▶ Insurance





Timeline: 30 to 90 Days Transition- Secure Equipment FishSticks

▶ Continued

- B/O Impact Driver
 - Gas Powered Drill
 - 3/4" x 15-18" auger bit
 - 3/8" wire cutter
 - ATVs
 - Utility Trailers
 - Gloves
 - Deep Wall Sockets and adapters
- 

Timeline: 30 to 90 Days

Transition- Secure Equipment FishCribs

- B/O Impact Driver
- Gas Powered Drill
- 3/4" x 15-18" auger bit
- Reciprocating saw w/
Metal and Wood blades
- Choker Chains and
others
- ATVs
- Utility Trailers
- Gloves
- Deep Wall Sockets
and adapters
- B/O Drill

Timeline: 30 to 90 Days Transition- Secure Equipment FishSticks& FishCribs



Timeline: 14 to 30 Days

- ▶ Measure Ice
- ▶ Plow Ice Road as needed



Timeline: 14 to 30 Days

Buy Supplies

- ▶ FishSticks-
 - ▶ ¼" Galvanized Cable
 - ▶ ¼" Cable Clamps



Timeline: 14 to 30 Days

Buy Supplies

▶ FishCribs

- ▶ Rebar – 3/8" by 10 feet- 2 per crib
- ▶ Cable Clamps - 1/4" , 8 per crib
- ▶ 1/4" nylon rope, 48 feet per crib
- ▶ Heavy Cement Blocks, 8 per crib
- ▶ T25- GRK 3 1/2" - 5" Construction Screws
- ▶ Flags/Fluorescent marking paint



Timeline: 0 to 14 Days Construction

- ▶ Both – check ice; confirm date
- ▶ FishSticks- review with Tree Expert:
 - ▶ Sourcing, access and drop sites
 - ▶ Specific trees to certain drop sites
- ▶ FishCribs
 - ▶ Cut Rebar to 5' lengths; 4 to a group
 - ▶ Cut nylon rope to 6' lengths; 8 to a group
 - ▶ Bag 1/4" wire clamps; 8 to a bag
 - ▶ Tape together



Timeline: 0 to 14 Days Construction- Log Prep

- ▶ FishCribs – Distance between, and, angle of holes in Logs are critical
 - ▶ Create a 2x4x8 “template” for distance between
 - ▶ Use Bull’s eye level to drill holes with correct alignment
- ▶ Spray paint holes fluorescent orange

Timeline: 0 to 14 Days Construction- Site Prep

- ▶ Maintain ice road to sites
- ▶ Flag/mark GPS sites



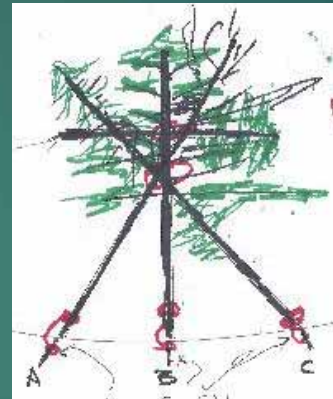
Timeline: 0 Construction

- ▶ FishSticks
 - ▶ Let Tree expert work
 - ▶ Check positioning
 - ▶ Clean-up



Timeline: 0 Construction

- ▶ FishSticks- continued
 - ▶ Auger holes
 - ▶ Tether together and to stakes



Timeline: 0

Construction - FishSticks



Timeline: 0 Construction

- ▶ FishCribs
 - ▶ Haul logs, block and material to site to crib site
 - ▶ Tighten wire clips on rebar and insert in bottom 2 logs
 - ▶ Build base of two rows (four logs)
 - ▶ Screw-in 5 poles to bottom logs



Timeline: 0 Construction

- ▶ FishCribs -#2
 - ▶ Position 8 Concrete blocks on poles – 4 per side
 - ▶ Tie-in
 - ▶ Add next row of logs



Timeline: 0 Construction

- ▶ FishCribs - #3
 - ▶ Continue to construct "Log Cabin" to about 4 ½ feet
 - ▶ Attach top cable clips to rebar
 - ▶ Cut rebar
 - ▶ Leave top poles off



Timeline: 0 Construction

- ▶ FishCribs - #4
 - ▶ Fill Crib with brush and limbs
 - ▶ Attach poles to top



Timeline: 0 Construction

- ▶ FOOD!
 - ▶ Coffee and Donuts
 - ▶ Lunch



Timeline: 0 to 7; to Ice Off Post- Construction

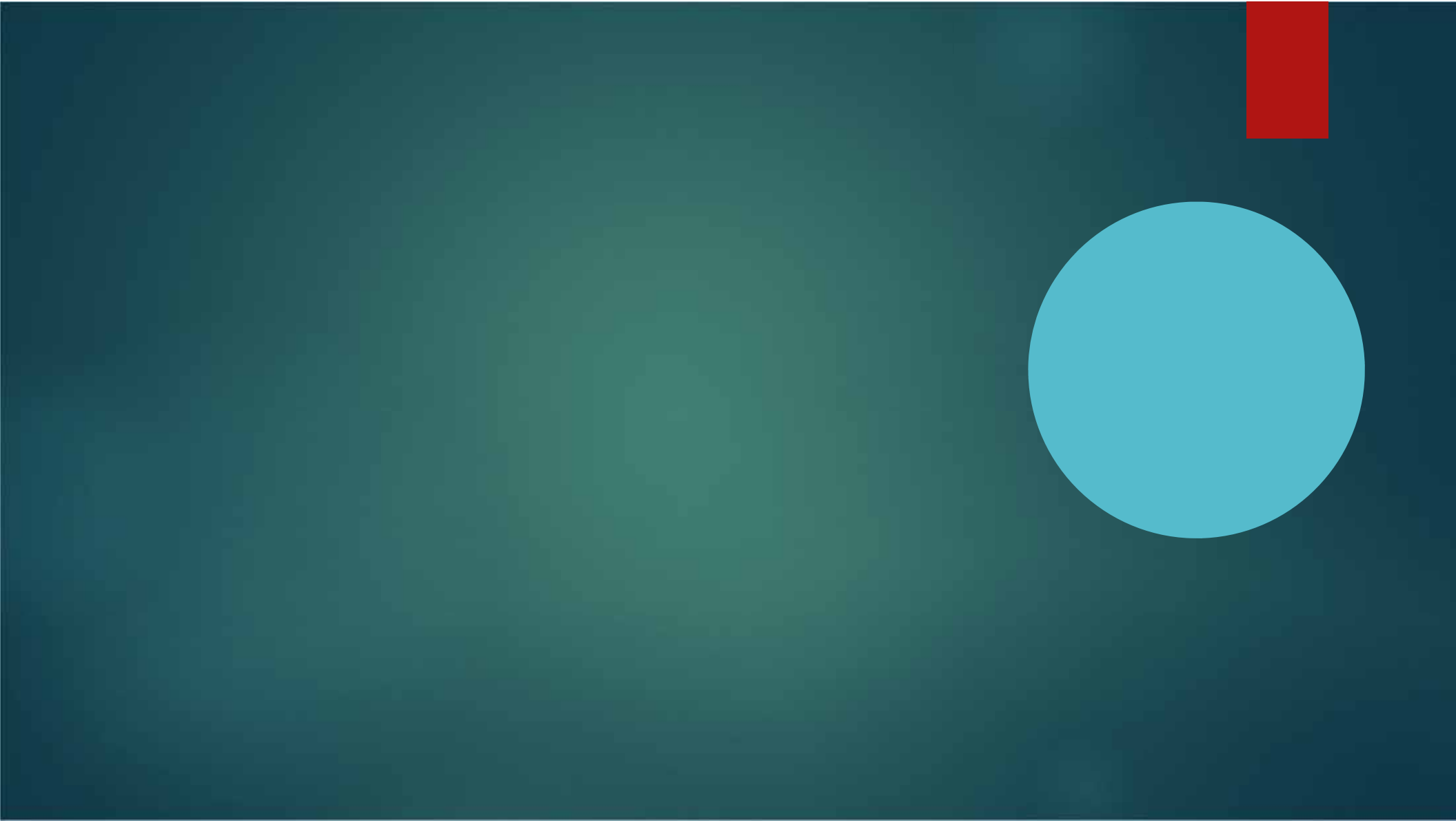
- ▶ Both
 - ▶ Spot check critical securements
 - ▶ FishCribs- check depth
 - ▶ Grants? Submit paperwork

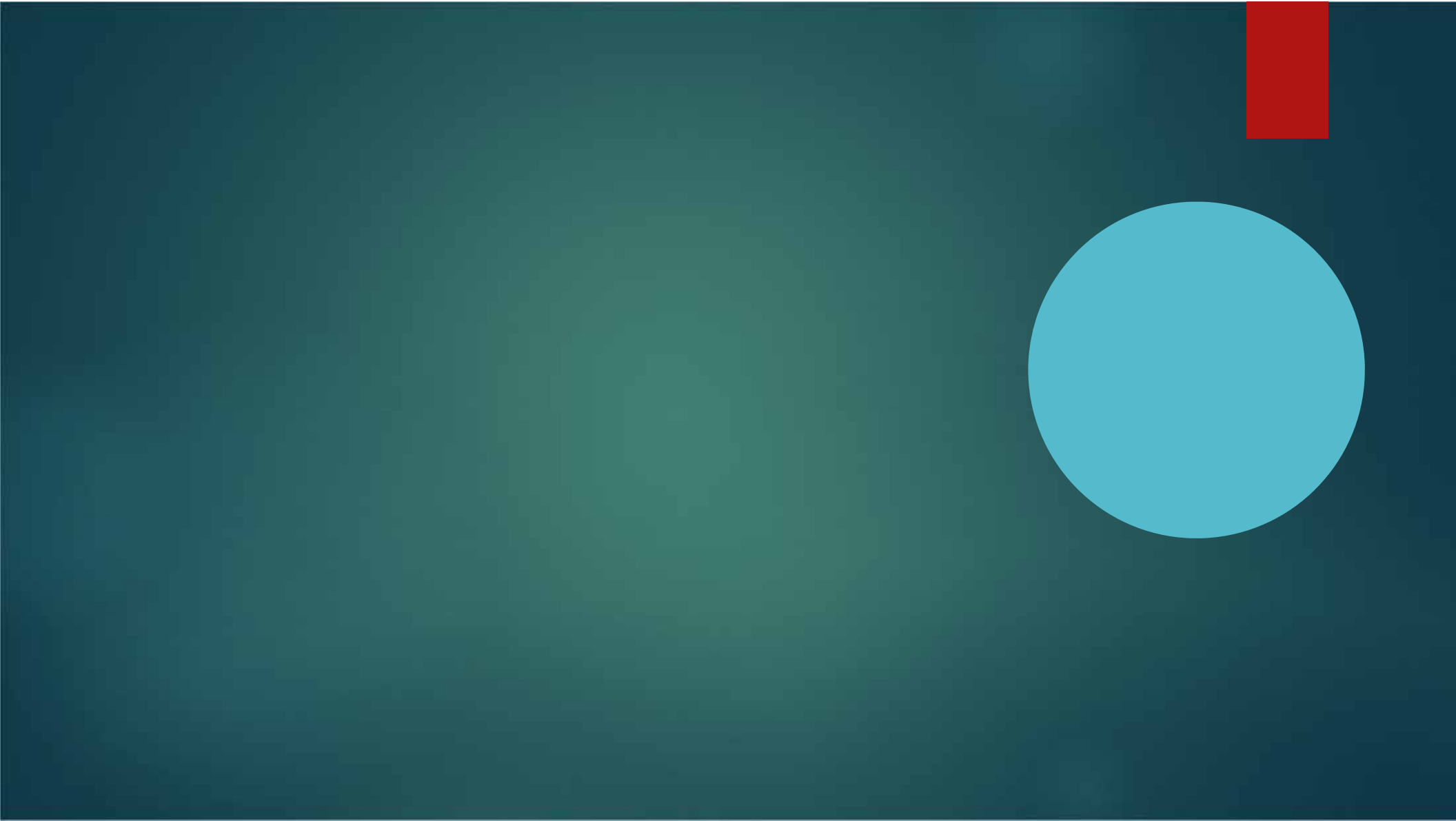


Timeline: 6 to 36 months

Checking and Evaluation

- ▶ Both
 - ▶ FishSticks - remove wire tether and stakes after three years
 - ▶ Evaluation- Goal to improve Fishery
 - ▶ Antidotal information: Creel Survey – Fisherman
 - ▶ Statistical: Shock Survey
 - ▶ Underwater camera





Grant Paperwork

Parker Lake Donated Volunteer Hours

Project worked on

Volunteer Name

Your E-mail

Date of Work - -

Description of work performed

Work hours by:

Equipment used

- Herndon car
- Other equipment
- Both Herndon and other equipment
-

Signature



Grant Paperwork

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
	IP	Submission ID	Submission Date	Project worked on	First Name	Last Name	Your E-mail	Date of Work	Description of work performed	Work hours	Total hours worked	Equip	Equipment used	Odometer Start	Odometer End	Mileage	Total Mileage	Description of equipment used	Equip Hours	Signature
2	66.206.57.236	359101214632145870	01-01-2017 11:33:34	FishCribs- Grant# CC-F8249	eric	Edwards	rebmarketing1997@gmail.com	12-08-2016	pickup block and rebar at Menards	2.5		1.0	Both car and other	1132	1164	32		Car and trailer	5.5	R. Eric Edwards
3	66.206.57.236	359101062632275958	01-01-2017 11:31:02	FishCribs- Grant# CC-F8249	eric	Edwards	rebmarketing1997@gmail.com	12-19-2016	pickup block and rebar at Menards	2.5		1.0	Both car and other	1866	1933	67		Car and trailer	2.5	R. Eric Edwards
4	66.206.57.93	3615033402937833469	01-29-2017 06:49:00	FishCribs- Grant# CC-F8249	Eric	Edwards	parkerlake.eric@gmail.com	01-29-2017	organized workforce, drilled logs, cut poles, hauled wood, built cribs	6.5		1.0	Both car and other equipment					used atv to do stated work, use	6.5	R. Eric Edwards
5	66.206.57.236	3555956488832490928	11-21-2016 11:44:48	FishCribs- Grant# CC-F8249	eric	Edwards	parkerlake.eric@gmail.com	11-18-2016	picked up logs 2nd trip	0.8		1.0	Both car and other	280	215	15		atv & trailer to haul wood, 2nd t	0.8	R. Eric Edwards
6	66.206.57.236	35559590631090000	11-21-2016 11:43:10	FishCribs- Grant# CC-F8249	eric	Edwards	parkerlake.eric@gmail.com	11-18-2016	picked up 8' logs	2.5		1.0	Both car and other	215	201	14		atv & trailer to haul wood	2.5	R. Eric Edwards
7	66.206.57.236	35564337763293234	11-22-2016 11:02:57	FishCribs- Grant# CC-F8249	Eric	Edwards	ParkerLake.Eric@gmail.com	11-22-2016	Build/assemble crib. Drive to Portage to get new drill bit.	3.5		1.0	Both car and other	431	458	27		drill, chainsaw, tractor, trailer	2.0	R. Eric Edwards
8	66.206.57.236	360300485632880148	01-15-2017 08:41:25	FishCribs- Grant# CC-F8249	Eric	Edwards	REBmarketing1997@gmail.com	01-14-2017	Pickup Concrete block. Used car and trailer	3.4		1.0	Both car and other	3092	3159	67		Pickup Concrete block. Used ca	3.4	R. Eric Edwards
9	66.206.57.236	360471043632567755	01-17-2017 08:04:03	FishCribs- Grant# CC-F8249	Eric	Edwards	REBmarketing1997@gmail.com	01-16-2017	Worked with trucker to off-load logs, had parking lot sanded	2.5		1.0	Personal car	3161	3170	9	231			R. Eric Edwards
10	66.187.95.221	363055120122159122	02-04-2017 16:05:20	FishCribs- Grant# CC-F8249	Brent	Olson	brentolson2486@yahoo.com	02-04-2017	build, haul, assemble cribs	4.0		1.0	Other equipment			171		sawzall, steel and wood blade	4.0	Brent Olson
11	68.115.33.180	363183469081808458	02-17-2017 11:57:49	FishCribs- Grant# CC-F8249	BRENT	OLSON	BRENTOLSON2486@YAHOO.COM	01-11-2017	HAUL MATERIALS, BUILD CRIBS, CUT REBAR	4.0	14.5	1.0	Other equipment			160	331	SAWZALL BLADES WOOD AND ST	4.0	Brent Olson
12	66.188.139.54	363187170459156878	02-17-2017 12:38:30	FishCribs- Grant# CC-F8249	Brian	Sell	brcell@charter.net	01-28-2017	assembled fish cribs	3.5	3.5	1.0	Personal car							Brian Sell
13	66.187.35.221	362048978122189735	02-04-2017 14:22:58	FishCribs- Grant# CC-F8249	susan	sherry	s.sherry@tds.net	02-04-2017	build haul assemble fish cribs	4.0	10.5	1.0	Personal car	77930	78010	80	80			susan sherry
14	66.206.61.76	356075103671926749	11-27-2016 10:25:03	FishCribs- Grant# CC-F8249	Robert	Warber	parkerlake@aol.com	12-14-2016	driving personal truck for supplies	4.0		1.0	Personal car	19903	19965	62				Robert R. Warber
15	66.206.61.76	3560732656719182690	11-27-2016 10:27:45	FishCribs- Grant# CC-F8249	Robert	Warber	parkerlake@aol.com	11-15-2016	driving personal truck for supplies	3.0		1.0	Personal car	19987	20049	62				Robert R. Warber
16	71.194.173.130	363327653031421200	02-19-2017 09:35:33	FishCribs- Grant# CC-F8249	Robert	Warber	parkerlake@aol.com	01-27-2017	building fish cribs	9.5		1.0	Personal car	21515	21520	205				Robert R. Warber
17	71.194.173.130	363327762031216186	02-19-2017 09:36:02	FishCribs- Grant# CC-F8249	Robert	Warber	parkerlake@aol.com	01-28-2017	Building Fish Cribs	8.0		1.0	Personal car	21520	21597	77				Robert R. Warber
18	71.194.173.130	363327878031626417	02-19-2017 09:37:59	FishCribs- Grant# CC-F8249	Robert	Warber	parkerlake@aol.com	01-29-2017	Building Fish Cribs	6.5		1.0	Personal car	21597	21802	205				Robert R. Warber
19	71.194.173.130	363328002031847910	02-19-2017 09:40:02	FishCribs- Grant# CC-F8249	Robert	Warber	parkerlake@aol.com	02-11-2017	Building Fish Cribs	9.0		1.0	Personal car	21904	22107	203				Robert R. Warber
20	71.194.173.130	363328094031730163	02-19-2017 09:41:34	FishCribs- Grant# CC-F8249	Robert	Warber	parkerlake@aol.com	02-12-2017	Building Fish Cribs	2.5	48.5	1.0	Personal car	22107	22267	160	974			Robert R. Warber
21	71.194.173.130	363326526031744308	02-19-2017 09:15:26	FishCribs- Grant# CC-F8249	Mike	Warber	warby224@aol.com	01-27-2016	building fish cribs	9.0		1.0	Personal car	115458	115646	188				Mike Warber
22	71.194.173.130	363326855031576536	02-19-2017 09:20:55	FishCribs- Grant# CC-F8249	Mike	Warber	warby224@aol.com	01-28-2017	building fish cribs	8.0		1.0	Personal car	115646	115704	58				Mike Warber
23	71.194.173.130	363327053031906411	02-19-2017 09:24:13	FishCribs- Grant# CC-F8249	Mike	Warber	warby224@aol.com	01-29-2017	build fish cribs	6.0		1.0	Personal car	115704	115867	163				Mike Warber
24	71.194.173.130	363327168031796375	02-19-2017 09:26:08	FishCribs- Grant# CC-F8249	Mike	Warber	warby224@aol.com	02-11-2017	build cribs	8.5		1.0	Personal car	117524	117710	186				Mike Warber
25	71.194.173.130	363327270031686721	02-19-2017 09:27:50	FishCribs- Grant# CC-F8249	Mike	Warber	warby224@aol.com	02-12-2017	build cribs	3.0	34.5	1.0	Personal car	117710	117893	183	778			Mike Warber
26	66.206.57.93	356581896397581495	12-03-2016 07:44:56	FishCribs- Grant# CC-F8249	Eric	Edwards	ParkerLake.Eric@gmail.com	11-29-2016	Reworking, rebuild crib;	4.5		1.1	Other equipment					Tractor, chainsaw, drills	2.0	R. Eric Edwards
27	66.206.57.93	362888510397392321	02-14-2017 07:35:10	FishCribs- Grant# CC-F8249	Eric	Edwards	parkerlake.eric@gmail.com	02-11-2017	loaned atv	0.0		1.1	Other equipment					loaned ATV for use Brent Olson	5.5	R. Eric Edwards
28	66.206.57.93	362888307397111715	02-14-2017 07:31:47	FishCribs- Grant# CC-F8249	Eric	Edwards	Parkerlake.eric@gmail.com	02-11-2017	build cribs- stuff brush, clean-up	3.5		1.1	Other equipment					atv	3.5	R. Eric Edwards
29	66.206.57.93	362888124397387784	02-14-2017 07:28:44	FishCribs- Grant# CC-F8249	Eric	Edwards	Parkerlake.eric@gmail.com	02-13-2017	Cleaning -up and burning debris	2.0		1.1	Other equipment					atv	1.0	R. Eric Edwards
30	66.206.57.236	363175806632647898	02-17-2017 15:23:26	FishCribs- Grant# CC-F8249	eric	edwards	parkerlake.eric@gmail.com	02-17-2017	followed up volunteer hours, paperwork, tried to burn debris, checked cribs as someone untied the markers	3.5		1.1	Other equipment					ATV	1.8	R. Eric Edwards
31	66.187.35.221	361465414122359788	01-28-2017 20:16:54	FishCribs- Grant# CC-F8249	susan	sherry	s.sherry@tds.net	01-28-2017	Building fish cribs	6.5		1.1	Other equipment					drill's	2.0	susan sherry
32	65.31.160.100	362065444001665744	02-04-2017 18:57:24	FishCribs- Grant# CC-F8249	Ted	Swanson	Tswanson8@wi.rr.com	02-04-2017	Piled brush into cribs	8.0	14.5	1.1	Other equipment					Chainsaw		Ted Swanson
33	66.206.57.236	359099018632230963	01-01-2017 10:56:58	FishCribs- Grant# CC-F8249	eric	Edwards	rebmarketing1997@gmail.com	12-31-2016	assembly of 44 rebar supports	1.0			None							R. Eric Edwards
34	66.206.57.93	359206332397951645	01-02-2017 16:45:32	FishCribs- Grant# CC-F8249	Eric	Edwards	parkerlake.eric@gmail.com	01-02-2017	cut wire to secure concrete blacks; 7 bundles of 8 wires and one 8' rope	3.3			None							R. Eric Edwards