

F O C L



2015 Clean Up Report



The Friends of Claytor Lake, Inc.

January 31, 2016



Table of Contents:

2015 Clean Up Report:
History.....
2015 Clean Up Work
2015 Results
Clean Up Day.....
2016 Estimates
Maps

History:

FOCL

The Friends of Claytor Lake (FOCL's) mission statement states FOCL is dedicated to preserving and protecting the quality, sustainability, and tranquility of the environment of Claytor Lake for all. FOCL obtained 501(c)(3) status in 1999 initially and permanently in 2005. Clean up is an integral part of our mission.



History & Equipment

In 1992 FOCL began clean up in response to Peak Creek becoming blocked by debris and running red in color. FOCL began with volunteers and open boats hauling out trash and debris.



These dedicated few evolved into a major operation through the dedicated efforts of many volunteers and partners. In 2012 our current effort included a four person crew working

with 2 barges holding roll-off dumpsters, a conveyor sitting atop a third barge, small salvage boat, and a small v-hull fishing boat. The crew worked in the water with chain saws clearing woody debris and trash from the shore. The majority of debris was harvested by an excavator operating on barges. Smaller debris is pushed onto a conveyor which loaded it into roll off containers. Trash, tires, and other objects are raked out, picked up and bagged, and transported to county landfill facilities provided by Pulaski County.

Clean up is funded from many sources including Pulaski County, American Electric Power, and FOCL donations from a variety of sources. Clean up at Claytor Lake serves 2100 lake affected residents along with the estimated 453,743 visitors to the Claytor Lake State Park and public boat landings plus those from private marinas annually. The average dumpster roll-off weighs an estimated minimum of 15 tons with water logged woody debris. In addition, 100 trash bags equals a full roll-off at an estimated 4-5 tons.

Previous Year Totals:

2014: 304.5 Roll-Offs, 637 Bags of Trash, 179 Tires/Wheels, 24 55 Gallon Barrels, 35.5 Docks, 1 Freezer, 1 Water Heater, 1 Propane Tank, 1 Waterski Jump, 1 Metal Boat House, 1 Car Gas Tank, and 1 set of steps.

2013: 305- roll-offs, 380 Trash Bags, 85 Tires, 15- 55 gal. barrels, 3 propane tanks, 25 docks, and 2 refrigerators.

2012: 147 Roll-Offs, 301 Trash Bags, 46 Tires, 4 Docks, and 3 55 Gallon Barrels

2011: 234.5 Roll-Offs, 388 Trash Bags, and 86 Tires

2010: 209 Roll-Offs, 294 Trash Bags, and 52 Tires

2009: 103 Roll-Offs, 646 Trash Bags, and 123 tires

Each year is accompanied by other abandoned docks, appliances, barrels, styrofoam, and other miscellaneous items. This was accomplished at a cost of \$31 per ton.

2015 Clean Up Work:

Clean up operations commenced in March. Two of the major changes to the clean up program was the purchase of a tapered front section of the barge commonly called a “rake” which allow the crew to get the barge and excavator into shallower waters for clean up and allow use of the conveyor in other areas while keeping the crew out of the water cutting down on potential accidents.

For safer operation, the conveyor barge was fitted with ladders on both sides for the crew as well as rubber tracks being added to the excavator for safer operation. The main barge deck was fitted with galvanized plates for easier maneuverability for the excavator.



As part of a year end project in conjunction with AEP and Pulaski County, FOCL worked diligently on repairing, restoring, and improving the shoreline around the perimeter of Harry DeHaven park. This included the construction of moldings for concrete reinforcements, added rip rap along the shoreline, and additional top soil and grading to dramatically improve the overall look of Harry DeHaven park as well as adding protection from erosion from the elements.

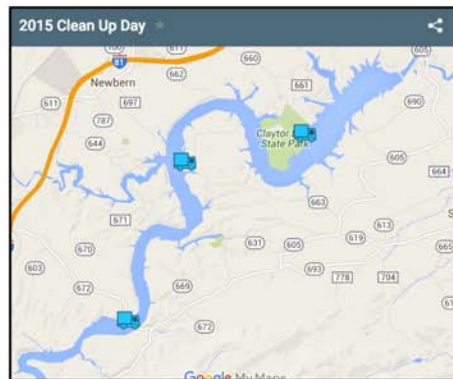
In December, the crew began burning the debris pile at Big Hole Hollow in order to prepare the area for 2016 and all clean up operations were completed on January 19, 2016.

Monitoring and Inspection:

Continued joint efforts monitoring and monthly inspection of the lake by FOCL and AEP. These inspections continued every month with a team from FOCL and AEP with occasional inclusion of Pulaski County. The lake was visually inspected from the water from Allisonia to the Dam to determine priority cleaning areas and progress. This year, as last, donations were sought and received from businesses to support FOCL's 2015 clean up operation. Gatorade donated all the Gatorade for our crew, Walmart donated numerous gift cards, Virginia Eagle donated bottled water, Conrad Brothers Marine donated repair, launch, and storage facilities, Valley Welding donated discount repair and fabrication services. Jackson Beamer, FOCL's Vice President, donated the use of his dock to allow the crew to park the FOCL boat and avoid any theft of gear and items as experienced in 2013.

2015 Clean Up Day:

The 2015 All Lake Clean Up got started dodging weather as Claytor Lake was plagued by showers on Saturday and cooler temperatures and wind on Sunday. The Friends of Claytor Lake kept at it getting volunteers both by land and water to help collect trash floating along the shoreline and in the water. Tires, plastic bottles, styrofoam, diapers, cigarette butts, and more were all collected and put in dumpsters provided by Pulaski County for disposal. Organized by FOCL and our sponsors AEP, Pulaski County Board of Supervisors, Virginia Eagle Distributing, Virginia Shoreline, Claytor Lake Watersports, Conrad's Marina, The Rockhouse Marina, and The Claytor Lake State Park, the All Lake Clean Up Day hauled in close to 45 bags of trash, 9 tires, 1 raft, 9 large pieces of styrofoam, 2 plastic chairs, 2 large buckets, and even a toaster oven!



2015 Clean Up Operations:

2015 showed to be another good collection year. Absent of the abundant flooding from 2013 which effected 2014 clean up efforts, the crew quickly made the best efforts to reach not only the frequently visited areas that collected trash but to get into areas where past clean up years have overlooked. This allowed 2015 to collect a considerable amount above previous years.

Roll Off Loads of Woody Debris	232.75
Bags of Trash	452.5
Tires/Wheels	42
55 Gallon Barrels	6
Docks	13
Freezers	1
Water Heaters	1
Propane Tanks	1
Tractor Tire	1



2015 Clean Up Budget:

The following breakdown shows contributions provided to FOCL by Appalachian Power/ American Electric Power and Pulaski County Board of Supervisors. Each year both entities, along with donations from FOCL and other volunteer efforts all contribute to the success of the Clean Up Program.

2015 Clean Up Expense Breakdown

CATEGORY	EXPENDITURES	TOTAL
Repairs	\$ 26,419.17	
Parts	\$ 11,374.47	
Gas	\$ 11,890.23	
Payroll	\$ 77,364.41	
Equipment	\$ 2,039.41	
Insurance	\$ 2,313.01	
Reporting/Storage	\$ 499.96	
Executive Dir. Pay	\$ 10,000.00	
Water Quality	\$ 9,921.97	
	Total Clean Up: \$	151,822.63

2015 Clean Up Hours

MONTHS	HOURS
March	101.00
April	174.50
May	636.00
June	892.50
July	924.50
August	838.50
September	420.00
October	472.75
November	547.75
December	241.50
Total:	5,249.00

2016 Estimates:

The FOCL conveyor became unreliable with break downs in May, July, August, September and October which resulted in many days of partial or no use/production while repairs were made which affected FOCL's 2015 cleanup productivity. The conveyor was patched and temporarily repaired to allow FOCL to complete the 2015 lake cleanup season.

A major rebuild or refurbishment was required as the conveyor bed, support structure and sides were very deteriorated and unstable so they were removed. The frame has been repaired and a new redesigned single conveyor belt bed structure, sides and support structure have been fabricated using thicker 3/16", A36 steel. A high density polyethylene bed liner was installed on the conveyor bed to reduce wear and friction. By converting the conveyor to a narrower single chain belt system to reduce the stress on the structure with new hardened steel rollers and a stronger drive system, FOCL's conveyor will be more reliable with less maintenance required. The existing frame and new conveyor materials were sandblasted, cleaned and painted with epoxy "safety yellow" paint.



By late September the FOCL conveyor barge began leaking with one of the four barge sections almost sinking. Temporary repairs were made by the FOCL crew to allow the cleanup operation to continue. The barge sections were inspected for leaks and deterioration and the barge metal hulls were tested for thickness. FOCL was advised that the bottoms and sides of all four sections needed to be sandblasted, cleaned and covered with new 3/16", A36 steel plating to provide safety and reliable use of our cleanup operation. Once repairs and refurbishment is completed, the barge sections will be cleaned, primed and painted with epoxy "safety yellow" paint with an abrasive added on the top surfaces for safety.

2016 Clean up costs are projected to increase due to equipment maintenance. FOCL continues to work with Clear Creek Water Works on the Water Quality testing along with DEQ. Programs such as sonar mapping and software are continuing and also aided in Pulaski County's efforts for the water intake siltation problem that was potentially facing another cancelled drawdown. FOCL also support costs associated with our Mussel Salvage Day, Clean Up Day, Spring Splash fundraising, Bass for Grass Fishing Tournament and Native Vegetation activities.

We appreciate all the support from AEP and Pulaski County with these endeavors in the past and look forward to continuing to work for the good of Claytor in the coming year.

2015 FOCL Claytor Lake Debris Removal

Date	Location Number	Location Description	Roll off Loads	Tires / Tires	Trash Bags	Barrels	Docks	Miscellaneous
13-May	1	Shoreline - DeHaven	3					
14-May	1	Shoreline - DeHaven	3					
18-May	1	Shoreline - DeHaven	4					
19-May	1	Swimming Area - DeHaven	4					
20-May	1	Inlet plus boat ramps - DeHaven	1					
22-May	1	Boat slips at DeHaven	1					
26-May	1	Inlet - DeHaven	5					
27-May	1	Inlet - DeHaven	4					
28-May	1	Shoreline - DeHaven	3		7			
28-May	2	Shadowland - across from Shadowland					2	
29-May	1	Shoreline - DeHaven	1		3			
1-Jun	1	Inlet - DeHaven	4		2			
1-Jun	3	Shoreline - Lakeview			2			
2-Jun	1	Inlet - DeHaven	3		4			
3-Jun	3	Shoreline - Lakeview	1					
3-Jun	4	Shoreline - Claytor Lake Estates	1	1	2			
4-Jun	4	Claytor Lake Estates	3		4			
4-Jun	1	DeHaven boat launch	0.5					
8-Jun	4	Claytor Lake Estates	1		6			
9-Jun	4	Claytor Lake Estates	0.5		8			
10-Jun	4	Claytor Lake Estates	3.5		2			
11-Jun	4	Claytor Lake Estates	4	2	3	2		
15-Jun	4	Claytor Lake Estates	3	1				
16-Jun	4	Claytor Lake Estates	2		3			
17-Jun	4	Claytor Lake Estates	3	1	15		1	
18-Jun	4	Claytor Lake Estates	3		5		1	
24-Jun	3	Lake View	3		6			
25-Jun	3	Lake View	3		9			
29-Jun	3	Lake View	3		4			
29-Jun	1	DeHaven boat launch			4		2	
30-Jun	3	Lake View	3		4			
1-Jul	3	Lake View	2	1	5		1	
2-Jul	3	Lake View	1		2			
2-Jul	5	Woods on the Lake Shoreline	0.5					
2-Jul	6	Cliff View Shoreline	2					
6-Jul	6	Cliff View Shoreline	1	2	4			
6-Jul	4	Claytor Lake Estates	2					
7-Jul	7	Shadowland	4	2	6	2		
8-Jul	7	Shadowland	4	1	7			
9-Jul	7	Shadowland	4.5	2	10			
13-Jul	7	Shadowland	3.5		9			
14-Jul	8	Cabin Land	1.5		3			
15-Jul	9	Smith Hollow	2		10			
15-Jul	9	Smith Hollow	1		11			
15-Jul	10	Felts Hollow	1					
20-Jul	10	Felts Hollow	0.75					
20-Jul	11	Hidden Valley	1.25		13			
21-Jul	11	Hidden Valley	5		3			
22-Jul	11	Hidden Valley	2		9			
23-Jul	11	Hidden Valley	2		6			
27-Jul	11	Hidden Valley	1	1	6			
27-Jul	12	State Park Shoreline (Hidden Valley to State Park Cabins)	1					
29-Jul	12	State Park Shoreline (Hidden Valley to State Park Cabins)	6	1	8			
30-Jul	12	State Park Shoreline (Hidden Valley to State Park Cabins)	3		12			
3-Aug	12	State Park Shoreline (Hidden Valley to State Park Cabins)	5		19		1	1 Propane Tank
4-Aug	12	State Park Shoreline (Hidden Valley to State Park Cabins)	3		18			

10-Aug	12	State Park Shoreline (Hidden Valley to State Park Cabins)	6	3	16.5			
11-Aug	12	State Park Shoreline (Hidden Valley to State Park Cabins)	3		6			
12-Aug	12	State Park Shoreline (Hidden Valley to State Park Cabins)	3	1	14			
13-Aug	13	State Park Cabin Dock Areas	2	1	10			
17-Aug	14	State Park-Cove between Cabins	4	2	10			
18-Aug	14	State Park-Cove between Cabins	1.5					
19-Aug	15	State Park-Coves at Picnic Areas	1	1	6			
19-Aug	16	Dublin Hollow	0.25					
19-Aug	17	Cove/shoreline at AEP Cabin	0.75		6			
20-Aug	17	Cove/shoreline at AEP Cabin	0.75		6			
20-Aug	18	Island at Merry Point	1.25					
24-Aug	19	Ridpath Hollow	1.5				2	
24-Aug	20	Cook Hollow	1				1	
24-Aug	21	Dam Cove	0.5					
25-Aug	19	Ridpath Hollow	0.5		2			
25-Aug	20	Cook Hollow	1		2			
26-Aug	20	Cook Hollow	0.5		3			
26-Aug	22	Shoreline- Texas Hollow to Byrd Lodge cove	2	2	3	2		
27-Aug	23	Spooky Hollow	1.5	1	3			
27-Aug	24	Claytor Cove	0.5		1			
31-Aug	25	Cove at Bird Lodge	0.5					
31-Aug	26	Cove downstream of Bird Lodge cove	1.5	1	28			
1-Sep	22	Shoreline- Texas Hollow to Byrd Lodge	3		2			
1-Sep	26	Cove downstream of Bird Lodge cove	2	2	2			
2-Sep	27	Cove upstream of Big Hole Hollow	1		6			
3-Sep	27	Cove upstream of Big Hole Hollow	1		6			
8-Sep	28	Cove downstream of Buzzard Roost Hollow	2		18			
9-Sep	28	Cove downstream of Buzzard Roost Hollow	1		2			
16-Sep	5	Woods on the Lake Shoreline	1.5		6			
17-Sep	5	Woods on the Lake Shoreline	3		3			
6-Oct	29	Buzzard Roost Hollow	1.75	1				
6-Oct	30	Shoreline below Coast Guard Building	0.75					
7-Oct	31	Loman's Ferry Bridge Area	5.5	5	2			1 tractor tire
12-Oct	32	Shoreline - Hiltons to Allison Dr. Cove	5	3	3		1	
13-Oct	32	Shoreline - Hiltons to Allison Dr. Cove	4.5					
14-Oct	33	Allison Drive Cove	3				1	
15-Oct	34	Shoreline - Allison Drive Cove to Nunns Hollow	3.25	1	5			
21-Oct	33	Allison Drive Cove	1					
21-Oct	34	Shoreline - Allison Drive Cove to Nunns Hollow	1.5					
22-Oct	34	Shoreline - Allison Drive Cove to Nunns Hollow	4		7			
27-Oct	34	Shoreline - Allison Drive Cove to Nunns Hollow	5		2			
29-Oct	34	Shoreline - Allison Drive Cove to Nunns Hollow	5	1	11			
2-Nov	34	Shoreline - Allison Drive Cove to Nunns Hollow	5	2				
4-Nov	1	Dehaven Park	1		7			
5-Nov	1	Dehaven Park	3					
10-Nov	1	Dehaven Park	1					
		TOTALS	232.75	42	452.5	6	13	



