



# 2018 Clean Up Report



**The Friends of Claytor Lake, Inc.**

**January 1, 2019**



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# 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:

**2017:** 224.75 Roll-Offs, 218 Bags of Trash, 28 Wheel/Tires, 2 55-Gallon Barrels, 3 Docks, 1 Ramp, 4 Trees, 1 Fishing Boat.

**2016:** 191.75 Roll-Offs, 410 Bags of Trash, 48 Wheel/Tires, 11 55-Gallon Barrels, 14 Docks, 1 Pipe, 1 Picnic Table, 1 Metal Steps.

**2015:** 232.75 Roll-Offs, 452.5 Bags of Trash, 42 Wheel/Tires, 6 55 Gallon Barrels, 13 Docks, 1 Freezer, 1 Water Heater, 1 Propane Tank, 1 Tractor Tire

**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.

# 2018 Clean Up Work:

FOCL has had numerous extensive equipment failures and changes this year. The problem is that if one piece of equipment goes down, we are at a standstill without back up. Our goal is to have a backup for all equipment and to be able to run two crews when there are high flows and major debris events. The good news is that after redesigning rebuilding our conveyor last year, it has had no problems or major repairs this year.



We have worked with Valley Welding to commission, design, and build a new barge for clean up that can double as a dredge barge if needed. This was much cheaper than buying a prebuilt used one. We have worked with Pulaski County to acquire another surplus push boat which needed new engines and these are in the process of being installed for next year. This boat has jet drives so will be ideal for working above the bridge in shallow water.

The current 1984 vintage push boat has had both transmissions rebuilt and replaced and water coolers added, the water pump and all hoses replaced. During the off season this winter, the prop shafts and stuffing boxes will be replaced and props refurbished. The wiring to the console panel is also scheduled to be replaced.

FOCL has requested from Pulaski County a second roll off truck which will be surplused this winter. Our current truck is the oldest in the County fleet and has had repeated problems and repairs. This brings us to a halt if we can't unload debris. Again, having a second truck as a back up enables us to keep working and when both are working be more efficient in our work.

Lastly our bull dozer used at big hole is scheduled to replace the hydraulic cylinder and other repairs of about \$4000+labor during the winter season.

We have also regraded and added \$5000 of stone to the road into Big Hole Hollow as it became impassable with the excessive rains and wet season this year. Pulaski County bush hogged the grass so that we could complete our burn of woody debris, scheduled to be completed by the end of this week January 16<sup>th</sup>.

These are just the major repairs and changes along with routine maintenance.

## 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 2017 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.

## 2018 Clean Up Operations:

2017 showed to be good collection year as the lake benefited from our efforts with less debris. FOCL did experience some issues with crew turnover having some obtain other jobs. FOCL feels that, moving forward, pay increases are needed to hire quality crew and keep retention at a higher level. This allowed 2017 to be a successful year with moderate increases in debris.

Roll Off Loads of Woody Debris	290.5
Bags of Trash	229
Tires/Wheels	59
55 Gallon Barrels	10
Docks	14
Boats	2
Camper	1
Ramp	1
Playhouse	1
Gas Grill	1



## 2019 Estimates:

Because of the current escalation in high flow events in 2018 and the debris that has followed, FOCL is currently putting a plan together to ramp up Clean Up efforts on Claytor Lake up to two separate clean up crews. This would require more equipment to accomplish and would also benefit the program by being above and below Lowman's Ferry Bridge at the same time. Last year's purchase of a smaller push boat is still being worked on by Pulaski County with the hopes it will be ready for service this spring. With the aging main push boat consistently being in a state of repair for much of 2018, FOCL is putting together plans for a replacement main push boat for the main barges and excavator.

With generous donations from Appalachian Power and Pulaski County, The Friends of Claytor Lake have more smaller scale equipment which will help us reach smaller more narrow areas around the lake for debris clean up. It will also allow less down time for our crew during the unloading process of roll-off containers.

FOCL will also, again, try to expand the crew from its normal 5-6 man team to a possible 8 or more which could operate independently of each other to cover more area and increase quick debris removal. FOCL is also increasing wages. We feel that increased wages for our crew will lead to less turnover and more incentives for retention of current crew members and additional

personnel. FOCL is also training a second crew member for their CDL in order to be more efficient with operations.

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.

### 2018 Clean Up Operation Costs:

	2018	2019	Difference	%						
Requested	\$ 185,000.00	\$ 185,000.00								
Received	\$ 185,000.00									
<b>Clean Up</b>										
Insurance	\$ 1,675.00	\$ 1,675.00	\$ -	0%						
Equipment	\$ 23,000.00	\$ 23,000.00	\$ -	0%						
Parts	\$ 15,000.00	\$ 15,000.00	\$ -	0%						
Payroll	\$ 64,215.59	\$ 83,980.00	\$ 19,764.41	31%						
FICA	\$ 5,017.52	\$ 6,550.44	\$ 1,532.92	31%						
Supplies	\$ 4,000.00	\$ 4,000.00	\$ -	0%						
Reporting and Applications	\$ 2,400.00	\$ 2,500.00	\$ 100.00	4%						
Repairs and Labor	\$ 29,000.00	\$ 30,000.00	\$ 1,000.00	3%						
Gas	\$ 10,591.00	\$ 10,600.00	\$ 9.00	0%						
Clean Up Other	\$ 1,700.00	\$ 2,000.00	\$ 300.00	18%						
Total Clean Up	\$ 156,599.11	\$ 179,305.44	\$ 22,706.33	14%						
<b>Other Programs</b>										
Administrative Support	\$ 10,000.00	\$ 10,000.00	\$ -	0%						
Events Sponsorship	\$ 1,000.00	\$ 1,000.00	\$ -	0%						
Clean Up Day	\$ 1,000.00	\$ 500.00	\$ (500.00)	-50%						
Water quality	\$ 13,500.00	\$ 13,500.00	\$ -	0%						
Mussel Salvage 2017	\$ 952.54	\$ 1,000.00	\$ 47.46	5%						
Sonar Subscription	\$ 3,000.00	\$ 3,000.00	\$ -							
Total other programs	\$ 29,452.54	\$ 29,000.00	\$ (452.54)	-2%						
<b>Total</b>	<b>\$ 186,051.65</b>	<b>\$ 208,305.44</b>	<b>\$ 22,253.79</b>	<b>12%</b>						

  

	hours rate	weeks	number crew	Total
Payroll	40	16	35	1 \$ 22,400.00
Foreman	20	13	35	1 \$ 9,100.00
Asst Foreman	40	11	32	1 \$ 14,080.00
Returning Crew	40	10	32	3 \$ 38,400.00
Crew				Total Wages \$ 83,980.00
				FICA \$ 6,550.44

2018 FOCL Claytor Lake Debris Removal

Date	Location Number	Location Description	Roll off Loads	Tires / Tires	Trash Bags	Barrels	Docks	Miscellaneous
25-Apr	1	Dehaven Park Inlet/Ramp	1					
30-Apr	2	Upper Peak Creek	3		3			
2-May	3	Ridpath Hollow	2	2				
2-May	3	Ridpath Hollow	1	1	2	1		
7-May	4	Cook Hollow	0.75	2	3			
7-May	5	Peak Creek Entrance	1.25				3	
8-May	6	Cove at Shopeze	3					
9-May	7	Shoreline - Metz Cove to Allison Dr. Cove	2			1		
10-May	7	Shoreline - Metz Cove to Allison Dr. Cove	6		3		1	
14-May	8	Little Wytheville	2	1	1			
15-May	8	Little Wytheville	3		2			
17-May	8	Little Wytheville	4					
22-May	8	Little Wytheville	4					
23-May	8	Little Wytheville	2		1			
24-May	9	Shoreline Below Little Wytheville	2	1	1			
25-May	9	Shoreline Below Little Wytheville	2					
30-May	9	Shoreline Below Little Wytheville	2	1	2			
31-May	9	Shoreline Below Little Wytheville	4		2			
4-Jun	1	Dehaven Park Inlet/Ramp	1		3			
5-Jun	10	Dehaven Park Shoreline	4		3	1		
6-Jun	11	Claytor Lake Estates	3	1	4			
7-Jun	11	Claytor Lake Estates	6		2		1	
26-Jun	1	Dehaven Park Inlet/Ramp	1					
27-Jun	12	Shoreline - Allison Dr. Cove to McCarthy Rd Cove	2		4			
27-Jun	13	Shoreline across from Shadowland					1	
28-Jun	12	Shoreline - Allison Dr. Cove to McCarthy Rd Cove	4					
28-Jun	14	Shoreline - Woods on the Lake	1		2			
2-Jul	15	Shoreline: McCarthy Rd. Cove to Clapboard Hollow	1	4	5			
3-Jul	15	Shoreline: McCarthy Rd. Cove to Clapboard Hollow	2		2			
5-Jul	11	Claytor Lake Estates			3			
9-Jul	15	Shoreline: McCarthy Rd. Cove to Clapboard Hollow	5					
10-Jul	11	Claytor Lake Estates	3.5		5			
11-Jul	15	Shoreline: McCarthy Rd. Cove to Clapboard Hollow	2	1				
12-Jul	15	Shoreline: McCarthy Rd. Cove to Clapboard Hollow	1.25					
12-Jul	16	Cabin Land	0.75		1			
16-Jul	16	Cabin Land	2		4			
17-Jul	16	Cabin Land	4	1	5			
18-Jul	17	Shadowland	2		4	2		
19-Jul	17	Shadowland	4		4		1	Walkway
23-Jul	17	Shadowland	2	1	4			
24-Jul	17	Shadowland	3	1	5			
25-Jul	18	Shoreline: Shadowland to DeHaven Park	4		6			
26-Jul	1	Dehaven Park Inlet/Ramp	2		3			
30-Jul	1	Dehaven Park Inlet/Ramp	0.5		2			
30-Jul	18	Shoreline: Shadowland to DeHaven Park	0.5					
31-Jul	18	Shoreline: Shadowland to DeHaven Park	2		3			
1-Aug	18	Shoreline: Shadowland to DeHaven Park	2.5		2			
6-Aug	19	Shoreline: Cliffs to Felts Hollow	3		2			
6-Aug	18	Shoreline: Shadowland to DeHaven Park	1					
6-Aug	20	State Park Coves Above Swim Area			2			
7-Aug	20	State Park Coves Above Swim Area	3					
7-Aug	21	Big Hole Hollow					1	
8-Aug	20	State Park Coves Above Swim Area	2					
9-Aug	20	State Park Coves Above Swim Area	2					
9-Aug	22	Big Hole Hollow to Buzzard Roost Hollow	4.5					
13-Aug	19	Shoreline: Cliffs to Felts Hollow	1	1	8			
14-Aug	19	Shoreline: Cliffs to Felts Hollow	6	1	5			
15-Aug	19	Shoreline: Cliffs to Felts Hollow	3	2	10			
16-Aug	23	Felts Hollow	5					
16-Aug	24	Smith Hollow	1.5	1	3			
20-Aug	24	Smith Hollow	2.5		7			
21-Aug	24	Smith Hollow	4		6			
22-Aug	25	Hidden Valley	3	1	1			
23-Aug	25	Hidden Valley	3	1	12		1	
27-Aug	25	Hidden Valley	1	1	13			
28-Aug	25	Hidden Valley	3	2	14			
29-Aug	26	Shoreline: Hidden Valley to State Park Cabins	4	2	24	2		
30-Aug	26	Shoreline Hidden Valley to State Park Cabins	4					

2018 FOCL Claytor Lake Debris Removal

Date	Location Number	Location Description	Roll off Loads	Tires / Tires	Trash Bags	Barrels	Docks	Miscellaneous
4-Sep	26	Shoreline Hidden Valley to State Park Cabins	3					
5-Sep	22	Big Hole Hollow to Buzzard Roost Hollow	5	1	6		1	
6-Sep	22	Big Hole Hollow to Buzzard Roost Hollow	1		3			
6-Sep	27	Buzzard Roost Hollow	1					
10-Sep	27	Buzzard Roost Hollow	3					
18-Sep	28	Main Lake: Below Lowmans Ferry Bridge			2		1	1 Camper; 1 Boat
19-Sep	28	Main Lake: Below Lowmans Ferry Bridge	6					
19-Sep	16	Cabin Land	6					
20-Sep	16	Cabin Land	7	2	5		1	
21-Sep	16	Cabin Land	1	2				
24-Sep	16	Cabin Land	2					
25-Sep	16	Cabin Land	5					
26-Sep	29	Main Lake: Above Clapboard Hollow	3	2	7			1 propane tank; 1 grill tank
27-Sep	29	Main Lake: Above Clapboard Hollow	3					
28-Sep	29	Main Lake: Above Clapboard Hollow	6					
1-Oct	30	Clapboard Hollow	1	8	3			
2-Oct	30	Clapboard Hollow	5					
3-Oct	30	Clapboard Hollow	5					
4-Oct	30	Clapboard Hollow	5			1		
5-Oct	30	Clapboard Hollow	5					
8-Oct	16	Cabin Land	1.5					
8-Oct	17	Shadowland	1.5					
9-Oct	16	Cabin Land	3			1		
10-Oct	30	Clapboard Hollow	3					
10-Oct	16	Cabin Land	1					
11-Oct	16	Cabin Land	1					
13-Oct	31	Shadowland	4				1	
16-Oct	31	Shadowland	2	2		1	1	
19-Oct	31	Shadowland	4					
19-Oct	10	Dehaven Park Shoreline	1					
22-Oct	32	Twin Hollow	2	2				1 boat
23-Oct	32	Twin Hollow	3					
23-Oct	15	Shoreline: McCarthy Rd. Cove to Clapboard Hollow		2				1 playhouse
24-Oct	15	Shoreline: McCarthy Rd. Cove to Clapboard Hollow	5					
24-Oct	1	Dehaven Park Inlet/Ramp	2					
25-Oct	12	Shoreline - Allison Dr Cove to McCarthy Rd Cove	1	1				
29-Oct	12	Shoreline - Allison Dr Cove to McCarthy Rd Cove	4					
30-Oct	17	Shadowland	2	4				
31-Oct	17	Shadowland	3					
1-Nov	17	Shadowland	1	4				1 dock
2-Nov	17	Shadowland	4					
2-Nov	1	Dehaven Park Inlet/Ramp	1					
								1 camper, 2 boat, 1 propane tank, 1 grill tank
		TOTALS	290.5	59	229	10	14	1 walkway, 1 playhouse, 1 dock