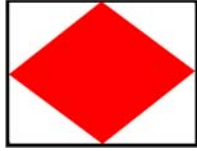


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## 2014 Clean Up Report



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

**January 31, 2015**



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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 works in the water with chain saws clearing woody debris and trash from the shore. The majority of debris is harvested by an excavator operating on barges. Smaller debris is pushed onto a conveyor which loads 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:

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.

# 2014 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 allowed the crew to get the barge and excavator into shallower waters for clean up and allowing use of the conveyor in other areas and also keeping the crew out of the water more cutting down on potential accidents.

Pulaski County returned the rented excavator that our clean up crew had been using to purchase a smaller more agile excavator making operation on the barge easier and safer.



Repairs were made to the FOCL Boat as well as maintenance on the conveyor and smaller FOCL boats and trailers. Initially most of the time and hours were put in from our two main crew members in cleaning up the debris field at Big Hole Hollow and finishing burning remaining piles to clear the site for 2014 loads. The clean up operation began running at full capacity on May 12, 2014 which also included one trip above Lowman’s Ferry Bridge to remove larger debris that had been deemed a significant risk to navigation.



## 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 2013 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, SOVA Crane Company donated a crane to unload the barges. 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.

## 2014 Clean Up Day:

The 2014 All Lake Clean Up Day on Claytor Lake got kicked off early as people from all over Claytor Lake got together to help rid our beautiful lake of trash from its shoreline and coves. 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, The Waterway Cafe, and The Claytor Lake State Park, the All Lake Clean Up Day hauled in close to 70 bags of trash, 6 tires, 1 flashboard, 5 large pieces of styrofoam, plastic molding, trash cans, chairs, and even a table!

Fueled by FOCL Board Members, Staff and Crew Laura Walters, Jeff Caldwell, Cheri Strenz, Jackson Beamer, Larry Moore, Ted Bostic, Darryl Sarver, Larry Killough, Jeff Arnold, Larry Bandolin, Mike Hoffman, Buddy Johnston, Laura Bullard, Bill Cunningham, Jeff Caldwell, Jerry Dean, and Dale Gravely and expanding into neighborhoods all over Claytor Lake, our 2014 Clean Up Day was a success and vital to keeping our lake clean. Ronnie Nichols from Pulaski County was instrumental in providing FOCL with dumpsters located all over Claytor Lake giving anyone helping an easy access to unload their bags and trash.

Other notable volunteers were Janet Johnston, Ann Bullard, Steve Rapp, Jamie Riggins of Virginia Shoreline, and Jerry & Sherry Vaughn.

### Neighborhood Captains:

Little Wytheville – Amy Hunter

Blackberry Lane – Jim Kelly

Lake Ridge & Waterfront Farms – Tom Kulis

Bullard Farm – Laura Bullard

Cecil's Chapel – Larry Bandolin

Clapboard Hollow – Donna Buck

Cabinland & Shadowlands – Virginia Ash

Lakeview – Larry Moore

Claytor lake Estates – Jackson Beamer

Woods-on-the-Lake, Felts Hollow, & Smith Hollow – Cheri Strenz

The Cliffs & Redwood – Judy Nelson

Hidden Valley – Fran Baldwin

Texas Hollow – Sara Metcalfe

Twin Coves – Stu Vaught and Chuck Long

Merry Point – John Johnson and Carolee Bondurant

Lakeway Heights – Gary & Jeanie Jones

Dublin Hollow – Laura Walters and Tiki Racing Jet Ski Club

Roseberry Hollow – Ryan Jones and Steve Ball

Dunkards Bottom – Darryl Sarver

Lakeland – Bill Cunningham

Danny & Lynn Morris - Waterway Cafe

Chris Doss for all his help at the Claytor Lake State Park

Ronnie Nichols for all his work with Pulaski County and donating the dumpsters for our event.

Harold Chrisley for allowing use of the Shop-eez parking lot at Lowman's Ferry Bridge

## 2014 Clean Up Operations:

2014 showed to be another record breaking year as the crew, more familiar with the new equipment, 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 2014 to collect a considerable amount above previous years.

Roll Off Loads of Woody Debris	304.5
Bags of Trash	637
Tires/Wheels	179
55 Gallon Barrels	24
Docks	35.5
Freezers	1
Water Heaters	1
Propane Tanks	2
Waterski Jump	1
Metal/Aluminum Boat House	1
Automotive Gas Tank	1
Set of Steps	1



## Native Vegetation Project:



July 1, 2014: The Friends of Claytor Lake, alongside AEP, VDGIF, The Bass Federation, and the Claytor Lake State Park started our Native Vegetation Project. This project reintroduces native vegetation of water celery and water willow back to the lake that was choked off by the overwhelming growth of Hydrilla over the past few years. With the Hydrilla now at what appears to be a manageable level, it was the perfect time to plant vegetation that not only has a better chance of growth but is also less susceptible to the Hydrilla's hostile takeover.

With some helpful advice and tips from Army Corp. of Engineers Lynde Dodd, FOCL purchased and brought in 628 water willow and 148 water celery plants from North Carolina along with specialty cages from New Jersey in order to complete the project and allow the vegetation to flourish while providing the shoreline of Claytor Lake to not only become more stabilized but also serve as needed aquatic habitat.

Water-willow is a perennial that is common along stream and lake margins. Water-willow grows to 3 feet tall and often forms dense colonies that help stabilize shorelines. The stems do not usually branch and have prominent whitish lines. The leaves are opposite, long and narrowly tapered (up to inches 6 long and 1/2 inch wide) with smooth margins and a distinctive whitish midvein. The leaves look very much like those of the willow tree.



Water-willow flowers from May through October. The flowers are on long stems originating from the base of the leaves. Flowers are 5-petaled orchid-like (3/4 inch diameter), white with purple/violet streaks on the lower petals. Water-willow can spread from seeds and forms extensive rhizomes by which it forms colonies and spreads rapidly.

Submerged portions of all aquatic plants provide habitats for many micro and macro invertebrates. These invertebrates in turn are used as food by fish and other wildlife species

(e.g. amphibians, reptiles, ducks, etc.). After aquatic plants die, their decomposition by bacteria and fungi provides food (called “detritus”) for many aquatic invertebrates. Deer will browse the leaves while beaver, muskrat, and nutria will consume the rhizomes of water-willow.

Variegated Water Celery is a colorful, low spreading plant typically planted in water gardens partially submerged at the margins. The colorful, serrated leaflets of the Variegated Water Celery pops with beautiful pink tips! About mid summer, tiny white flowers in umbels bloom. Also known as the Flamingo Plant or Java Dropwort, it’s a popular favorite for Koi ponds since it makes a nutritious snack for hungry mouths. Some gardeners recommend rotating two planters – keeping one in the pond for koi and another kept away from koi and allowed to grow back – to maintain a constant supply on hand.

Though it is a lovely ornamental plant, the Variegated Water Celery is fast growing so take care in placement and expect plenty of spread. When placed properly, the Variegated Water Celery makes an excellent ground cover and a great choice for bog filters. Plants will grow fastest in wet soil under direct sun.

Close to 30 volunteers from The Friends of Claytor Lake, American Electric Power, Virginia Department of Game and Inland Fisheries, The Bass Federation, and the Claytor Lake State Park were on hand for what turned out to be an entire day of planting.



## 2014 Fish Habitat Project:

Again this year Appalachian Power/American Electric Power, Pulaski County, FOCL, VDGIF, DEQ, and other organizations were able to place more fish habitat in Claytor Lake. Utilizing the loading area of Harry DeHaven park, several “spider block” type fish habitats were placed on the bottom of areas of Clayton Lake around Harry DeHaven and into Peak Creek providing more areas to successfully provide habitat for various species of fish in Clayton Lake.

## 2014 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.

### 2014 Clean Up Expense Breakdown

CATEGORY	EXPENDITURES	TOTAL
Repairs	\$ 22,202.87	
Parts	\$ 25,557.49	
Gas	\$ 11,890.23	
Payroll	\$ 51,411.14	
Equipment	\$ 42,299.69	
Insurance	\$ 6,331.54	
Executive Dir. Pay	\$ 10,000.00	
Water Quality	\$ 10,174.54	
	<b>Total Clean Up: \$</b>	<b>179,867.50</b>

### 2014 Clean Up Hours

MONTHS	HOURS
March	117.50
April	95.00
May	396.00
June	886.25
July	1,178.00
August	823.25
September	854.50
October	684.25
November	447.25
December	123.75
<b>Total:</b>	<b>5,003.75</b>

\* Pulaski County Contribution: \$30,000 (July 1-June 31)

\* AEP Contribution: \$172,814

\*\* Remaining County Funds for 1/1/15 to 6/31/15: \$11,709.74

## 2015 Estimates:

Clean up costs are projected to increase due to fuel, equipment maintenance, and having to add health insurance to employees due to the Affordable Care Act requirements. FOCL can cover increases in administrative support thus no increase from last year. Water Quality has increased due to a change in vendor and having to purchase meters to enable our volunteers to do all of the testing including the Dissolved Oxygen and fecal coliform. Program support includes activities such as sonar mapping and software, 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 you and AEP with these endeavors in the past and look forward to continuing to work for the good of Claytor in the coming year.

Clean Up Costs	Administration Support	Water Quality	Program Support
\$150000.00	\$10000.00	\$13000.00	\$7000.00
		<b>Total:</b>	<b>\$180,000.00</b>



Date	Location Number	Location Description	Roll off Loads	Tires / Tires	Trash Bags	Barrels	Docks	Miscellaneous
12-May	1	Cove and Shoreline across form Shadowland	3.25					
13-May	1	Cove and Shoreline across form Shadowland	3	2				
16-May	1	Cove and Shoreline across form Shadowland	1					
19-May	1	Cove and Shoreline across form Shadowland	4	2	13	1		
20-May	1	Cove and Shoreline across form Shadowland	4	2	9			
21-May	1	Cove and Shoreline across form Shadowland		2	12	1	1	
22-May	2	Lakeview Shoreline and coves	2					
22-May	3	Crwfish hollow	2	1	5		1	1 freezer, 1 water tank
27-May	4	Twin Hollow	4.5	2	14		2	
28-May	4	Twin Hollow	5	1	14			
29-May	4	Twin Hollow	3	9	7			
30-May	4	Twin Hollow	2.5					
2-Jun	4	Twin Hollow	3.5	5	1			
3-Jun	4	Twin Hollow	1	3	62			
4-Jun	4	Twin Hollow	1	5	1			
5-Jun	4	Twin Hollow	3					
9-Jun	4	Twin Hollow	3	2	5		2	
10-Jun	4	Twin Hollow	4	3	7			
11-Jun	4	Twin Hollow	1	1	9			
11-Jun	5	Shadowland	1					
12-Jun	5	Shadowland	1		3			
16-Jun	5	Shadowland	1	1	1		1	
16-Jun	6	Shoreline-Nunns Hollow to Allison Dr. cove	1					
17-Jun	7	Shoreline- Ferncliff Rd. area	1	2	5			
17-Jun	6	Shoreline-Nunns Hollow to Allison Dr. cove	3					
18-Jun	6	Shoreline-Nunns Hollow to Allison Dr. cove	2					
18-Jun	8	Cove- Shopeez/ Farmer Ln.	1	1				
23-Jun	6	Shoreline-Nunns Hollow to Allison Dr. cove	1					
24-Jun	6	Shoreline-Nunns Hollow to Allison Dr. cove	1	1	11	3		
25-Jun	6	Shoreline-Nunns Hollow to Allison Dr. cove	1					
26-Jun	6	Shoreline-Nunns Hollow to Allison Dr. cove	1	1				
26-Jun	9	Lizard Lodge Hollow & shoreline	3					
30-Jun	10	State Park- coves below marina	1.5	1				
1-Jul	11	State Park- cabins up to Hidden Valley	1.5	1				
2-Jul	11	State Park- cabins up to Hidden Valley	2	5	4			
3-Jul	11	State Park- cabins up to Hidden Valley	6	4			2	
7-Jul	12	State Park coves- cabins to swim area	1	2	1		3	
8-Jul	13	Cook Hollow	1					
8-Jul	14	Shoreline- AEP cabin & Lake Way Hgts.	0.5	1	1			
8-Jul	11	State Park- cabins up to Hidden Valley	0.5					
9-Jul	11	State Park- cabins up to Hidden Valley	4.5	2				
10-Jul	11	State Park- cabins up to Hidden Valley	4	4	4			
14-Jul	11	State Park- cabins up to Hidden Valley	4		1		2	
15-Jul	11	State Park- cabins up to Hidden Valley	2.5		2			
16-Jul	11	State Park- cabins up to Hidden Valley	4	2	20			
17-Jul	11	State Park- cabins up to Hidden Valley	3	2	1			
21-Jul	15	Hidden Valley	3		8			
22-Jul	15	Hidden Valley	3		8			
23-Jul	16	Smith & Felts Hollows	1					
23-Jul	17	Shoreline- Hidden Valley to Smith Hollow	3					
24-Jan	16	Smith & Felts Hollows	1		8			
24-Jul	18	Shoreline- Big Hole to Buzzard Roost Hollows	1		8			
28-Jul	18	Shoreline- Big Hole to Buzzard Roost Hollows	2					
29-Jul	18	Shoreline- Big Hole to Buzzard Roost Hollows	0.5		1			
29-Jul	19	Shoreline- Felts to Newbern Hollows	2.5	1	2	1		
30-Jul	19	Shoreline- Felts to Newbern Hollows	2	1	1	1	2	
31-Jul	19	Shoreline- Felts to Newbern Hollows	4	1	4	1		
1-Aug	19	Shoreline- Felts to Newbern Hollows	4		1			
4-Aug	20	Buzzard Roost Hollow	3		4		1	
5-Aug	19	Shoreline- Felts to Newbern Hollows	3.5	4	4			
6-Aug	19	Shoreline- Felts to Newbern Hollows	2		2			

7-Aug	22	Claytor Lake Estates shoreline	2		5			
12-Aug	22	Claytor Lake Estates shoreline	2	2	13			
13-Aug	22	Claytor Lake Estates shoreline	1	2	6			
13-Aug	21	DeHaven Park cove & shoreline	1					
14-Aug	21	DeHaven Park cove & shoreline	1.5		4			
14-Aug	2	Lakeview Shoreline and coves	0.5		1			
15-Aug	2	Lakeview Shoreline and coves	2		9			
18-Aug	23	Peak Creek- Conrad's to Evergreen Dr. area			9			
19-Aug	23	Peak Creek- Conrad's to Evergreen Dr. area	4		5			
20-Aug	23	Peak Creek- Conrad's to Evergreen Dr. area	1	3	16			
21-Aug	23	Peak Creek- Conrad's to Evergreen Dr. area	2	5	12			
25-Aug	23	Peak Creek- Conrad's to Evergreen Dr. area	2	13	8			
26-Aug	23	Peak Creek- Conrad's to Evergreen Dr. area	2	10	17			1- propane tank, 1- auto gas tank
27-Aug	23	Peak Creek- Conrad's to Evergreen Dr. area	1.5		9			
28-Aug	23	Peak Creek- Conrad's to Evergreen Dr. area	2	10	20			1- propane tank
1-Sep	23	Peak Creek- Conrad's to Evergreen Dr. area	1	3		10		5 1- ski jump ramp
2-Sep	23	Peak Creek- Conrad's to Evergreen Dr. area	3	13				1 1- metal boat house
3-Sep	23	Peak Creek- Conrad's to Evergreen Dr. area	3					
4-Sep	23	Peak Creek- Conrad's to Evergreen Dr. area	2	12	2			
8-Sep	24	Peak Creek- Conrad's to Evergreen Dr. to Skewes'	2.5	2	5			
9-Sep	31	Claytor Lake Cabin Land- shoreline	0.5					
9-Sep	25	Peak Creek mouth/Baptist Church Hollow	1.5	4	20			
10-Sep	25	Peak Creek mouth/Baptist Church Hollow	4	9	13			1
11-Sep	25	Peak Creek mouth/Baptist Church Hollow	2	4	12			1
15-Sep	25	Peak Creek mouth/Baptist Church Hollow	2	1				
15-Sep	26	Shoreline- Allison Dr.cove to Hylton cove	1		2			
16-Sep	26	Shoreline- Allison Dr.cove to Hylton cove	1.5		1			
17-Sep	26	Shoreline- Allison Dr.cove to Hylton cove	2.5		18			
18-Sep	26	Shoreline- Allison Dr.cove to Hylton cove	1.5	1	2	1		
18-Sep	27	Cove at Allison Dr.	0.5					
22-Sep	26	Shoreline- Allison Dr.cove to Hylton cove	1					
22-Sep	28	McCarthy cove to Clapboard Hollow	1		3			
22-Sep	21	DeHaven Park cove & shoreline	0.5					
23-Sep	28	McCarthy cove to Clapboard Hollow	1.25		9			
23-Sep	29	Shoreline- Beamer Hollow RD. to Lake Wood Esta	0.75					1
24-Sep	9	Lizard Lodge Hollow & shoreline	2		2			
25-Sep	30	Cove & shoreline across from C. L. Cabin Land	4	2	7			
29-Sep	30	Cove & shoreline across from C. L. Cabin Land	4		12			
30-Sep	30	Cove & shoreline across from C. L. Cabin Land	3		11			
1-Oct	30	Cove & shoreline across from C. L. Cabin Land	3		17			
2-Oct	30	Cove & shoreline across from C. L. Cabin Land	1.5		6			
6-Oct	30	Cove & shoreline across from C. L. Cabin Land	0.75					
6-Oct	1	Cove & shoreline across from Shadowland	2.5					
6-Oct	3	Crawfish Hollow	0.25					1
7-Oct	1	Cove & shoreline across from Shadowland	1	2	16			
8-Oct	4	Twin Hollow	3	1	4			2
9-Oct	32	Newbern Hollow	3	2	6			
13-Oct	32	Newbern Hollow	1		4			
14-Oct	33	Spooky Hollow	4					
16-Oct	33	Spooky Hollow	3	2	10			
21-Oct	6	Shoreline-Nunns Hollow to Allison Dr. cove	1					
21-Oct	27	Cove at Allison Dr.	1					
22-Oct	27	Cove at Allison Dr.	3					
23-Oct	27	Cove at Allison Dr.	3.5					
23-Oct	6	Shoreline-Nunns Hollow to Allison Dr. cove	1					
24-Oct	6	Shoreline-Nunns Hollow to Allison Dr. cove	2					
27-Oct	6	Shoreline-Nunns Hollow to Allison Dr. cove		1				
28-Oct	26	Shoreline- Allison Dr.cove to Hylton cove	4	1	3			
28-Oct	6	Shoreline-Nunns Hollow to Allison Dr. cove	1					
29-Oct	26	Shoreline- Allison Dr.cove to Hylton cove	3.5	2	3			
30-Oct	26	Shoreline- Allison Dr.cove to Hylton cove	3		4			
3-Nov	26	Shoreline- Allison Dr.cove to Hylton cove	2		2			
4-Nov	26	Shoreline- Allison Dr.cove to Hylton cove	2					

5-Nov	27	Cove at Allison Dr.	0.5				
5-Nov	6	Shoreline-Nunns Hollow to Allison Dr. cove	0.5				
6-Nov	6	Shoreline-Nunns Hollow to Allison Dr. cove	2				
6-Nov	27	Cove at Allison Dr.	1				
10-Nov	34	Big Hole Hollow	3	2		2.5	
11-Nov	34	Big Hole Hollow	2		5	2	
12-Nov	34	Big Hole Hollow	2.5	2		1	
13-Nov	34	Big Hole Hollow	0.25		4		
19-Nov	34	Big Hole Hollow	1				
			273.5	184	596	28	34.5

