



Name of the Fish Kill: **Gorgas Steam Plant June 16**

Expansion Number: **1.00** (use 1 if conducted a complete count)

Producer Price Index (PPI): **1.4530** (NOTE: **DO NOT CHANGE THIS VALUE!**)
 (Note: this reflects a 45.3% change in the PPI (all commodities) from 131.11 in 2002 to 190.5 thru Dec. 2015)

Name of river, creek, lake or pond:	Bankhead Reservoir
County where fish kill occurred (i.e. Jefferson):	Walker
Month of kill (i.e. February):	June
Day of kill (i.e. 25):	16
Year of kill (i.e. 2004):	2016

killed in Bankhead Reservoir, Walker County, on June 16, 2016.
 Inch group, number, weight, and monetary value of

Acres of lake affected:	26	Miles of stream:	0
Temperature of water:	83	Temp. air:	90
		Weather:	Clear. Heavy rain preceded

Comments: (Include: water analysis data; location of water, fish, and bottom samples; number of photographs taken; and names and addresses of investigators or persons interviewed):

Dissolved oxygen was 9.2 m/l upstream of the discharge canal 3.5 m/l in the canal, and 5 m/l downstream of the canal. There was an oily sheen approximately 200-300 yards long on the surface of the water downstream of the discharge canal. The water exiting the canal was more turbid than the water upstream of the canal.

FISH-KILL OR POLLUTION

Stream or lake:	Mulberry Fork of the Black Warrior River, Bankhead Reservoir		
County:	Walker		
Nearest Town:	Parrish		
Date Investigated:	June 16th 2016		
Specific location on body of water:	Immediately downstream of the Gorgas Discharge Canal		
County: Walker			
Duration of kill: From:	June 15th 2016	To:	June 16th 2015
Investigated by:	Christopher McKee		
Time, date and person reporting:	8:20 AM June 16th 2016 James Bramlett		
		Tel No:	205-648-0534
Date kill first noted:	June 16th 2016	Was area seined:	No
Game fish killed:	Number	Pounds	Value
Non-game fish killed:	Number	Pounds	Value
TOTAL:	Number	Pounds	Value
Condition of fish:	Decomposing		
Other animals affected:	None		

Cause of kill:
Kind of pollution:
Source of pollution:
Date report written:

Unknown	
Unknown	
Gorgas Steam Plan	
June 21 2016	Appearance of water: Oily Sheen and Turbid

<https://research.stlouisfed.org/fred2/data/PPIACO.txt>

AFS publication 30
used 2002 values

YR.	Annual PPI (12 month avg.)	PPI Change	% Change
2002	131.11		
2003	138.13	7.0	5.35
2004	146.68	8.6	6.19
2005	157.40	10.7	7.31
2006	164.75	7.3	4.67
2007	172.66	7.9	4.80
2008	189.59	16.9	9.81
2009	172.91	-16.7	-8.80
2010	184.73	11.8	6.84
2011	201.05	16.3	8.83
2012	202.20	1.1	0.57
2013	203.40	1.2	0.59
2014	205.30	1.9	0.93
2015	190.50	-14.8	-7.21
Total Change =		59.4	45.30

2015	
January	192.0
February	191.1
March	191.5
April	190.9
May	193.4
June	194.8
July	193.9
August	191.9
September	189.1
October	187.7
November	185.9
December	183.8
2015 average	190.5

Gorgas Steam Plant June 16

GIZZARD SHAD

Expansion Number:

Producer Price Index (PPI):

Inch Group	Sample Number	Expanded Number	Average Empirical Weight	Total Weight	Price per Fish (or lb.) (AFS pub. 30)	Corrected Price	Total Value
1			0.00075		0.12	0.17	
2			0.00350		0.12	0.17	
3			0.01100		0.12	0.17	
4			0.02300		0.12	0.17	
5			0.04700		0.12	0.17	
6	1	1	0.08400	0.08400	0.12	0.17	\$0.17
7			0.10000		0.12	0.17	
8	1	1	0.18000	0.18000	0.12	0.17	\$0.17
9			0.27000		0.12	0.17	
10			0.34000		0.12	0.17	
11			0.43000		0.12	0.17	
12			0.51000		0.12	0.17	
13			0.78000		0.12	0.17	
14			1.07000		0.12	0.17	
15			1.44000		0.12	0.17	
16			1.67000		0.12	0.17	
17			2.05000		0.12	0.17	
Total	2	2		0.26400			\$0.35

Table 2. Inch group, number, weight, and monetary value of GIZZARD SHAD killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
1			
2			
3			
4			
5			
6	1	0.08400	0.17
7			
8	1	0.18000	0.17
9			
10			
11			
12			
13			
14			
15			
16			
17			
Total	2	0.26400	\$0.35

Gorgas Steam Plant June 16

GIZZARD SHAD

Expansion Number:

Producer Price Index (PPI):

Inch Group	Sample Number	Expanded Number	Average Empirical Weight	Total Weight	Price per Fish (or lb.) <small>(AFS pub. 30)</small>	Corrected Price	Total Value
1			0.00075		0.41	0.60	
2			0.00350		0.41	0.60	
3			0.01100		0.41	0.60	
4			0.02300		0.41	0.60	
5			0.04700		0.41	0.60	
6	1	1	0.08400	0.08400	0.41	0.60	\$0.05
7			0.10000		0.41	0.60	
8	1	1	0.18000	0.18000	0.41	0.60	\$0.11
9			0.27000		0.41	0.60	
10			0.34000		0.41	0.60	
11			0.43000		0.41	0.60	
12			0.51000		0.41	0.60	
13			0.78000		0.41	0.60	
14			1.07000		0.41	0.60	
15			1.44000		0.41	0.60	
16			1.67000		0.41	0.60	
17			2.05000		0.41	0.60	
Total	2	2		0.26400			\$0.16

Table 2. Inch group, number, weight, and monetary value of
GIZZARD SHAD
killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
6	1	0.08400	0.05
7			
8	1	0.18000	0.11
Total	2	0.26400	\$0.16

Gorgas Steam Plant June 16

SKIPJACK HERRING

Expansion Number:

Producer Price Index (PPI):

Inch Group	Sample Number	Expanded Number	Average Empirical Weight	Total Weight	Price per Fish (or <i>lb.</i>) <small>(AFS pub. 30)</small>	Corrected Price	Total Value
1			0.00110		0.12	0.17	
2			0.00330		0.12	0.17	
3			0.01400		0.12	0.17	
4			0.02200		0.12	0.17	
5			0.03400		0.12	0.17	
6			0.05700		0.12	0.17	
7			0.10000		0.12	0.17	
8			0.15000		0.12	0.17	
9			0.23000		0.12	0.17	
10			0.34000		0.12	0.17	
11			0.50000		0.12	0.17	
12	2	2	0.62000	1.24000	0.12	0.17	\$0.35
13	3	3	0.78000	2.34000	0.12	0.17	\$0.52
14	2	2	0.99000	1.98000	0.12	0.17	\$0.35
15	2	2	1.14000	2.28000	0.12	0.17	\$0.35
16	3	3	1.29000	3.87000	0.12	0.17	\$0.52
17			1.65000		0.12	0.17	
18			1.86000		0.12	0.17	
Total	12	12		11.71000			\$2.09

Table ?. Inch group, number, weight, and monetary value of SKIPJACK HERRING killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
11			
12	2	1.24000	0.35
13	3	2.34000	0.52
14	2	1.98000	0.35
15	2	2.28000	0.35
16	3	3.87000	0.52
17			
18			
Total	12	11.71000	\$2.09

Gorgas Steam Plant June 16

SKIPJACK HERRING

Expansion Number:

Producer Price Index (PPI):

Inch Group	Sample Number	Expanded Number	Average Empirical Weight	Total Weight	Price per Fish (or lb.) (AFS pub. 30)	Corrected Price	Total Value
1			0.00110		0.41	0.60	
2			0.00330		0.41	0.60	
3			0.01400		0.41	0.60	
4			0.02200		0.41	0.60	
5			0.03400		0.41	0.60	
6			0.05700		0.41	0.60	
7			0.10000		0.41	0.60	
8			0.15000		0.41	0.60	
9			0.23000		0.41	0.60	
10			0.34000		0.41	0.60	
11			0.50000		0.41	0.60	
12	2	2	0.62000	1.24000	0.41	0.60	\$0.74
13	3	3	0.78000	2.34000	0.41	0.60	\$1.39
14	2	2	0.99000	1.98000	0.41	0.60	\$1.18
15	2	2	1.14000	2.28000	0.41	0.60	\$1.36
16	3	3	1.29000	3.87000	0.41	0.60	\$2.31
17			1.65000		0.41	0.60	
18			1.86000		0.41	0.60	
Total	12	12		11.71000			\$6.98

Table 7. Inch group, number, weight, and monetary value of SKIPJACK HERRING killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
1			
2			
3			
4			
5			
6			
7			
8			
9			
10			
11			
12	2	1.24000	0.74
13	3	2.34000	1.39
14	2	1.98000	1.18
15	2	2.28000	1.36
16	3	3.87000	2.31
17			
18			
Total	12	11.71000	\$6.98

Gorgas Steam Plant June 16

SPOTTED SUCKER

Expansion Number:

Producer Price Index (PPI):

Group	Sample Number	Expanded Number	Average Empirical Weight	Total Weight	Price per Fish (or lb.) (AFS pub. 30)	Corrected Price	Total Value
1					0.41	0.60	
2			0.00100		0.41	0.60	
3			0.01000		0.95	1.38	
4			0.02100		0.95	1.38	
5			0.04700		0.95	1.38	
6			0.09500		1.19	1.73	
7			0.14000		2.37	3.44	
8			0.18000		2.37	3.44	
9			0.28000		2.37	3.44	
10			0.39000		2.37	3.44	
11			0.50000		2.37	3.44	
12			0.71000		2.37	3.44	
13			0.87000		3.56	5.17	
14			1.04000		3.72	5.41	
15			1.26000		3.72	5.41	
16			1.61000		3.72	5.41	
17	1	1	2.08000	2.08000	3.72	5.41	\$11.24
Total	1	1		2.08000			\$11.24

Table 7. Inch group, number, weight, and monetary value of SPOTTED SUCKER killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
17	1	2.08000	11.24
Total	1	2.08000	\$11.24

Gorgas Steam Plant June 16

BLUE CATFISH

Expansion Number:

Producer Price Index (PPI):

Inch Group	Sample Number	Expanded Number	Average Empirical Weight	Total Weight	Price per Fish (or lb.) (AFS pub. 30)	Corrected Price	Total Value
1			0.00093				
2			0.00330		0.05	0.07	
3			0.00780		0.13	0.19	
4	1	1	0.01800	0.01800	0.20	0.29	\$0.29
5	1	1	0.04100	0.04100	0.26	0.38	\$0.38
6	1	1	0.06200	0.06200	0.33	0.48	\$0.48
7			0.10000		0.41	0.60	
8			0.15000		0.43	0.62	
9			0.24000		0.61	0.89	
10			0.32000		0.89	1.29	
11			0.40000		0.89	1.29	
12			0.53000		0.91	1.32	
13			0.67000		1.35	1.96	
14			0.88000		1.50	2.18	
15			1.09000		1.50	2.18	
16			1.36000		1.29	1.87	
17			1.65000		1.29	1.87	
18			1.99000		1.29	1.87	
19			2.45000		1.29	1.87	
20			3.08000		1.29	1.87	
21			3.36000		1.29	1.87	
22			4.03000		1.29	1.87	
23			4.75000		1.29	1.87	
24			5.54000		1.29	1.87	
25			6.42000		1.29	1.87	
26			7.32000		1.29	1.87	
27			8.34000		1.29	1.87	
28			9.64000		1.29	1.87	
29			10.15000		1.29	1.87	
30			12.61000		1.29	1.87	
31			14.39000		1.29	1.87	
32			15.97000		1.29	1.87	
33			16.93000		1.29	1.87	
34			18.79000		1.29	1.87	
35			22.00000		1.29	1.87	
36			22.00000		1.29	1.87	
37			27.50000		1.29	1.87	
38			28.27000		1.29	1.87	
39			28.27000		1.29	1.87	
40			38.63000		1.29	1.87	
41			38.63000		1.29	1.87	
42			44.40000		1.29	1.87	
43			44.00000		1.29	1.87	
44			44.00000		1.29	1.87	
45			49.90000		1.29	1.87	
46			49.90000		1.29	1.87	
47			51.00000		1.29	1.87	
Total	3	3		0.12100			\$1.15

No data available: used the average empirical weight of the previous length.

Table 9. Inch group, number, weight, and monetary value of BLUE CATFISH killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
4	1	0.01800	0.29
5	1	0.04100	0.38
6	1	0.06200	0.48
Total	3	0.12100	\$1.15

Gorgas Steam Plant June 16

FRESHWATER DRUM

Expansion Number:

Producer Price Index (PPI):

Inch Group	Sample Number	Expanded Number	Average Empirical Weight	Total Weight	Price per Fish (or lb.) (AFS pub 30)	Corrected Price	Total Value
1			0.00032		0.13	0.19	
2			0.0046		0.13	0.19	
3			0.0120		0.13	0.19	
4	4	4	0.0200	0.08000	0.21	0.31	\$1.22
5			0.0430		0.21	0.31	
6	1	1	0.0860	0.08600	0.21	0.31	\$0.31
7	8	8	0.1400	1.12000	0.32	0.46	\$3.72
8	4	4	0.1900	0.76000	0.32	0.46	\$1.86
9	7	7	0.2900	2.03000	0.45	0.65	\$4.58
10	3	3	0.4000	1.20000	0.45	0.65	\$1.96
11	3	3	0.5400	1.62000	0.53	0.77	\$2.31
12	3	3	0.6900	2.07000	0.62	0.90	\$2.70
13	1	1	0.9200	0.92000	0.82	1.19	\$1.10
14	1	1	1.1900	1.19000	0.82	1.19	\$1.42
15			1.3800		0.82	1.19	
16			1.9100		0.82	1.19	
17			2.2600		0.82	1.19	
18			2.7400		0.82	1.19	
19			3.5600		0.82	1.19	
20			3.9400		0.82	1.19	
21			5.3400		0.82	1.19	
22			5.75000		0.82	1.19	
23			7.06000		0.82	1.19	
24			7.94000		0.82	1.19	
25			9.23000		0.82	1.19	
26			11.02000		0.82	1.19	
27			11.03000		0.82	1.19	
28			11.50000		0.82	1.19	
29			15.50000		0.82	1.19	
Total	35	35		11.07600			\$21.17

Table 10. Inch group, number, weight, and monetary value of FRESHWATER DRUM killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
1			
2			
3			
4	4	0.08000	1.22
5			
6	1	0.08600	0.31
7	8	1.12000	3.72
8	4	0.76000	1.86
9	7	2.03000	4.58
10	3	1.20000	1.96
11	3	1.62000	2.31
12	3	2.07000	2.70
13	1	0.92000	1.10
14	1	1.19000	1.42
Total	35	11.07600	\$21.17

Gorgas Steam Plant June 16

STRIPED BASS

Expansion Number: 1.00

Producer Price Index (PPI): 1.4530

Inch Group	Sample Number	Expanded Number	*Average Empirical Weight	Total Weight	Price per Fish (or lb.) (AFS pub. 30)	Corrected Price	Total Value
1			0.00044		0.08	0.12	
2			0.00354		0.26	0.38	
3			0.01197		0.61	0.89	
4			0.02842		0.75	1.09	
5	1	1	0.05560	0.05560	1.46	2.12	\$2.12
6	3	3	0.09620	0.28859	1.56	2.27	\$6.80
7	4	4	0.15292	0.61169	2.92	4.24	\$16.97
8	7	7	0.22848	1.59939	2.92	4.24	\$29.70
9	2	2	0.32559	0.65118	11.32	16.45	\$10.71
10	6	6	0.44696	2.68173	11.32	16.45	\$44.11
11	4	4	0.59529	2.38118	11.32	16.45	\$39.16
12	2	2	0.77332	1.54665	11.32	16.45	\$25.44
13			0.98377		11.32	16.45	
14			1.22934		11.32	16.45	
15			1.51276		11.32	16.45	
16			1.83676		11.32	16.45	
17			2.20406		11.32	16.45	
18			2.61739		11.32	16.45	
19			3.07947		11.32	16.45	
20			3.59303		11.32	16.45	
21			4.16080		11.32	16.45	
22			4.78552		11.32	16.45	
23			5.46990		11.32	16.45	
24	1	1	6.21669	6.21669	11.32	16.45	\$102.25
25			7.02861		11.32	16.45	
26	1	1	7.90840	7.90840	11.32	16.45	\$130.08
27			8.85880		11.32	16.45	
28			9.88253		11.32	16.45	
29	1	1	10.98233	10.98233	11.32	16.45	\$180.63
30			12.16095		11.32	16.45	
31			13.42111		11.32	16.45	
32	1	1	14.76556	14.76556	11.32	16.45	\$242.86
33			16.19702		11.32	16.45	
34	2	2	17.71825	35.43651	11.32	16.45	\$582.85
35	1	1	19.33198	19.33198	11.32	16.45	\$317.97
36			21.04095		11.32	16.45	
Total	36	36		104.45748			\$1,731.65

Table 11. Inch group, number, weight, and monetary value of STRIPED BASS killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
1			
2			
3			
4			
5	1	0.05560	2.12
6	3	0.28859	6.80
7	4	0.61169	16.97
8	7	1.59939	29.70
9	2	0.65118	10.71
10	6	2.68173	44.11
11	4	2.38118	39.16
12	2	1.54665	25.44
13			
14			
15			
16			
17			
18			
19			
20			
21			
22			
23			
24	1	6.21669	102.25
25			
26	1	7.90840	130.08
27			
28			
29	1	10.98233	180.63
30			
31			
32	1	14.76556	242.86
33			
34	2	35.43651	582.85
35	1	19.33198	317.97
36			
Total	36	104.45748	\$1,731.65

*Average empirical weights were calculated using $W=(.000011912)L^{3.007}$, with lengths and weights converted from metric to english units.

Gorgas Steam Plant June 16

HYBRID STRIPED BASS

Expansion Number:

Producer Price Index (PPI):

Inch Group	Sample Number	Expanded Number	*Average Empirical Weight	Total Weight	Price per Fish (or lb.) (AFS pub. 30)	Corrected Price	Total Value
1			0.00036		0.08	0.12	
2			0.00314		0.26	0.38	
3			0.01120		0.61	0.89	
4			0.02764		0.75	1.09	
5			0.05569		1.46	2.12	
6			0.09870		1.56	2.27	
7			0.16013		2.92	4.24	
8			0.24351		2.92	4.24	
9			0.35244		11.32	16.45	
10			0.49059		11.32	16.45	
11	1	1	0.66169	0.6617	11.32	16.45	\$10.88
12			0.86950		11.32	16.45	
13			1.11786		11.32	16.45	
14			1.41064		11.32	16.45	
15			1.75174		11.32	16.45	
16			2.14512		11.32	16.45	
17			2.59477		11.32	16.45	
18			3.10470		11.32	16.45	
19			3.67898		11.32	16.45	
20			4.32168		11.32	16.45	
21			5.03693		11.32	16.45	
22			5.82887		11.32	16.45	
23			6.70168		11.32	16.45	
24			7.65954		11.32	16.45	
25			8.70670		11.32	16.45	
26			9.84739		11.32	16.45	
27			11.08589		11.32	16.45	
28			12.42650		11.32	16.45	
29			13.87353		11.32	16.45	
30			15.43133		11.32	16.45	
31			17.10426		11.32	16.45	
32			18.89668		11.32	16.45	
33			20.81302		11.32	16.45	
34			22.85768		11.32	16.45	
35			25.03510		11.32	16.45	
36			27.34975		11.32	16.45	
Total	1	1		0.6617			\$10.88

Table 7: Inch group, number, weight, and monetary value of HYBRID STRIPED BASS killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
11	1	0.6617	10.88
Total	1	0.6617	\$10.88

*Average empirical weights were calculated using $W=(.0000062951)L^{3.139}$, with lengths and weights converted from metric to english units.

Gorgas Steam Plant June 16

YELLOW BASS

Expansion Number:

Producer Price Index (PPI):

Inch Group	Sample Number	Expanded Number	Average Empirical Weight	Total Weight	Price per Fish (or lb.) <small>(AFS pub. 30)</small>	Corrected Price	Total Value
1					0.18	0.26	
2			0.00570		0.36	0.52	
3			0.00860		0.53	0.77	
4			0.02300		0.71	1.03	
5			0.06200		0.89	1.29	
6			0.10000		1.07	1.55	
7			0.17000		1.24	1.80	
8	1	1	0.28000	0.28000	1.42	2.06	\$2.06
9			0.37000		1.60	2.32	
10			0.49000		1.78	2.59	
11			0.58000		1.96	2.85	
12			0.72000		2.13	3.09	
Total	1	1		0.28000			\$2.06

Table ?. Inch group, number, weight, and monetary value of

YELLOW BASS

killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
8	1	0.28000	2.06
Total	1	0.28000	\$2.06

Gorgas Steam Plant June 16

LARGEMOUTH BASS

Expansion Number:

Producer Price Index (PPI):

Inch Group	Sample Number	Expanded Number	Average Empirical Weight	Total Weight	Price per Fish (or lb.) <small>(AFS pub. 30)</small>	Corrected Price	Total Value
1					0.35	0.51	
2			0.00450		0.46	0.67	
3			0.01400		0.64	0.93	
4			0.02700		0.81	1.18	
5			0.05600		0.98	1.42	
6			0.10000		1.22	1.77	
7			0.17000		1.66	2.41	
8			0.24000		2.03	2.95	
9			0.33000		2.40	3.49	
10			0.46000		3.20	4.65	
11			0.68000		4.00	5.81	
12			0.87000		4.00	5.81	
13			1.08000		6.00	8.72	
14			1.35000		9.06	13.16	
15			1.67000		10.00	14.53	
16			2.06000		5.44	7.90	
17			2.63000		5.44	7.90	
18			3.20000		5.44	7.90	
19			3.70000		5.44	7.90	
20			4.76000		5.44	7.90	
21	2	2	5.56000	11.12000	5.44	7.90	\$87.89
Total	2	2		11.12000			\$87.89

Table 12. Inch group, number, weight, and monetary value of **LARGEMOUTH BASS** killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
21	2	11.12000	87.89
Total	2	11.12000	\$87.89

BLUEGILL

Expansion Number: 1.00

Producer Price Index (PPI): 1.4530

Inch Group	Sample Number	Expanded Number	Average Empirical Weight	Total Weight	Price per Fish (or <i>lb.</i>) <small>(AFS pub. 30)</small>	Corrected Price	Total Value
1			0.00110		0.24	0.35	
2			0.00470		0.27	0.39	
3			0.01600		0.30	0.44	
4			0.04100		0.33	0.48	
5	1	1	0.08100	0.08100	0.48	0.70	\$0.70
6			0.14000		0.84	1.22	
7			0.23000		1.33	1.93	
8	1	1	0.35000	0.35000	2.06	2.99	\$2.99
9			0.77000		2.57	3.73	
10			0.96000		2.84	4.13	
11			1.52000		3.49	5.07	
Total	2	2		0.43100			\$3.69

Table 14. Inch group, number, weight, and monetary value of **BLUEGILL** killed in Bankhead Reservoir, Walker County, on June 16, 2016.

Inch Group	Number	Weight (lbs.)	Value
5	1	0.08100	\$0.70
6			
7			
8	1	0.35000	\$2.99
Total	2	0.43100	\$3.69

Acres of lake affected: 26 Miles of stream: _____
 Temperature of water: 83 Temp. air: 90 Weather: Clear. Heavy rain prece

Comments: (Include: water analysis data; location of water, fish, and bottom samples; number of photographs taken; and names and addresses of investigators or persons interviewed):

Dissolved oxygen was 9.2 m/l upstream of the discharge canal 3.5 m/l in the canal, and 5 m/l downstream of the canal. There was an oily sheen approximately 200-300 yards long on the surface of the water downstream of the discharge canal. The water exiting the canal was more turbid than the water upstream of the canal.

FISH-KILL OR POLLUTION

Stream or lake: Mulberry Fork of the Black Warrior River, Bankhead Reservoir
 County: Walker
 Nearest Town: Parrish
 Date Investigated: June 16th 2016
 Specific location on body of water: Immediately downstream of the Gorgas Discharge Canal
County: Walker
 Duration of kill: From: June 15th 2016 To: June 16th 2015
 Investigated by: Christopher McKee
 Time, date and person reporting: 8:20 AM June 16th 2016 James Bramlett
 Tel No: 205-648-0534
 Date kill first noted: June 16th 2016 Was area seined: No

Game fish killed:	Number	<u>40</u>	Pounds	<u>116.0</u>	Value	<u>\$1,823.23</u>
Non-game fish killed:	Number	<u>57</u>	Pounds	<u>26.5</u>	Value	<u>\$49.09</u>
TOTAL:	Number	<u>97</u>	Pounds	<u>142.5</u>	Value	<u>\$1,872.33</u>

Condition of fish: Decomposing
 Other animals affected: None
 Cause of kill: Unknown
 Kind of pollution: Unknown
 Source of pollution: Gorgas Steam Plan
 Date report written: June 21 2016 Appearance of water: Oily Sheen and Turbid

SPECIES	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16+	Total Number	Total Pounds	Value
Skijaack (\$ per inch)																	12	11.71000	\$2.09
GIZZARD SHAD (\$ /inch)						1		1				2					2	0.26400	\$0.35
YELLOW SHAD (\$ /lb)	###	####	####	####	####	1	####	1	####	####	1	####	####	####	####	####	1	0.28000	\$2.06
HYBRID STRIPED BASS	###	####	####	####	####	####	####	####	####	####	1	####	####	####	####	####	1	0.66000	\$10.88
SPOTTED SUGKER	###	####	####	####	####	####	####	####	####	####	####	####	####	####	####	1	1	2.08000	\$11.24
BLUE CATFISH				1	1	1											3	0.12100	\$1.15
FRESHWATER DRUM				4		1	8	4	7	3	3	3	1	1			35	11.07600	\$21.17
STRIPED BASS					1	3	4	7	2	6	4	2					36	104.45748	\$1,731.65
LARGEMOUTH BASS																2	2	11.12000	\$87.89
BLUEGILL					1			1									2	0.43100	\$3.69
GRAND TOTAL																	97	142.46348	\$1,872.33

Total Charges for Fish Kill Worksheet

Current Mileage Charge (cents/mile):

0.54

for 2016 (<https://www.irs.gov/Tax-Professionals/Standard-Mileage-Rates/>)

ONLY ENTER DATA IN YELLOW COLORED CELLS

Employee Name	Current Hourly Salary Plus Benefits (as of 9/15/14)	Number of Hours Worked	Total Salary Charges	Number of Miles Driven	Total Mileage Charges	Total Per Diem Claimed
Christopher McKee	\$34.38	11.0	\$378.18	110	\$59.40	\$22.50
Channing Cantrell	\$21.05	11.0	\$231.55		\$0.00	\$11.25
Sub-totals		22.0	\$609.73	110	\$59.40	\$33.75

GRAND TOTALS	
Value of Fish:	\$1,872.33
Salaries, Benefits, Mileage, and Per Diem:	\$702.88
Total Charges for Fish Kill:	\$2,575.21