



January 29, 2018

David P. Fortson, P.E., County Engineer  
Macon-Bibb County Engineering Department  
780 Third Street  
Macon, GA 31201

Dear Mr. Fortson

The Natural Resources Conservation Service (NRCS) has completed the 5-year Operation and Maintenance (O&M) inspection on the following watershed facilities:

- Tobesofkee #1

As you are aware, the watershed project sponsor is responsible for maintaining dams installed through the Watershed Protection and Flood Prevention Program. Please refer to the enclosed copies of the Watershed Structure Inspection Report regarding the needed actions to make the dam safe and functional for the purposes of the project.

Please feel free to contact George Skovran, NRCS O&M State Dam Engineer at (706) 552-2537, for further guidance regarding the required maintenance work.

DIANE A. GUTHRIE, P.E.  
State Conservation Engineer

Attachment: O&M Inspection Reports (available on DamWatch at <https://dmt.sc.egov.usda.gov/nrcs-natl/main/main.html>)

cc: Diane A. Guthrie, P.E., State Conservation Engineer, NRCS, Athens, GA  
George Skovran, P.E., O&M State Dam Engineer, NRCS, Athens, GA  
Randy Odom, P.E., Area Engineer, NRCS, Moultrie, GA  
Floyd Hooker, Assistant State Conservationist for Field Operations, NRCS, Americus, GA  
Tom Woosley, Program Manager, Georgia Dam Safety Program, Atlanta, GA  
✓ Marcus Griffin, District Conservationist, NRCS, Fort Valley, GA

<b>U.S. DEPARTMENT OF AGRICULTURE</b> Natural Resources Conservation Service	<b>DAM FIELD INSPECTION CHECKLIST</b>	Rev 12/2017
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<b>State</b> <u>Georgia</u>	<b>Site Number</b> <u>1</u>	<b>Inspection Date</b> <u>12-04-2017</u>
<b>Watershed</b> <u>Tobesofkee</u>	<b>NID #</b> <u>GA00201</u>	
<b>County</b> <u>BIBB</u>	<b>Safe Dams Classification</b> <u>I</u>	
<b>NRCS Class</b> <u>H</u>	<b>Purpose(s) of Dam</b> <u>Recreation, Industrial</u>	
<b>Service Center</b> <u>Fort Valley NRCS Field Office</u>	<b>Weather</b> <u>Sunny, Warm</u>	
<b>Sponsor with Operation and Maintenance Responsibility</b> <u>Bibb County</u>		
<b>Latitude</b> <u>32.8200</u> <b>N</b>	<b>Longitude</b> <u>-83.6377</u> <b>W</b>	
<b>Type of Inspection</b> <input checked="" type="checkbox"/> <b>Formal</b> <input type="checkbox"/> <b>Other</b>		

A hazard classification that is no longer accurate or unknown will need explanation in Remarks section after checklist.

"YES" responses need explanation added to "Remarks" section. (i.e.: What? Where? Extent?)

"NO" responses indicate problems not observed during inspection.

Non-applicable items should be noted by N/A.

ITEM	Y	N	N/A	REMARKS
<b>1. General Condition</b>				
a. Alterations to Dam?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Recent high water marks? (elevation)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Fencing inadequate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Development in flood pool?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Easement Violations?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>2. Dam Crest: earthen</b> <input type="checkbox"/> <b>vegetated</b> <input checked="" type="checkbox"/> <b>concrete</b> <input type="checkbox"/> <b>paved</b> <input type="checkbox"/> <b>gravel</b> <input type="checkbox"/> <b>other (specify):</b>				
a. Is condition of surface material inadequate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Erosion/rutting evident?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Trees/woody vegetation?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Rodent holes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Settlement, obstructions or other concerns?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>3. Upstream Slope</b>				
a. Is vegetative cover inadequate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Cracks, settlements or bulges?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Distinct Vegetation Change?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Vehicle Ruts?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Animal Trails?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Trees?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Rodent holes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h. Is riprap inadequate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

<b>4. Downstream Slope</b>				
a. Is vegetative cover inadequate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Cracks, settlements, & bulges?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Seepage or boils?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Distinct Vegetation Change?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	location
e. Vehicle ruts?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Animal trails?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Trees?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h. Rodent holes?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>5. PSW Intake Structure</b> concrete <input type="checkbox"/> metal <input type="checkbox"/>				Water Surface Elevation
a. Spalling, cracking, & scaling?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Calcium carbonate leaching in various areas on spillway walls
b. Exposed reinforcement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Corrosion present?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Manhole cover present?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Leakage?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Both gates leak at bottom seals
f. Trash rack adequate?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
g. Inlet or trash rack obstructed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
h. Ladder not intact?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
i. Pedestal not securely fastened?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
j. Stem bent?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
k. Stem guides not operational?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
l. Stem handwheel missing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
m. Do metal parts require painting?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Repainting to be completed in the next few years
n. Was gate determined not operational?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Date gate last operated: Left side opened during inspection
o. Has inlet been modified to alter water surface?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
p. Is there structural movement?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
q. Is access door missing?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
<b>6. Abutment Contacts</b>				
a. Erosion, cracks, or slips?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Seepage?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Gutters not intact?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Trees encroaching?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>7. Auxiliary Spillway</b>				
a. Obstructions?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	Trunion gate systems serve as both principle and auxiliary spillway
b. Is vegetative cover inadequate?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
c. Is Control Section disturbed?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
d. Roads, vehicle ruts, or animal trails?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
e. Low areas or ditches?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
f. Seepage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	

8. PSW Conduit	concrete <input type="checkbox"/>	metal <input type="checkbox"/>			tailwater elevation/flow
a. Spalling, cracking, & scaling?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Exposed reinforcement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Joints displaced or offset?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Joint material lost?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Leakage?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Conduit misaligned?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Was pipe inspected internally?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
<b>9. Stilling Basin <input type="checkbox"/> Plunge Pool <input type="checkbox"/></b>					
a. Spalling, cracking, & scaling?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
b. Exposed reinforcement?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
c. Joints displaced or offset?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d. Joint material lost?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
e. Joints leak?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Dissipater deteriorating?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Dissipater clean of debris?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
h. Toe drains not visible?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
i. Toe drains flowing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
j. Toe drain animal guards missing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
k. Toe drains damaged or restricted?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
l. Earth erosion?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
m. Is riprap inadequate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
<b>10. Principal Spillway Release Channel</b>					
a. Does scour hole appear unstable?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b. Any boils observed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c. Is riprap inadequate?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d. Any seepage observed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e. Is conduit outlet submerged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
f. Is conduit outlet not properly supported?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
g. Is outlet channel obstructed?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
h. Is outlet channel degrading?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	



**Present During Inspection:**

NAME	TITLE	ORGANIZATION
George Skovran	O&M State Dam Eng.	NRCS
Diane Guthrie	State Cons. Eng.	NRCS
Molly Dawson, Mark Hall, Brandon Quinn	Athens State Office	NRCS
Steve Blackston	Area 1 Engineer	NRCS
Randy Odom, Alan Woodward	Area 3 Eng.	NRCS
David Fortson	County Engineer	Macon-Bibb County
Donald Bracewell	Tobesofkee Dir.	Macon-Bibb County
Charles Brooks	Engineer IV	Macon-Bibb County

**ACTIONS NEEDED:** identify items by priority:

Low (next 12 months); High (as soon as possible). Indicate date assistance requested; technical or financial.

Continue to mow embankment

As noted on previous inspections, there is some calcium carbonate leaching on multiple locations of the spillway walls. These areas should be monitored and any change should be documented.

**O&M Non-Compliance Issues**

<input type="checkbox"/>	1. Human Safety (such as missing access cover(s)).	<input type="checkbox"/>	7. Drain pipe problems.
<input type="checkbox"/>	2. Trash rack or parts of trash rack missing.	<input type="checkbox"/>	8. Severe embankment erosion.
<input type="checkbox"/>	3. Trash rack debris blockage.	<input type="checkbox"/>	9. Flood pool storage alteration.
<input type="checkbox"/>	4. Principal spillway clogged.	<input type="checkbox"/>	10. Severe tailwater issues.
<input type="checkbox"/>	5. Severe erosion of principal spillway outlet.	<input type="checkbox"/>	11. Auxiliary spillway blockage (usually fence or trees in spillway).
<input type="checkbox"/>	6. Auxiliary spillway without complete dense permanent vegetative cover in the control or exit sections (lack of vegetation or irregularity such as a road in the control or exit section).	<input type="checkbox"/>	12. Severe woody vegetative growth on embankment, principal spillway outlet, or along permanent pool of dam.

**Documents included (circled as appropriate):**

	Y	N	N/A
This checklist	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Pictures	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Surveys	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (Please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (Please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other (Please specify)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

WATERSHED Tobesofkee

SITE NUMBER 1

INSPECTION DATE 1/9/18

**Inspection Acknowledged by:**

SPONSOR REPRESENTATIVE: David P. Farkson, P.E.  
Printed Name

Title: County Engineer

David P. Farkson 1/9/18  
Signature/Date

**Inspection Acknowledged by:**

SPONSOR REPRESENTATIVE: Donald Brewster II  
Printed Name

Title: Director Lake Tobesofkee

Donald Brewster II  
Signature/Date

**Dam Inspected by:**

ENGINEER (NRCS or OTHER): George Skovran  
Printed Name

PROFESSIONAL ENGINEER STATE  
(IF OTHER)

Title: O&M State Dam Engineer

George Skovran 1/12/18  
Signature/Date

**Checklist Reviewed and Approved by:**

STATE CONSERVATION ENGINEER: Diane A. Guthrie  
Printed Name

Title: State Conservation Engineer

Diane A. Guthrie 01/25/2018  
Signature/Date

**DISTRIBUTION:**

Original - State Conservation Engineer (with all documentation)  
Copies - Sponsor or Owner, Field Office

**DAM FIELD INSPECTION CHECKLIST**

Use the following standard abbreviations:

US - Left side looking downstream  
RS - Right side looking downstream

US - Upstream  
DS - Downstream

P/S - Primary spillway  
A/S - Auxiliary Spillway