

MCCOLL POND DAM : D0848

Dams Preliminary Inspection Form



Inspector: Ryan Sullivan

Start Date: 10/01/2018 Completed Date: 10/01/2018

Inspection Information		
1. Date of Inspection	09/28/2018	
2. Inspectors Present	Ryan Sullivan	
3. Other Persons Attending Inspection		
Name	Phone	Owner/Engineer/Other
Mr. Kornegay		Owner
PJ		Other
4. Is this a follow-up inspection?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA	
Observation/Instrumentation		
1. Estimate the current level of the water in the reservoir:	Breached	
<input type="text" value="Dam breached during Hurricane Florence and is holding little to no water."/>		
2. Describe the current weather & conditions:	Sunny	
3. Recent rainfall quantity:	2" or greater	
<input before."="" of="" rain="" the="" type="text" value="Hurricane Florence brought ~20" week=""/>		
4a. Are Piezometers or Observation Wells present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
4b. (If Present:) Condition of Piezometers/Observation Wells		
5a. Is a Staff Gauge or Recorder present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
5b. (If Present:) Condition of Staff Gauge or Recorder		
6a. Are Measurement Weirs Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
6b. (If Present:) Condition of Weirs:		
7a. Number of Spillways Present	0	
<input type="text" value="The owners did not believe there was a spillway, though they were somewhat unfamiliar with the dam. No spillway observed."/>		
7b. Type of Spillways Present		
8. Other:		
9. Additional Comments (Refer to item number if applicable)		
Embankment: Crest		
Is this section applicable for this dam?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	

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Embankment: Crest

1. Grass Cover

Action Required

Little to no grass cover.



Photo Taken: 9/28/2018 1:53:18 PM

2. Deleterious Vegetation

Action Required

Brush and woody vegetation observed on crest. See above picture

3. Trees

Action Required

Dam is covered in trees greater than 4" in diameter.



Photo Taken: 9/28/2018 1:53:18 PM

4. Animal Activity

Monitor

Could not inspect full dam due to breach.

5. Surface Cracking

Monitor

Could not inspect full dam due to breach.



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Embankment: Crest	
6. <i>Horizontal Alignment</i>	Monitor
<input type="text" value="Could not inspect full dam due to breach."/>	
7. <i>Settlement</i>	Monitor
<input type="text" value="Could not inspect full dam due to breach."/>	
8. <i>Sinkhole</i>	Monitor
<input type="text" value="Could not inspect full dam due to breach"/>	
9. <i>Erosion</i>	Action Required
<p>Full breach through center of the dam.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 45%;"> <p>Photo Taken: 9/28/2018 1:55:01 PM</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 20px;"> <div style="width: 45%;">  </div> <div style="width: 45%;"> <p>Photo Taken: 9/28/2018 1:58:13 PM</p> </div> </div>	
10a. <i>Are Alterations/Repairs Present?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10b. <i>(If Present:.) Alterations/Repairs Condition</i>	

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Embankment: Crest	
<i>11. Other:</i>	
<i>12. Embankment: Crest Condition</i>	Needs Permitted Repair(s), Condition Prevented Full Inspection
<div style="border: 1px solid black; padding: 2px;"> Violation Determined: 10/1/2018 DAMMAINTREP </div>	
<i>13. Additional Comments (Refer to item number if applicable)</i>	
Concrete/Masonry Dams: Crest	
<i>Is this section applicable for this dam?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>1. Surface Conditions</i>	
<i>2. Horizontal Alignment</i>	
<i>3. Vertical Alignment</i>	
<i>4. Condition of Joints</i>	
<i>5. Unusual Movement</i>	
<i>6a. Are Alterations/Repairs Present?</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No
<i>6b. (If Present:) Alterations/Repairs Condition</i>	
<i>7. Other:</i>	
<i>8. Concrete/Masonry Dam Crest Condition</i>	
<i>9. Additional Comments (Refer to item number if applicable)</i>	
Embankment: Upstream Slope	
<i>Is this section applicable for this dam?</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>1. Grass Cover</i>	Action Required
<div style="border: 1px solid black; padding: 2px;"> Little to no grass cover. </div>	

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Embankment: Upstream Slope

2. Deleterious Vegetation Action Required

Brush and woody vegetation observed on the upstream slope.



Photo Taken: 9/28/2018 1:53:14 PM

3. Trees Action Required

Several trees greater than 4" in diameter observed on upstream slope.



Photo Taken: 9/28/2018 1:52:35 PM

4. Animal Activity Monitor

Could not inspect the full dam due to breach.

5. Surface Cracking Monitor

Could not inspect full dam due to breach.

6. Subsidence, Sinkhole Monitor

Could not inspect full dam due to breach.

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Embankment: Upstream Slope	
7. <i>Slide, Slough, Scarp</i>	Monitor
<input type="text" value="Could not inspect full dam due to breach."/>	
8. <i>Groins</i>	Action Required
<input type="text" value="Could not inspect full dam due to breach. Left upstream groin had large trees and vegetation."/>	
9. <i>Erosion</i>	Action Required
<input type="text" value="Full breach through center of the dam."/>	
10a. <i>Slope Protection/Armoring Present?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10b. <i>(If Present:.) Slope Protection/Armoring</i>	
11a. <i>Alterations/Repairs Present?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
11b. <i>(If Present:.) Alterations/Repairs Condition</i>	
12. <i>Other:</i>	
13. <i>Embankment: Upstream Slope Condition</i>	Needs Permitted Repair(s), Condition Prevented Full Inspection
<input type="text" value="Violation Determined: 10/1/2018 DAMMAINTREP"/>	
14. <i>Additional Comments (Refer to item number if applicable)</i>	
Concrete/Masonry Dams: Upstream Face	
<i>Is this section applicable for this dam?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1. <i>Surface Conditions</i>	
2. <i>Condition of Joints</i>	
3. <i>Unusual Movement</i>	
4. <i>Abutments</i>	
5a. <i>Alterations/Repairs Present?</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No
5b. <i>(If Present:.) Alterations/Repairs Condition</i>	
6. <i>Other:</i>	
7. <i>Concrete/Masonry Dams: Upstream Face Condition</i>	
8. <i>Additional Comments (Refer to item number if applicable)</i>	

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Embankment: Downstream Slope

Is this section applicable for this dam?

Yes No

1. Grass Cover

Action Required

Little to no grass cover on downstream slope.



Photo Taken: 9/28/2018 1:56:35 PM

2. Deleterious Vegetation

Action Required

Brush and woody vegetation observed on downstream slope.

3. Trees

Action Required

Trees greater than 4" in diameter observed on downstream slope.

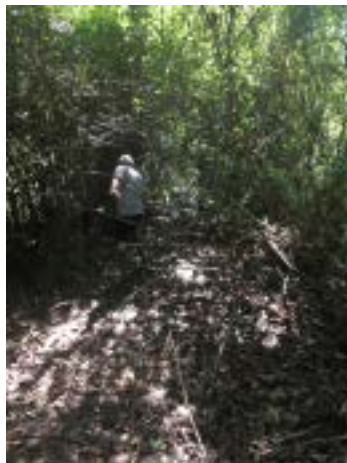


Photo Taken: 9/28/2018 1:53:18 PM

4. Animal Activity

Monitor

Could not inspect full dam due to breach.


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Embankment: Downstream Slope	
5. <i>Surface Cracking</i>	Monitor
Could not inspect full dam due to breach.	
6. <i>Subsidence, Sinkhole</i>	Monitor
Could not inspect full dam due to breach.	
7. <i>Slide, Slough, Scarp</i>	Monitor
Could not inspect full dam due to breach.	
8. <i>Groins</i>	Action Required
Could not inspect full dam due to breach. Left downstream groin had large trees and wood vegetation.	
9. <i>Erosion</i>	Action Required
Large breach through center of the dam.	
10a. <i>Slope Protection/Armoring Present?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10b. (If Present:) <i>Slope Protection Condition</i>	
11. <i>Wet Areas</i>	Monitor
<p>Could not inspect full dam due to breach. Water still pooled behind dam due to breach.</p> <div style="display: flex; align-items: center;">  <p>Photo Taken: 9/28/2018 1:56:15 PM</p> </div>	
12a. <i>Seepage</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No
Could not inspect full dam due to breach.	
12b. (If Present:) <i>Seepage Flow</i>	
13a. <i>Drainage System Present?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13b. (If Present:) <i>Drainage System Condition</i>	

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Embankment: Downstream Slope	
14a. Alterations/Repairs Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14b. (If Present:) Alterations/Repairs Condition	
15. Other:	
16. Embankment: Downstream Slope Condition	Needs Permitted Repair(s), Condition Prevented Full Inspection
<div style="border: 1px solid black; padding: 5px;"> Violation Determined: 10/1/2018 DAMMAINTREP </div>	
17. Additional Comments (Refer to item number if applicable)	
Concrete/Masonry Dams: Downstream Face	
Is this section applicable for this dam?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1. Surface Conditions	
2. Condition of Joints	
3. Unusual Movement	
4. Drains	
5. Leakage	
6. Abutments	
7a. Alterations/Repairs Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No
7b. (If Present:) Alterations/Repairs Condition	
8. Other:	
9. Concrete/Masonry Dam: Downstream Face Condition	
10. Additional Comments (Refer to item number if applicable)	
Downstream Area	
Is this section applicable for this dam?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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Downstream Area

Is Downstream Area clear?

Yes No

Water pooled behind the dam from the breach, as well as sand deposits from the eroded area.



Photo Taken: 9/28/2018 1:56:15 PM

1. Trees

Monitor

Could not inspect full dam due to breach.

2. Deleterious Vegetation

Monitor

Could not inspect full dam due to breach.

3. Wet Areas

Monitor

Could not inspect full dam due to breach.

4a. Seepage

Yes No NA

Dam is breached and holding very little water.

4b. (If Present): Seepage Flow

5a. Boils

Yes No NA

Dam is breached and holding very little water.

5b. (If Present): Boil Flow

6a. Alterations/Repairs Present

Yes No NA

6b. (If Present:) Alterations/Repairs Condition

7. Other:

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Downstream Area

8. Downstream Area Condition

Needs Maintenance,
Needs Permitted
Repair(s), Condition
Prevented Full
Inspection

**Violation Determined: 10/1/2018
DAMMAINTREP**

9. Additional Comments (Refer to item number if applicable)

Spillways: Erodible Channel

Is this section applicable for this dam?

Yes No

Could not inspect full dam due to breach.

1. Location

2. Grass Cover

3. Deleterious Vegetation

4. Trees

5. Animal Activity

6. Subsidence, Sinkhole

7. Slide, Slough, Scarp

8. Erosion

9. Debris

10. Flowing?

Yes No NA

11a. Alterations/Repairs Present

Yes No NA

11b. (If Present:) Alterations/Repairs Condition

12. Other:

13. Spillway: Erodible Channel Condition

14. Additional Comments (Refer to item number if applicable)

Spillways: Non-Erodible Channel

Is this section applicable for this dam?

Yes No

Could not inspect full dam due to breach. Owner did not believe there was a spillway.

1. Location

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Spillways: Non-Erodible Channel	
2. Approach Area	
3. Weir/Control	
4. Sidewalls	
5. Channel Floor	
6. Condition of Joints	
7. Surface Condition	
8. Unusual Movement	
9. Discharge Channel	
10. Debris	
11. Flowing?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
12a. Boils	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
12b. (If Present): Boils	
13a. Alterations/Repairs Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
13b. (If Present:) Alterations/Repairs Condition	
14. Other:	
15. Spillway: Non-Erodible Channel Condition	
16. Additional Comments (Refer to item number if applicable)	
Spillways: Inlet Structure	
Is this section applicable for this dam? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
<div style="border: 1px solid black; padding: 5px;"> Could not inspect full dam due to breach. Owner did not believe there was a spillway. None observed. </div>	
1. Location	
2a. Intake Structure	
2b. Intake Structure Types	
3. Trashrack	
4a. Low-Level Valve Present?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
4b. (If Present:) Low-Level Valve Condition	
5. Debris	

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Spillways: Inlet Structure	
6a. Repairs/Alterations Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
6b. (If Present:) Alterations/Repairs Condition	
7. Other:	
8. Spillway: Inlet Structure Condition	
9. Additional Comments (Refer to item number if applicable)	
Spillways: Outlet Works	
Is this section applicable for this dam?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
Could not inspect full dam due to breach. Owner did not believe there was a spillway. None observed.	
1. Location	
2a. Outlet Structure	
2b. Outlet Structure Type	
3. Outlet Pipe	
4. Primary Closure/Control	
5. Secondary Closure/Control (If Applicable)	
6. Unusual Movement	
7a. Seepage	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
7b. (If Present): Seepage	
8. Stilling Basin	
9. Normal Flow Quantity	
10. Low-Level Flow Quantity	
11a. Alterations/Repairs Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
11b. (If Present:) Alterations/Repairs	
12. Other:	
13. Outlet Works Condition	
14. Additional Comments (Refer to item number if applicable)	
Emergency Action Plan	
Is this section applicable for this dam?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

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Emergency Action Plan

1. Date of last update of emergency plan:

2a. EAP provided by owner? Yes No NA

2b. (If EAP was not provided, was a copy of the EAP form left with the owner?) Yes No NA

3. Does EAP contain emergency alert plan? Yes No NA

4. Does EAP contain specific actions to take if the dam has failed or is failing? Yes No NA

5. Additional Comments (Refer to item number if applicable)

Downstream Hazard Check

1. Satellite Imagery Yes No NA



Photo Taken: 10/1/2018 2:43:12 PM

2. Inundation Map Yes No NA

3. Structures/Developments Yes No NA

4. Roads/Railways Yes No NA

Judson Road is ~1200ft downstream.

5. Utilities Yes No NA

6. Consider For Reclass? Yes No NA

Low traffic Judson Road fairly close downstream, appeared to have taken damage during the hurricane.

7. Additional Comments (Refer to item number if applicable)

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Inspection Summary	
<i>1. Overall Condition (*Per National Inventory of Dams Definition)</i>	Not Rated
<p>-----NID Definitions-----</p> <p><i>(SATISFACTORY) No existing or potential dam safety deficiencies are recognized. Acceptable performance is expected under all loading conditions in accordance with state engineer's rules and regulations for dams or tolerable risk guidelines.</i></p> <p><i>(FAIR) No existing dam safety deficiencies are recognized for normal loading conditions. Rare or extreme hydrologic and/or seismic events may result in a dam safety deficiency. Risk may be in the range to take further action.</i></p> <p><i>(POOR) A dam safety deficiency is recognized for loading conditions, which may realistically occur. Remedial action is necessary. A POOR condition is used when uncertainties exist as to critical analysis parameters, which identify a potential dam safety deficiency. Further investigations and studies are necessary.</i></p> <p><i>(UNSATISFACTORY) A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.</i></p> <p><i>(NOT RATED) This should only be used if it is not possible to assess to dam's condition due to site constraints on visibility on the day of inspection. If vegetation is a problem the owner should be ordered perform maintenance to remove it before the next visit.</i></p>	
<i>3. Final Comments</i>	
Very large, full breach in the center of the dam. Looked to be at least ten feet wide.	

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Inspection Summary

Preliminary Dam Inspection Disclaimer:

The information contained in the preliminary inspection report is intended as an aid to identify those dams that require maintenance and/or repair actions to reduce their danger to human life or property only. It is not intended as professional engineering or consulting advice for conditions or situations present at individual dams. It is not a substitute for a detailed inspection, nor does it replace the need for services provided by registered professional engineers. If your dam is experiencing an unusual situation consult with engineering professionals to find an appropriate remedy. Preliminary inspections conducted by South Carolina Department of Health and Environmental Control (the Department) are provided "AS IS" and "as available", without warranties of any kind, either express or implied. Preliminary inspections consist only of a visual but technical examination of the dam and its appurtenant works. All findings are based solely on visual observations of the inspector at the time of the inspection. Common law holds that the storage of water is a hazardous activity and the Department does not assume any responsibility or risk for your actions or inactions. Dam owners are responsible for the safe operations and maintenance of their impoundment structures.

MCCOLL POND DAM (D0848)
Violation List



Form	Determined	Description	Sec. #
Dams Preliminary Inspection Form	10/1/2018	Reference: DAMMAINTREP	
Dams Preliminary Inspection Form	10/1/2018	Reference: DAMMAINTREP	
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Dams Preliminary Inspection Form	10/1/2018	Reference: DAMMAINTREP	