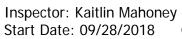
Dams Preliminary Inspection Form



Completed Date: 10/24/2018



Inspection Information			
1. Date of Inspection			09/28/2018
2. Inspectors Present			Kaitlin Mahoney, Thadeous Bach
3. Other Persons Attending Inspec	ction		
Name	Phone		/Engineer/Other
Steve Jordan Carroll Jordan	8438577313	Owner's	s Son
Dam was designed by Army Corp 5 ft pipe	os of Engineers. Owner	will be installing ı	new spillway system with
4. Is this a follow-up inspection?			✓ Yes ☐ No ☐ NA
Observation/Instrumentat	ion		
1. Estimate the current level of th	e water in the reservoir	:	Breached
		GPS Latitude: GPS Longitude: GPS Altitude:	9/28/2018 10:29:51 AM 34.422877777778 -79.9949416666667 50.3711790393013 meters 43.7041198501873 degrees
2. Describe the current weather &	conditions:		Sunny
3. Recent rainfall quantity:			2" or greater
4a. Are Piezometers or Observation	on Wells present?		Yes V No
4b. (If Present:) Condition of Piez	ometers/Observation W	/ells	
5a. Is a Staff Gauge or Recorder p	present?		Yes V No
5b. (If Present:) Condition of Stat	ff Gauge or Recorder		
6a. Are Measurement Weirs Prese	ent?		Yes V No
6b. (If Present:) Condition of Wei	rs:		
7a. Number of Spillways Present			2

Dams Preliminary Inspection Form

Inspector: Kaitlin Mahoney

Start Date: 09/28/2018 Completed Date: 10/24/2018



Observation/Instrumentation

7b. Type of Spillways Present

Stop-Log/Boards,

Earthen

Overflow/Runaround

Primary spillway is flowing

8. Other:

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

Embankment: Crest

Is this section applicable for this dam?

Monitor

Yes No

1. Grass Cover



Photo Taken: 9/28/2018 10:21:31 AM GPS Latitude: 34.4229194444444 GPS Longitude: -79.9949583333333 GPS Altitude: 49.1296023564065 meters GPS Azimuth: 269.134502923977 degrees

2. Deleterious Vegetation

Monitor

Keep vegetation mowed to make it easier to identify problems such as animal activity and erosion.

3. Trees **Action Required**

Remove trees around aux spillway - tree management plan by SC license professional engineer required & permit application

4. Animal Activity Monitor

Looks like a possible beaver slide - monitor and get rid of beavers as necessary

No Deficiency 5. Surface Cracking

6. Horizontal Alignment No Deficiency

7. Settlement No Deficiency

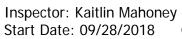
JORDAN POND DAM: D3532 Dams Preliminary Inspection Form



Inspector: Kaitlin Mahoney Start Date: 09/28/2018

Embankment: Crest	
8. Sinkhole	No Deficiency
9. Erosion	Monitor
Breach in aux spillway. Keep an eye out for minor necessary	erosion (less than 12" deep) and fill as
	Photo Taken: 9/28/2018 10:20:53 AM GPS Latitude: 34.4229305555556 GPS Longitude: -79.9948972222222 GPS Altitude: 45.6819727891156 meters GPS Azimuth: 204.73673870334 degrees
10a. Are Alterations/Repairs Present?	Yes V No
10b. (If Present:) Alterations/Repairs Condition	
11. Other:	
12. Embankment: Crest Condition	Needs Permitted Repair(s)
Violation Determined: 9/28/2018 DAMMAINTREP Trees need to be removed	
13. Additional Comments (Refer to item number if 525 ft long	applicable)
Concrete/Masonry Dams: Crest	
Is this section applicable for this dam?	Yes V No
1. Surface Conditions	
2. Horizontal Alignment	
3. Vertical Alignment	
4. Condition of Joints	
5. Unusual Movement	

Dams Preliminary Inspection Form





Concrete/Masonry Dams: Crest	
6a. Are Alterations/Repairs Present?	Yes No
6b. (If Present:) Alterations/Repairs Condition	
7. Other:	
8. Concrete/Masonry Dam Crest Condition	
9. Additional Comments (Refer to item number if app	olicable)
Embankment: Upstream Slope	
Is this section applicable for this dam?	✓ Yes ☐ No
1. Grass Cover	Monitor
One area eroded a bit above spillway - owner will be	e putting in new spillway and will fix area
2. Deleterious Vegetation	Monitor
Keep mowed	Photo Taken: 9/28/2018 10:20:19 AM GPS Latitude: 34.4230416666667 GPS Longitude: -79.99485 GPS Altitude: 44.5800464037123 meters GPS Azimuth: 241.071317829457 degrees
3. Trees	No Deficiency
4. Animal Activity	Investigate
Erosion possibly caused by beaver activity. Get rid o	f beavers as necessary
5. Surface Cracking	No Deficiency
6. Subsidence, Sinkhole	No Deficiency
7. Slide, Slough, Scarp	No Deficiency
8. Groins	No Deficiency

Dams Preliminary Inspection Form





Embankment: Upstream Slope

9. Erosion Action Required

Fix erosion above inlet pipe. Also some erosion around intake



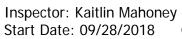
Photo Taken: 9/28/2018 10:20:07 AM GPS Latitude: 34.4231138888889 GPS Longitude: -79.994819444444 GPS Azimuth: 44.3871117292536 meters 337.311643835616 degrees



Photo Taken: 9/28/2018 10:21:07 AM
GPS Latitude: 34.422927777778
GPS Longitude: -79.9948805555556
GPS Altitude: 44.4126213592233 meters
GPS Azimuth: 167.607902735562 degrees

10a. Slope Protection/Armoring Present?	Yes V No
10b. (If Present:) Slope Protection/Armoring	
11a. Alterations/Repairs Present?	Yes V No
11b. (If Present:) Alterations/Repairs Condition	
12. Other:	

Dams Preliminary Inspection Form





Ε	mbankment: Upstream Slope		
	13. Embankment: Upstream Slope Condition		Needs Maintenance
	Violation Determined: 9/28/2018 DAMMAINTREP		
	Some erosion above outlet pipe needs to be addr spillway so this will be fixed	essed. Owner said they will	be replacing the
	14. Additional Comments (Refer to item number in	applicable)	
С	oncrete/Masonry Dams: Upstream Fa	ce	
	Is this section applicable for this dam?		Yes V No
	1. Surface Conditions		
	2. Condition of Joints		
	3. Unusual Movement		
	4. Abutments		
	5a. Alterations/Repairs Present?		Yes No
	5b. (If Present:) Alterations/Repairs Condition		
	6. Other:		
	7. Concrete/Masonry Dams: Upstream Face Condi	tion	
	8. Additional Comments (Refer to item number if a	applicable)	
Ε	mbankment: Downstream Slope		
	Is this section applicable for this dam?		Yes No
	1. Grass Cover		No Deficiency

Dams Preliminary Inspection Form

Inspector: Kaitlin Mahoney

Completed Date: 10/24/2018 Start Date: 09/28/2018



Embankment: Downstream Slope

2. Deleterious Vegetation

Action Required

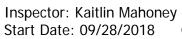
Heavy vegetation on downstream slope. Owner says they spray every 2 years to keep it down

Photo Taken: 9/28/2018 10:25:03 AM GPS Latitude: 34.422822222222 GPS Longitude: -79.9947583333333

GPS Altitude: 49.6213017751479 meters GPS Azimuth: 253.909952606635 degrees

3. Trees	Action Required
Some trees in downstream area	
4. Animal Activity	No Deficiency
5. Surface Cracking	No Deficiency
6. Subsidence, Sinkhole	No Deficiency
7. Slide, Slough, Scarp	No Deficiency
8. Groins	No Deficiency
9. Erosion	Monitor
Minor erosion on downstream slope from beaver activity can be required. Will be fixed when new spillway is installed	pe filled with soil - no permit
10a. Slope Protection/Armoring Present?	Yes V No
10b. (If Present:) Slope Protection Condition	
11. Wet Areas	No Deficiency
12a. Seepage	Yes V No
12b. (If Present): Seepage Flow	
13a. Drainage System Present?	Yes V No
13b. (If Present:) Drainage System Condition	

Dams Preliminary Inspection Form





E	mbankment: Downstream Slope	
	14a. Alterations/Repairs Present?	Yes V No
	14b. (If Present:) Alterations/Repairs Condition	
	15. Other:	
	16. Embankment: Downstream Slope Condition	Needs Maintenance
	Violation Determined: 9/28/2018 DAMMAINTREP	
	Vegetation should be cleared before inspection to be able to observe animal seepage, etc.	activity, erosion,
	17. Additional Comments (Refer to item number if applicable)	
C	concrete/Masonry Dams: Downstream Face	
	Is this section applicable for this dam?	Yes V No
	1. Surface Conditions	
	2. Condition of Joints	
	3. Unusual Movement	
	4. Drains	
	5. Leakage	
	6. Abutments	
	7a. Alterations/Repairs Present?	Yes 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)	
D	Downstream Area	
	Is this section applicable for this dam?	✓ Yes ☐ No
	Is Downstream Area clear?	✓ Yes No

Dams Preliminary Inspection Form

Inspector: Kaitlin Mahoney



Downstream Area

1. Trees Action Required

Trees in downstream area > 4" diameter. Should be investigated by professional engineer to determine if they need to be removed.



Photo Taken: 9/28/2018 10:24:44 AM
GPS Latitude: 34.422711111111
GPS Longitude: -79.9948111111111
GPS Altitude: 68.3587921847247 meters
GPS Azimuth: 46.4429530201342 degrees



Photo Taken: 9/28/2018 10:24:47 AM
GPS Latitude: 34.4228361111111
GPS Longitude: -79.9947805555556
GPS Altitude: 50.0556309362279 meters
GPS Azimuth: 93.6007067137809 degrees

2. Deleterious Vegetation	Monitor	
Keep vegetation mowed		
3. Wet Areas	No Deficiency	
4a. Seepage	Yes Vo	■ NA
4b. (If Present): Seepage Flow		
5a. Boils	Yes Vo	■ NA
5b. (If Present): Boil Flow		
6a. Alterations/Repairs Present	Yes V No	■ NA

Dams Preliminary Inspection Form



Start Date: 09/28/2018 Completed Date: 10/24/2018



Downstream Area

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

7. Other:

8. Downstream Area Condition

Needs Permitted Repair(s)

Violation Determined: 9/28/2018 DAMMAINTREP

Trees in downstream area need to be investigated by PE

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

Sediment has been washed from the auxiliary spillway into the downstream area due to breach. No grass above outlet pipe - monitor for erosion



Photo Taken: 9/28/2018 10:22:08 AM

GPS Latitude: 34.422875

GPS Longitude: -79.9947972222222 GPS Altitude: 46.3192389006342 meters GPS Azimuth: 145.673758865248 degrees



Photo Taken: 9/28/2018 10:27:07 AM GPS Latitude: 34.422755555556 GPS Longitude: -79.9948361111111 GPS Altitude: 49.7587548638132 meters GPS Azimuth: 197.716049382716 degrees

Spillways: Erodible Channel

Is this section applicable for this dam?



Dams Preliminary Inspection Form

Inspector: Kaitlin Mahoney



Spillways:	Erodible	Channel

1. Location

2. Grass Cover No Deficiency

3. Deleterious Vegetation No Deficiency

4. Trees Action Required

Large trees present around aux spillway need to be investigated by PE



Photo Taken: 9/28/2018 10:40:55 AM GPS Latitude: 34.4235638888889 GPS Longitude: -79.9939333333333 GPS Altitude: 50.3493917274939 meters GPS Azimuth: 258.107382550336 degrees

5. Animal Activity	No Deficiency
6. Subsidence, Sinkhole	No Deficiency
7. Slide, Slough, Scarp	No Deficiency
8. Erosion	Action Required

Breach in aux spillway. Trench through dam has eroded out - possibly the cause of the breach. Owner explained that the power company trenched through the dam without his permission and did not have the equipment to properly compact the soil. Any trenching through the dam would require a permit from DHEC, but no permit application was submitted for the work.

Dams Preliminary Inspection Form

Inspector: Kaitlin Mahoney

Spillways: Erodible Channel





Photo Taken: 9/28/2018 10:40:53 AM GPS Latitude: 34.4235638888889 GPS Longitude: -79.9939333333333 GPS Altitude: 50.6053130929791 meters GPS Azimuth: 180.300248138958 degrees

Photo Taken: 9/28/2018 10:41:36 AM
GPS Latitude: 34.423469444444
GPS Longitude: -79.9939111111111
GPS Altitude: 50.7813411078717 meters
GPS Azimuth: 258.621676891616 degrees

Photo Taken: 9/28/2018 10:43:59 AM
GPS Latitude: 34.4230277777778
GPS Longitude: -79.9940416666667
GPS Altitude: 51.6059850374065 meters
GPS Azimuth: 246.963470319635 degrees

Dams Preliminary Inspection Form

Inspector: Kaitlin Mahoney

Spillways: Erodible Channel



Photo Taken: 9/28/2018 10:44:50 AM

GPS Latitude: 34.42295

GPS Longitude: -79.9940861111111 GPS Altitude: 52.19375 meters

GPS Azimuth: 313.7777777778 degrees



Photo Taken: 9/28/2018 10:45:20 AM GPS Latitude: 34.4229666666667 GPS Longitude: -79.9941111111111 GPS Altitude: 52.765407554672 meters GPS Azimuth: 232.416149068323 degrees



Photo Taken: 9/28/2018 10:52:27 AM GPS Latitude: 34.4232305555556 GPS Longitude: -79.994438888889 GPS Altitude: 49.8376123234917 meters GPS Azimuth: 207.384428223844 degrees

Dams Preliminary Inspection Form

Inspector: Kaitlin Mahoney

Widhec

Spillways: Erodible Channel



Photo Taken: 9/28/2018 10:52:30 AM GPS Latitude: 34.4232305555556 GPS Longitude: -79.994444444444 GPS Altitude: 49.9574861367837 meters GPS Azimuth: 230.225806451613 degrees



Photo Taken: 9/28/2018 10:52:41 AM GPS Latitude: 34.4232333333333 GPS Longitude: -79.9944388888889 GPS Altitude: 49.8277858176556 meters GPS Azimuth: 161.469298245614 degrees



Photo Taken: 9/28/2018 10:57:38 AM GPS Latitude: 34.4233388888889 GPS Longitude: -79.9943861111111 GPS Altitude: 49.9263565891473 meters GPS Azimuth: 94.6408450704225 degrees

JORDAN POND DAM: D3532 Dams Preliminary Inspection Form



Inspector: Kaitlin Mahoney

Sta	art Date: 09/28/2018 — Completed Date: 10/24/2018		
S	pillways: Erodible Channel		
	9. Debris	Action Required	d
	Fallen trees in spillway breach		
	10. Flowing?	Yes No	NA
	11a. Alterations/Repairs Present	Yes Vo	■ NA
	11b. (If Present:) Alterations/Repairs Condition		
	12. Other:		
	13. Spillway: Erodible Channel Condition	Needs Permitte Repair(s)	d
	Violation Determined: 9/28/2018 DAMMAINTREP		
	14. Additional Comments (Refer to item number if applicable) Pee Dee Electric Co-Op trenched through emergency spillway to get power appears that the auxiliary spillway has rerouted itself to follow the power lift further out and away from the dam. Breach appears to be caused by trench	ne instead of goir	ng

line, however further investigation by licensed professional engineer may be required to make such determination. The trench is next to the breach, however it seems to have weakened the structure and caused water to flow toward the toe of the dam instead of to the left away from the dam.

A permit and professional engineer will be required for repairs to the spillway

Dams Preliminary Inspection Form

Inspector: Kaitlin Mahoney

Spillways: Erodible Channel







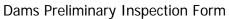
Photo Taken: 9/28/2018 10:40:39 AM GPS Latitude: 34.4235888888889

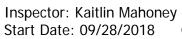
GPS Longitude: -79.99395 GPS Altitude: 50.8353510895884 meters GPS Azimuth: 319.914209115281 degrees

Photo Taken: 9/28/2018 10:50:49 AM
GPS Latitude: 34.4236527777778
GPS Longitude: -79.9940722222222
GPS Altitude: 51.9029850746269 meters

GPS Azimuth: 34.2151675485009 degrees

Photo Taken: 9/28/2018 10:50:56 AM
GPS Latitude: 34.4236416666667
GPS Longitude: -79.9940027777778
GPS Altitude: 52.1128798842258 meters
GPS Azimuth: 206.151162790698 degrees







Spillways: Non-Erodible Channel	
Is this section applicable for this dam?	Yes Vo
1. Location	
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?	Yes No NA
12a. Boils	Yes No NA
12b. (If Present): Boils	
13a. Alterations/Repairs Present	Yes No 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?	Yes No
1. Location	

Dams Preliminary Inspection Form

Spillways: Inlet Structure

Inspector: Kaitlin Mahoney

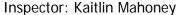
2a. Outlet Structure



2a. Intake Structure No Deficiency Spillway is flowing Photo Taken: 9/28/2018 10:20:03 AM GPS Latitude: 34.4231138888889 GPS Longitude: -79.994819444444 GPS Altitude: 45.9072512647555 meters GPS Azimuth: 359.452991452991 degrees 2b. Intake Structure Types Stop-Log Overflow 3. Trashrack No Deficiency Yes V No 4a. Low-Level Valve Present? 4b. (If Present:) Low-Level Valve Condition 5. Debris No Deficiency Yes V No NA 6a. Repairs/Alterations Present 6b. (If Present:) Alterations/Repairs Condition 7. Other: 8. Spillway: Inlet Structure Condition No Deficiencies Observed 9. Additional Comments (Refer to item number if applicable) Owner stated that he removed boards to lower water level after the breach occurred. They will be putting in new spillway system while the water is down. **Spillways: Outlet Works** Is this section applicable for this dam? Yes No 1. Location

No Deficiency

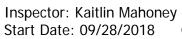
Dams Preliminary Inspection Form





Spillways: Outlet Works 2b. Outlet Structure Type Pipe Photo Taken: 9/28/2018 10:22:21 AM GPS Latitude: 34.4228638888889 GPS Longitude: -79.9947888888889 GPS Altitude: 46.238188976378 meters GPS Azimuth: 135.339622641509 degrees 3. Outlet Pipe No Deficiency 4. Primary Closure/Control No Deficiency 5. Secondary Closure/Control (If Applicable) 6. Unusual Movement No Deficiency Yes 🗹 No 7a. Seepage NA 7b. (If Present): Seepage 8. Stilling Basin No Deficiency 9. Normal Flow Quantity No Deficiency 10. Low-Level Flow Quantity No Deficiency Yes V No 11a. Alterations/Repairs Present NA 11b. (If Present:) Alterations/Repairs 12. Other: Monitor Monitor sediment on top of outlet pipe for erosion. Fill with soil as needed 13. Outlet Works Condition No Deficiencies Observed 14. Additional Comments (Refer to item number if applicable) Outlet appears to be in good condition. Please monitor soil above pipe for erosion. It is recommended that you plant grass as erosion protection.

Dams Preliminary Inspection Form



Completed Date: 10/24/2018



_	· · · · ·			
	ergency Action Plan			
Is	this section applicable for this dam?	Yes No		
1.	Date of last update of emergency plan:			
2a	. EAP provided by owner?	Yes Vo	■ NA	
	o. (If EAP was not provided, was a copy of the EAP form left with the vner?)	Yes V No	■ NA	
3.	Does EAP contain emergency alert plan?	Yes No	✓ NA	
	Does EAP contain specific actions to take if the dam has failed or is iling?	Yes No	✓ NA	
	Additional Comments (Refer to item number if applicable) No EAP was provided at this inspection			
Dov	vnstream Hazard Check			
1.	Satellite Imagery	Yes No	NA	
	Photo Taken:	10/24/2018 1:56:06 PM		
2.	Inundation Map	Yes No	NA	
3.	Structures/Developments	Yes No	NA	
Inundation map shows possible homes located within the inundation area				
4.	Roads/Railways	Yes No	NA	
Possible overtopping of highway 15 and North Center Rd				
5.	Utilities	Yes V No	■ NA	
6.	Consider For Reclass?	Yes No	■ NA	
Consider reclass to High Hazard based on home(s) and road(s) located in inundation area				

Dams Preliminary Inspection Form

Inspector: Kaitlin Mahoney



Downstream Hazard Check

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

Inspection Summary

1. Overall Condition (*Per National Inventory of Dams Definition)

Not Rated

Not rated due to breach in dam. Other issues not as major - permit required for large tree removal as well as fixing the breach. Permit will also be required for new spillway system when the owner decides to put it in. Maintenance items include keeping vegetation down and fixing minor erosion problems on slopes from beaver activity (to be fixed when new spillway system is installed). Animal (beaver) activity should be monitored and addressed as needed.

-----NID Definitions-----

(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.

(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.

(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.

(UNSATISFACTORY) A dam safety deficiency is recognized that requires immediate

or emergency remedial action for problem resolution.

(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.

3. Final Comments

Dams Preliminary Inspection Form

Inspector: Kaitlin Mahoney



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.

JORDAN POND DAM (D3532)



Violation List

Form	Determined	Description	Sec. #
Dams Preliminary Inspection Form	9/28/2018	Reference: DAMMAINTREP	
'		Trees need to be removed	
Dams Preliminary Inspection Form	9/28/2018	Reference: DAMMAINTREP	
.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Some erosion above outlet pipe needs to be addressed. Owner said they will be replacing the spillway so this will be fixed	
Dams Preliminary Inspection Form	9/28/2018	Reference: DAMMAINTREP	
		Vegetation should be cleared before inspection to be able to observe animal activity, erosion, seepage, etc.	
Dams Preliminary Inspection Form	9/28/2018	Reference: DAMMAINTREP	
		Trees in downstream area need to be investigated by PE	
Dams Preliminary Inspection Form	9/28/2018	Reference: DAMMAINTREP	

10/24/2018 11:21 AM 23