

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Inspection Information		
1. <i>Date of Inspection</i>		09/26/2018
2. <i>Inspectors Present</i>		Hannah Vinson
3. <i>Other Persons Attending Inspection</i>		
Name	Phone	Owner/Engineer/Other
Eddie Caulder	910-417-7966	Owner
4. <i>Is this a follow-up inspection?</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
Observation/Instrumentation		
1. <i>Estimate the current level of the water in the reservoir:</i>		Below Normal Pool
2. <i>Describe the current weather & conditions:</i>		Sunny 90 degrees
3. <i>Recent rainfall quantity:</i>		None
4a. <i>Are Piezometers or Observation Wells present?</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
4b. <i>(If Present:) Condition of Piezometers/Observation Wells</i>		
5a. <i>Is a Staff Gauge or Recorder present?</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
5b. <i>(If Present:) Condition of Staff Gauge or Recorder</i>		
6a. <i>Are Measurement Weirs Present?</i>		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
6b. <i>(If Present:) Condition of Weirs:</i>		
7a. <i>Number of Spillways Present</i>		1

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Observation/Instrumentation

7b. Type of Spillways Present

Weir (Ogee, Labyrinth, etc)



Photo Taken: 9/26/2018 11:48:45 AM
GPS Latitude: 34.737555277778
GPS Longitude: -79.7997583333333
GPS Altitude: 41.4931271477663 meters
GPS Azimuth: 46.5940246045694 degrees



Photo Taken: 9/26/2018 11:58:13 AM
GPS Latitude: 34.7375638611111
GPS Longitude: -79.7996833055555
GPS Altitude: 45.6667748215445 meters
GPS Azimuth: 13.9567251461988 degrees

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form

Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018



Observation/Instrumentation	
8. Other:	Action Required
<p>Violation Determined: 9/26/2018</p> <p>Dam breached during Hurricane Florence.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 45%;"> <p>Photo Taken: 9/26/2018 11:25:28 AM GPS Latitude: 34.7375555277778 GPS Longitude: -79.7995527777778 GPS Altitude: 38.2229885057471 meters GPS Azimuth: 252.729927007299 degrees</p> </div> </div>	
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	
1. Grass Cover	No Deficiency
<p>Asphalt road on crest</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 45%;"> <p>Photo Taken: 9/26/2018 11:04:19 AM GPS Latitude: 34.7377666666667 GPS Longitude: -79.7986610833333 GPS Altitude: 37.7762096774194 meters GPS Azimuth: 248.458598726115 degrees</p> </div> </div>	
2. Deleterious Vegetation	No Deficiency
3. Trees	No Deficiency
4. Animal Activity	No Deficiency

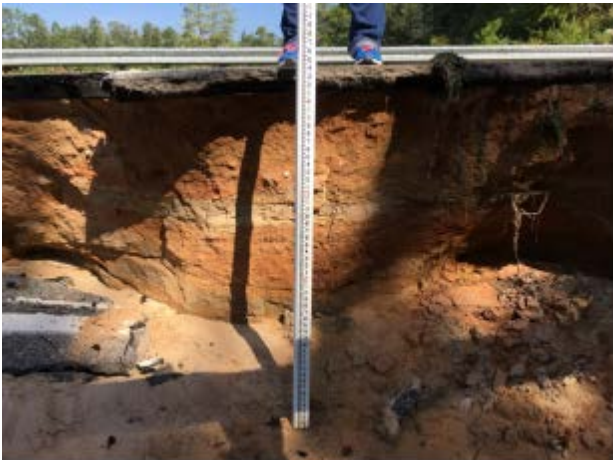

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Embankment: Crest	
5. <i>Surface Cracking</i>	Action Required
6. <i>Horizontal Alignment</i>	No Deficiency, Action Required
7. <i>Settlement</i>	Action Required
8. <i>Sinkhole</i>	Action Required
9. <i>Erosion</i>	Action Required
<p>Erosion over 4' deep. Caused by overtopping during Hurricane Florence.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 45%;"> <p>Photo Taken: 9/26/2018 11:06:30 AM GPS Latitude: 34.7376638611111 GPS Longitude: -79.7988666388889 GPS Altitude: 37.0837988826816 meters GPS Azimuth: 340.368055555556 degrees</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;">  </div> <div style="width: 45%;"> <p>Photo Taken: 9/26/2018 11:17:23 AM GPS Latitude: 34.7376666666667 GPS Longitude: -79.7989666666667 GPS Altitude: 34.5409482758621 meters GPS Azimuth: 252.930205949657 degrees</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>	
11. <i>Other:</i>	Action Required

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Embankment: Crest	
12. <i>Embankment: Crest Condition</i>	Needs Permitted Repair(s)
<div style="border: 1px solid black; padding: 5px;"> Violation Determined: 10/5/2018 DAMMAINTREP </div>	
13. <i>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
1. <i>Surface Conditions</i>	
2. <i>Horizontal Alignment</i>	
3. <i>Vertical Alignment</i>	
4. <i>Condition of Joints</i>	
5. <i>Unusual Movement</i>	
6a. <i>Are Alterations/Repairs Present?</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No
6b. <i>(If Present:) Alterations/Repairs Condition</i>	
7. <i>Other:</i>	
8. <i>Concrete/Masonry Dam Crest Condition</i>	
9. <i>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
1. <i>Grass Cover</i>	Action Required


McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form

Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018



Embankment: Upstream Slope	
<i>2. Deleterious Vegetation</i>	Action Required
Small bushes and tall grass (laid down due to overtopping)	
	Photo Taken: 9/26/2018 11:13:48 AM GPS Latitude: 34.7377694444444 GPS Longitude: -79.7988888611111 GPS Altitude: 38.2478873239437 meters GPS Azimuth: 245.433656957929 degrees
<i>3. Trees</i>	No Deficiency
<i>4. Animal Activity</i>	No Deficiency
<i>5. Surface Cracking</i>	No Deficiency
<i>6. Subsidence, Sinkhole</i>	No Deficiency
<i>7. Slide, Slough, Scarp</i>	No Deficiency
<i>8. Groins</i>	No Deficiency
<i>9. Erosion</i>	Action Required
<i>10a. Slope Protection/Armoring Present?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>10b. (If Present:) Slope Protection/Armoring</i>	
<i>11a. Alterations/Repairs Present?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<i>11b. (If Present:) Alterations/Repairs Condition</i>	
<i>12. Other:</i>	Action Required
<i>13. Embankment: Upstream Slope Condition</i>	Needs Maintenance, Condition Prevented Full Inspection
Violation Determined: 10/5/2018 DAMMAINTREP	
<i>14. Additional Comments (Refer to item number if applicable)</i>	

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Concrete/Masonry Dams: Upstream Face

Is this section applicable for this dam?

Yes 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 Condition

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

Embankment: Downstream Slope

Is this section applicable for this dam?

Yes No

1. Grass Cover

Action Required



Photo Taken: 9/26/2018 11:05:04 AM
 GPS Latitude: 34.7376638611111
 GPS Longitude: -79.7988055555556
 GPS Altitude: 37.7702265372168 meters
 GPS Azimuth: 255.016393442623 degrees

2. Deleterious Vegetation

Monitor

3. Trees

No Deficiency

4. Animal Activity

No Deficiency

5. Surface Cracking

Action Required

6. Subsidence, Sinkhole

Action Required

7. Slide, Slough, Scarp

Action Required


McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Embankment: Downstream Slope	
8. Groins	No Deficiency
9. Erosion	Action Required
<div style="display: flex; align-items: flex-start;">  <div style="margin-left: 20px;"> <p>Photo Taken: 9/26/2018 11:05:23 AM GPS Latitude: 34.7376555277778 GPS Longitude: -79.7987888888889 GPS Altitude: 38.5911214953271 meters GPS Azimuth: 239.971264367816 degrees</p> </div> </div>	
10a. Slope Protection/Armoring Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
10b. (If Present:) Slope Protection Condition	
11. Wet Areas	No Deficiency
Probable swampy area below dam. Condition prevented inspection.	
12a. Seepage	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
12b. (If Present): Seepage Flow	
13a. Drainage System Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
13b. (If Present:) Drainage System Condition	
14a. Alterations/Repairs Present?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
14b. (If Present:) Alterations/Repairs Condition	
15. Other:	Action Required
16. Embankment: Downstream Slope Condition	Needs Permitted Repair(s), Condition Prevented Full Inspection
<div style="border: 1px solid black; padding: 5px;"> <p>Violation Determined: 10/5/2018 DAMMAINTREP</p> </div>	
17. Additional Comments (Refer to item number if applicable)	


McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Concrete/Masonry Dams: Downstream Face	
<i>Is this section applicable for this dam?</i>	<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	
<i>Is this section applicable for this dam?</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>Is Downstream Area clear?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<p>Downstream area contains trees and swamp. Condition prevented inspection.</p> <div style="display: flex; align-items: flex-start;">  <div style="margin-left: 20px;"> <p>Photo Taken: 9/26/2018 11:05:04 AM GPS Latitude: 34.7376638611111 GPS Longitude: -79.7988055555556 GPS Altitude: 37.7702265372168 meters GPS Azimuth: 255.016393442623 degrees</p> </div> </div>	
1. Trees	Action Required
2. Deleterious Vegetation	Action Required

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Downstream Area	
3. <i>Wet Areas</i>	No Deficiency
<input type="text" value="Probable swamp area. Condition prevented full inspection."/>	
4a. <i>Seepage</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
4b. <i>(If Present): Seepage Flow</i>	
5a. <i>Boils</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> NA
5b. <i>(If Present): Boil Flow</i>	
6a. <i>Alterations/Repairs Present</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
6b. <i>(If Present:) Alterations/Repairs Condition</i>	
7. <i>Other:</i>	
8. <i>Downstream Area Condition</i>	Needs Maintenance, Condition Prevented Full Inspection
<input type="text" value="Violation Determined: 10/5/2018
DAMMAINTREP"/>	
9. <i>Additional Comments (Refer to item number if applicable)</i>	
Spillways: Erodible Channel	
<i>Is this section applicable for this dam?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1. <i>Location</i>	
2. <i>Grass Cover</i>	
3. <i>Deleterious Vegetation</i>	
4. <i>Trees</i>	
5. <i>Animal Activity</i>	
6. <i>Subsidence, Sinkhole</i>	
7. <i>Slide, Slough, Scarp</i>	
8. <i>Erosion</i>	
9. <i>Debris</i>	
10. <i>Flowing?</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
11a. <i>Alterations/Repairs Present</i>	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
11b. <i>(If Present:) Alterations/Repairs Condition</i>	

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Spillways: Erodible Channel	
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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
1. Location	
2. Approach Area	Action Required
3. Weir/Control	Action Required
4. Sidewalls	Action Required
5. Channel Floor	
6. Condition of Joints	
7. Surface Condition	
8. Unusual Movement	
9. Discharge Channel	No Deficiency
10. Debris	
11. Flowing?	<input checked="" 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:	Action Required
15. Spillway: Non-Erodible Channel Condition	Needs Permitted Repair(s), Emergency Order Requested, Condition Prevented Full Inspection
<div style="border: 1px solid black; padding: 5px;"> Violation Determined: 9/26/2018 DAMMAINTREP </div>	
16. Additional Comments (Refer to item number if applicable)	


McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form

Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018



Spillways: Inlet Structure	
<i>Is this section applicable for this dam?</i>	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
<i>1. Location</i>	
<i>2a. Intake Structure</i>	Action Required
<i>2b. Intake Structure Types</i>	Other (Explain In Comments)
<p>Bridge over weir type spillway.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">  </div> <div style="width: 45%;"> <p>Photo Taken: 9/26/2018 11:48:45 AM GPS Latitude: 34.7375555277778 GPS Longitude: -79.7997583333333 GPS Altitude: 41.4931271477663 meters GPS Azimuth: 46.5940246045694 degrees</p> </div> </div> <div style="display: flex; justify-content: space-between; margin-top: 10px;"> <div style="width: 45%;">  </div> <div style="width: 45%;"> <p>Photo Taken: 9/26/2018 11:58:13 AM GPS Latitude: 34.7375638611111 GPS Longitude: -79.7996833055555 GPS Altitude: 45.6667748215445 meters GPS Azimuth: 13.9567251461988 degrees</p> </div> </div>	
<i>3. Trashrack</i>	Not Present
<i>4a. Low-Level Valve Present?</i>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
<i>4b. (If Present:) Low-Level Valve Condition</i>	
<i>5. Debris</i>	No Deficiency

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Spillways: Inlet Structure	
6a. Repairs/Alterations Present	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Prior to the arrival of Hurricane Florence, owner removed a portion of the metal pieces acting as water level control in order to lower the water level.	
6b. (If Present:) Alterations/Repairs Condition	
7. Other:	
8. Spillway: Inlet Structure Condition	Needs Permitted Repair(s)
Violation Determined: 10/5/2018 DAMMAINTREP	
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
1. Location	
2a. Outlet Structure	Action Required
2b. Outlet Structure Type	Chute
3. Outlet Pipe	
4. Primary Closure/Control	
5. Secondary Closure/Control (If Applicable)	
6. Unusual Movement	Action Required
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:	Action Required

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Spillways: Outlet Works

13. Outlet Works Condition

Needs Permitted Repair(s), Emergency Order Requested, Condition Prevented Full Inspection

**Violation Determined: 9/26/2018
DAMMAINTREP**

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

Emergency 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 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: 10/5/2018 4:48:00 PM



2. Inundation Map

Yes No NA

3. Structures/Developments

Yes No NA

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form

Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018



Downstream Hazard Check	
4. Roads/Railways	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Only hazard appears to be road across dam.	
5. Utilities	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> NA
6. Consider For Reclass?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> NA
Under current regulations, dam may be considered for exemption.	
7. Additional Comments (Refer to item number if applicable)	

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

McMEEKIN POND DAM : D3430

Dams Preliminary Inspection Form



Inspector: Hannah Vinson

Start Date: 09/26/2018 Completed Date: 10/05/2018

Inspection Summary

3. Final Comments

Dam is breached to left of spillway.

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.

McMEEKIN POND DAM (D3430)
Violation List



Form	Determined	Description	Sec. #
Dams Preliminary Inspection Form	9/26/2018	Other: Action Required Dam breached during Hurricane Florence.	
Dams Preliminary Inspection Form	10/5/2018	Reference: DAMMAINTREP	
Dams Preliminary Inspection Form	10/5/2018	Reference: DAMMAINTREP	
Dams Preliminary Inspection Form	10/5/2018	Reference: DAMMAINTREP	
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Dams Preliminary Inspection Form	9/26/2018	Reference: DAMMAINTREP	
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Dams Preliminary Inspection Form	9/26/2018	Reference: DAMMAINTREP	