



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

October 5, 2015

Karen Allen
Cherokee County Soil and Water Conservation District
1252 Overbrook Dr, Ste 1B
Gaffney SC 29341

Re: Reinspection of Dam D-0009,
Thicketty Creek WCD #26 Lake Thicketty Dam, Cherokee County

Dear Ms Allen:

On August 27, 2015 a routine reinspection of the Thicketty Creek WCD #26, Lake Thicketty Dam was performed. I am enclosing a copy of the inspection report. The following deficiencies were noted:

- The dam needs to be mowed and cleared of brush.

This dam is given an overall Satisfactory assessment. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: David Graves – Dams and Reservoir Safety, BW



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D 0009 & Hazard Class C2 B. Name of Dam: Lake Thicketty Dam
C. Inspection Date (08 / 27 / 20 15) & Time: 12:00 D. Date of Last Inspection: (11 / 21 / 2012)
E. Location-County/City: Cherokee / Gaffney F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name: Cherokee County Soil and Water Conservation District
I. Contact Person (if different from above): Karen Allen
J. Dam Owner's or Contact Person's Phone Numbers: Home () -
Office (864) 489 - 7150
Other () -
K. Dam Owner's or Contact Person's mailing address:
Address 1 1252 Overbrook Dr, Ste 1B
Address 2 (optional) _____
City Gaffney State SC Zip Code 29341 - _____

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass, some brush near midpoint.
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, brush, trees. Needs to be cleared.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? Yes - clear
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Minor seep noted near outlet pipe.

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Ok

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? On file

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes - 11/29/2012

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Dam condition ok. Needs to be cleared of brush and trees.

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.



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

May 12, 2015

Mr. Jay Squires
Spartanburg County
Post Office Box 1749
Spartanburg, South Carolina 29304

Re: Reinspection of Dam D-0032, Duncan Park Lake Dam, Spartanburg County

Dear Mr. Squires:

On April 24, 2015, I conducted a routine reinspection of the Duncan Park Lake Dam.

I am enclosing a copy of my inspection report on the dam. Overall, the dam appears in Fair condition, and your existing maintenance program should continue. In addition, a tree removal plan should be developed and implemented for this dam.

A copy of the Emergency Notification Plan is in our file, but is significantly outdated. Should the dam experience difficulty, the appropriate emergency officials should be notified. A copy of DHEC Form 2606 is enclosed. Please complete and return this form, along with the tree removal plan, within 90 days of receipt of this letter.

Please let me know if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: John Poole – Facilities Compliance Section, BW, w/inspection report



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D 0032 & Hazard Class C2 B. Name of Dam: Duncan Park Dam
C. Inspection Date (04 /24 /20 15) & Time: 12:30 D. Date of Last Inspection: (03 /13 / 2009)
E. Location-County/City: Spartanburg / Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name: City of Spartanburg
I. Contact Person (if different from above): Jay Squires
J. Dam Owner's or Contact Person's Phone Numbers: Home () -
Office (864) 596 - 2089
Other (864) 809 - 0278
K. Dam Owner's or Contact Person's mailing address:
Address 1 PO Box 1749
Address 2 (optional) _____
City Spartanburg State SC Zip Code 29304 -

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

i. Vegetation (grass, trees weeds)? Paved, OK
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Brush along waterline needs to be cleared away. Trees larger than 4" in diameter need to addressed in tree removal plan.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Covered with kudzu but maintained. Some brush needs to be cleared; trees larger than 4" in diameter need to be addressed in tree removal plan.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No toe drains.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Some seepage near toe of dam, clear flow, should be monitored.

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Could not locate.
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? No

vi. If applicable, any visible leakage below concrete spillway? No

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Needs updating.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Dam is in overall fair condition. Dam is relatively well-maintained given its age. The large trees on the dam require the development of a tree removal plan. The seepage at the toe of the dam is not mentioned in previous inspections and should be monitored.

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.



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

May 26, 2015

James Ness
324 Webber Rd
Cowpens SC 29330

Re: Reinspection of Dam D-1416,
Sunny Slopes Farm Dam, Cherokee County

Dear Mr. Ness:

On April 27, 2015 a routine reinspection of the Sunny Slopes Farm Dam was performed. I am enclosing a copy of the inspection report. The following deficiencies were noted:

-The dam needs to be cleared of brush and trees smaller than 4 inches in diameter. Once the dam is cleared, an assessment should be made by a Professional Engineer to determine the status of the dam. The assessment should include a tree removal plan for trees larger than 4 inches in diameter.

-There is considerable evidence of beaver activity on and around the dam. This activity should be controlled, and the stumps left by the beaver should be addressed in the assessment.

-An emergency plan should be developed for the dam. I am enclosing a copy of DHEC Form 2606. Please complete and return this form to this office.

This dam is given an overall Fair assessment. Please complete the requested items and submit to this office within 90 days of date of this letter. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: John Poole, P.E. – Dams and Reservoir Safety, BW



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 1416 & Hazard Class C2 B. Name of Dam: Sunny Slopes Farms Dam
C. Inspection Date (04/27/2015) & Time: 12:45 D. Date of Last Inspection: (12/16/2012)
E. Location-County/City: Cherokee / Cowpens F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name: James Ness
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 490 - 1293
Office () -
Other (864) 490 - 2209
K. Dam Owner's or Contact Person's mailing address:
Address 1 324 Webber Rd
Address 2 (optional)
City Cowpens State SC Zip Code 29330 -

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grassed, OK
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Overgrown with brush and large trees.
- ii. Animal activity observed? Yes, several trees downed by beaver.
- iii. Any obvious alterations or repairs made? no
- iv. Erosion observed on upstream slope? no
- v. Settlement or cracks visible in slope? no

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Overgrown with brush and large trees.
- ii. Animal activity observed? Yes, several trees downed by beaver.
- iii. Any obvious alterations or repairs made? no
- iv. Erosion observed on down stream slope? no
- v. Settlement or cracks visible in slope? no
- vi. Toe drains flowing? no toe drains
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: yes, seepage at toe of dam, midway across, flowing clear.

D. Primary Spillway

- i. Any visible deterioration of structure? no
- ii. Is there an obvious need to repair or replace trash rack? no
- iii. Any noticeable problems with debris? A lot of accumulated debris, trash rack needs to be cleared.
- iv. Is valve or gate present? Not visible

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: OK
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? OK
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification?

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Need updated EAP.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated?

iii. Does EAP contain specific actions to take if the dam has failed or is near failure?

Section IV (Conclusions)

General comments and recommendations:

-Dam needs to be cleared of brush and an assessment made of trees on the dam.

-Beaver activity needs to be controlled.

-Emergency plan needs to be completed and returned to DHEC.

Preliminary Dam Inspection Disclaimer:

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**S. C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
DAMS AND RESERVOIRS SAFETY PROGRAM
SURVEILLANCE PLAN AND EMERGENCY NOTIFICATION PLAN**

----- DAM, D .

----- County

AS OWNER MANAGER OPERATOR (Please Check One)

Of the above reference dam, the person(s) named below are responsible for safe maintenance and operation of the above dam and reservoir and are responsible for implementing the following Surveillance Plan and the following Emergency Notification Plan:

SURVEILLANCE PLAN

Visual inspections will be performed frequently to detect any major changes, which may endanger the dam such as settlement, erosion, cracking and earth movement. Evidence of seepage on the downstream slope, at the toe and downstream from the toe, will be monitored to detect any increase in flow or movement of soil particles. The Dams and Reservoirs Safety District Engineer, Greg Harrington at 803-285-7461 will be notified if any of the above symptoms are found.

EMERGENCY NOTIFICATION PLAN

In the event a major flood or hurricane is forecast, the dam will be monitored, and if the dam appears to be in danger from overtopping or if failure appears imminent because of other problems, the following state and local officials will be notified and the dam will be kept under constant surveillance until the proper authorities arrive to protect the general public.

1.	South Carolina Highway Patrol	-----
2.	Local Highway Maintenance Engineer	-----
3.	Local Police Department, Emergency Preparedness personnel, and other county or town officials	-----
4.	S.C. Department of Health and Environmental Control, Columbia, SC	-----

Additionally, the dam owner or his representative will notify the following downstream property owners. (This space is provided for the dam owner or his representative to complete, as this is his responsibility under the S. C. Dams and Reservoirs Safety Act Regulations.)

Person(s) responsible for implementing Surveillance Plan and Emergency Notification Plan:

NAME:	DATE:	TELEPHONE:

ENGINEERS EXPERIENCED IN
DAM DESIGN WORK

Stephen L. Whitesides, PE
CDM
5400 Glenwood Ave, Suite 300
Raleigh, NC 27612
(919)325-3556

Schnabel Engineering
104 Corporate Blvd Suite 410
W. Columbia, SC 29169
(803) 796-6240

William A. Timmons, PE
16-C North Brooks St
PO Box 927
Manning, SC
(803) 435-2647

Hass & Hildebrand, Inc.
33 Greenville St SW
P. O. Box 3276
Aiken, SC 29802
(803)649-1316

H. Grady Adkins, Jr., P.E.
Southeast Regional Office
Paul C. Rizzo Associates, Inc.
101 Westpark Boulevard, Suite B
Columbia, SC 29210
(803) 750-9773 x 12
FAX (803) 750-9116

Dan Creed, P.E.
Heritage Engineering, Inc.
10719 Wilson Blvd.
Blythewood, SC 29016
(803) 714-9632

Law Engineering & Envir. Svcs
720 Gracern Road
Columbia, SC 29201
(803)798-1200

Howard Leonard, P.E.
Peritus Civil
18 Pimlico Court
P. O. Box 16146
Greenville, SC 29607
(864) 288-5312

Pat Gambill
WK Dickson & Co, Inc.
1001 Pinnacle Pt Dr, Suite 110
Columbia, SC 29223
Office (803) 786-4261

Piedmont Olsen Hensley
420 Park Avenue
P. O. Box 1717
Greenville, SC 29602
(864)242-1717

Chao and Assoc., Inc.
3936 Sunset Boulevard
West Columbia, SC 29169
(803) 791-8420

Gene Dobbins (Thomas Eugene Dobbins)
200 E Camperdown Way
Suite 200 B
Greenville, SC
864-467-0811

William C. Cooper, P.E.
Consulting Engineer
1713-B Woodcreek Farms Road
Elgin, SC 29045
(803)699-7728

Don Worley, P.E.
Matrix Engineering
912 South Pine Street
Spartanburg, SC 29302
(864) 583-6274

S&ME
301 Zima Park Drive
Spartanburg, SC 29301
(864) 574-2360

Note: This list is furnished as a courtesy only. Firms listed here have successfully designed new or repair projects for dams. The inclusion of any firm on this list is not an endorsement of that firm. Likewise, failure to include any firm on this list does not mean the firm is not qualified to do design work on dams.



South Carolina Department of Health and Environmental Control

December 12, 2013

Valerie Green
AMI Kids – White Pines
742 T Bishop Road
Jonesville, SC 29353

Re: Inspection of **Dam D-2149, White Pines Dam**, Union County

Ms. Green:

As you recall, on December 5, 2013, I conducted a routine inspection of the White Pines dam near Jonesville. I am enclosing a copy of my inspection report of the dam. The overall condition of the dam was **poor**.

As you observed with me, the emergency spillway has become the primary discharge. The traditional outlet pipe discharge could not be located. This condition is likely due to beaver activity. A beaver pond was observed below where the outlet pipe should be located. Additional beaver activity (slides and tree gnawing) was observed of the slopes and crest of the dam. The emergency spillway is not designed to handle continuous flow. The crest of the spillway is completely saturated making vehicle access to the dam more difficult each day. Likewise the spillway channel is becoming scoured and eroding. Lastly, trees were observed on both faces of the dam. Tree roots can become a pathway for water seeping through the dam.

Trees with diameters of less than 6 inches should be removed from both slopes. Remove the beavers, drain the small beaver pond below the dam, stabilize the emergency spillway and open any blockages of the primary outlet pipe.

We do not have an updated copy of your emergency alert notification plan on file. Please complete the notification plan sheets enclosed and return one to us. Should this dam experience difficulty and be endanger of failing, the agencies listed on the notification plan could provide assistance in doing this.

Corrections should be performed within ninety (90) days from the receipt of this letter. These corrections are required by the Dams and Reservoirs Safety Act Regulations R. 72-4. Failure to perform these corrections is a direct violation of the Dams and Reservoirs Safety Act, Article 3, Section 49-11-260 and subsequent penalties. Contact me when the corrections have been made. If you have any questions, please call me at 864-596-3800.

Sincerely,
James West

James West
SC DHEC - Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg – District Engineer



Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9

Section I (Owner's Information)

- A. Dam Number: D 2149 & Hazard Class 2 B. Name of Dam: White Pines
C. Inspection Date 1/15/2013 & Time: 2:30 D. Date of Last Inspection: 1/12/2010
E. Location-County/City: Union / Jonesville F. EQC Regional Office: Spartanburg
G. Inspector's Name: _____
H. Owner's Name: AMI Kids - White Pines
I. Contact Person (if different from above): Valerie Green, Business Mgr
J. Dam Owner's or Contact Person's Phone Numbers: Home () _____
Office (864) 674-0458
Other () _____
K. Dam Owner's or Contact Person's mailing address:
Address 1 742 T Bishop Rd
Address 2 (optional) _____
City Jonesville State SC Zip Code 29353

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, weeds, bushes, a few trees
- ii. Animal activity observed? Couple of beaver slides
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Weeds and trees
- ii. Animal activity observed? Beaver slides
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No drains found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes - significant seepage on the left toe slope

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No trash rack
- iii. Any noticeable problems with debris? Pipe opening appears to have been partially clogged by beavers
- iv. Is valve or gate present? No

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No pipe found but water must be going thru because of beaver pond
- ii. Describe any deflection or damage observed to the pipe: None but outlet not observable
- iii. Visible condition of outlet channel: Covered by a beaver pond

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Water creating its own
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? Yes - the water is causing erosion of the channel
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? NO

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes but out of date Nov. 1955

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

The beavers must be removed. Open up the clogged outlet pipe. Bust the beaver dam. Repair and stabilize the Emergency spillway channel.

James West

Preliminary Dam Inspection Disclaimer:

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**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 2175 & Hazard Class C2 B. Name of Dam: Manning Pond Dam
C. Inspection Date (10/07/2015) & Time: 15:45 D. Date of Last Inspection: (06/28/2012)
E. Location-County/City: Spartanburg / Inman F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name: Harvey Parnell
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 472-2926
Office () - - - - -
Other () - - - - -
K. Dam Owner's or Contact Person's mailing address:
Address 1 6030 New Cwt Rd.
Address 2 (optional)
City Inman State SC Zip Code 29349

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [X] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Brush, trees
ii. Animal activity observed? no
iii. Any obvious alteration or repairs made? no
iv. Erosion noticed on crest? no
v. Any visible settlement, misalignment or cracks? no

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? brushy trees
- ii. Animal activity observed? no
- iii. Any obvious alterations or repairs made? no
- iv. Erosion observed on upstream slope? no
- v. Settlement or cracks visible in slope? no

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? trees, brush
- ii. Animal activity observed? no
- iii. Any obvious alterations or repairs made? no
- iv. Erosion observed on down stream slope? no
- v. Settlement or cracks visible in slope? no
- vi. Toe drains flowing? no toe drains
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: none

D. Primary Spillway

- i. Any visible deterioration of structure? no
- ii. Is there an obvious need to repair or replace trash rack? no
- iii. Any noticeable problems with debris? no
- iv. Is valve or gate present? yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? no
- ii. Describe any deflection or damage observed to the pipe: none
- iii. Visible condition of outlet channel: ok

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? overgrown w/ brushy trees
- ii. Animal activity observed? no
- iii. Any noticeable deterioration in the approach or discharge channel? no
- iv. Any visible deterioration of structure's crest? no

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? no

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? yes- 7-19-12

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? yes

Section IV (Conclusions)

General comments and recommendations:

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.



South Carolina Department of Health and Environmental Control
CERTIFIED MAIL

December 17, 2013

Donnie Ray ETAL
P.O. Box 278
Jonesville, SC 29353

Re: Inspection of **Dam D-2304**, Bogan Pond Dam, Union County

Mr. Ray:

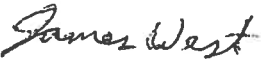
On December 12, 2013, SC DHEC conducted a routine inspection of your dam located near Jonesville. The dam is in **poor** condition. I am enclosing a copy of the inspection report of the dam.

There is no trash rack on the primary outlet riser. The outlet pipe is clogged with a basketball. When the outlet pipe cannot function or is overwhelmed, the water is supposed to flow through your emergency spillway pipe. There are several small trees in front of the spillway pipe. More importantly the end of the pipe is virtually completely buried. Open both pipes and install a trash rack. Trees were observed on both faces of the dam. Trees can become a serious problem for dams; including providing a pathway for water seepage through the dike. We recommend removal of all trees less than 6" and monitoring the slope for seepage due to the older trees. Additionally ruts on the dam crest should be filled.

We do not have an up to date copy of your emergency alert notification plan on file. Please complete the enclosed plan and return it. Should this dam experience difficulty the agencies listed on the notification plan could provide assistance.

Corrections should be performed within ninety (90) days from the receipt of this letter. These corrections are required by the *Dams and Reservoirs Safety Act Regulations R. 72-4*. Failure to perform these corrections is a direct violation of the Dams and Reservoirs Safety Act, Article 3, Section 49-11-260 and subsequent penalties. Contact Florence Hall or myself when the corrections have been made. If you have any questions, please call me at 864-596-3800.

Sincerely,

James West 
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, Spartanburg EQC – District Engineer



Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D2304 & Hazard Class 2 B. Name of Dam: Bogan Pond
C. Inspection Date (12/20/2010) & Time: 2:30 D. Date of Last Inspection: (12/20/2010)
E. Location-County/City: Union / Jonesville F. EOC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Robert Bogan
I. Contact Person (if different from above): Donnie Ray Etal (Trustee)
J. Dam Owner's or Contact Person's Phone Numbers: Home () - - - -
Office () - - - -
Other () - - - -
K. Dam Owner's or Contact Person's mailing address:
Address 1 P.O. Box 278
Address 2 (optional) _____
City Jonesville State SC Zip Code 29359

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass, weeds, bare - with ruts
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? Ruts from vehicles

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Trees
- ii. Animal activity observed? old beaver activity
- iii. Any obvious alterations or repairs made? Yes - Rip rap put in eroded areas for stabilization. May have been associated with beavers.
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? Yes - ditch not far from SS pipe
- v. Settlement or cracks visible in slope? Yes - likely the depressions are due to all the trees
- vi. Toe drains flowing? None Found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes

D. Primary Spillway

- i. Any visible deterioration of structure? None at riser
- ii. Is there an obvious need to repair or replace trash rack? There is no TR
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? No

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: End of pipe has been broken / Ball in pipe
- iii. Visible condition of outlet channel: channel meanders through the woods to a creek

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Yes - back end of emergency spillway pipe is clogged
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? Trees at front end of pipe
- iv. Any visible deterioration of structure's crest? NA

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? yes but out dated

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Aug. 1995

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? yes

Section IV (Conclusions)

General comments and recommendations:

The primary outlet pipe is ~10" fiberglass pipe. It is blocked with a basketball. This is likely due to a missing trash rack. Remove the ball. Put a trash rack on the outlet pipe.

Trees covering both slopes of the dam. Remove the smaller trees (<6"). Watch for seepage on the down slope.

The emergency spillway pipe is 95% clogged on the outlet end. Open up the pipe and create a channel for flow. Remove trees from in front of pipe.

James West

Preliminary Dam Inspection Disclaimer:

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**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

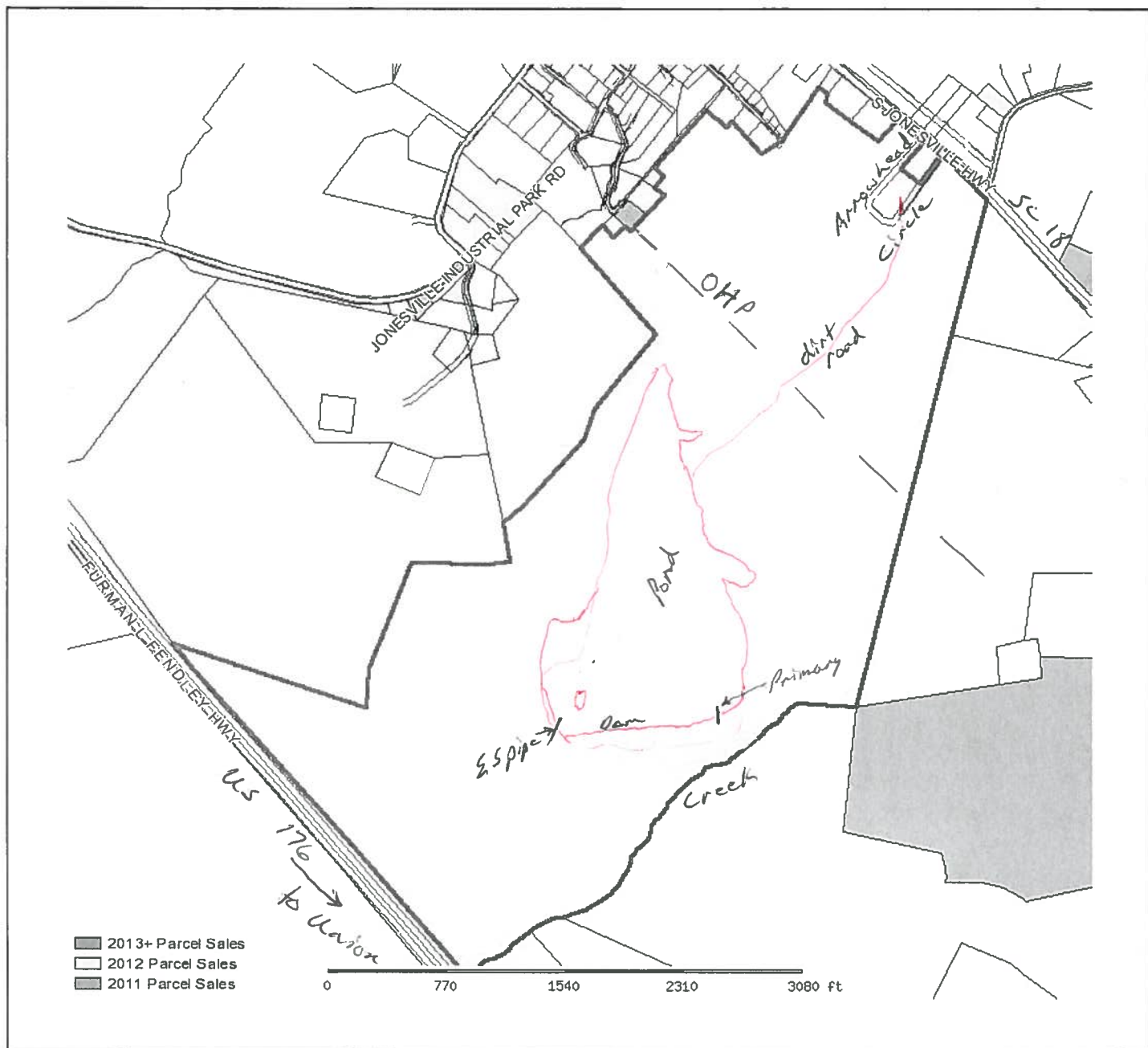
Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

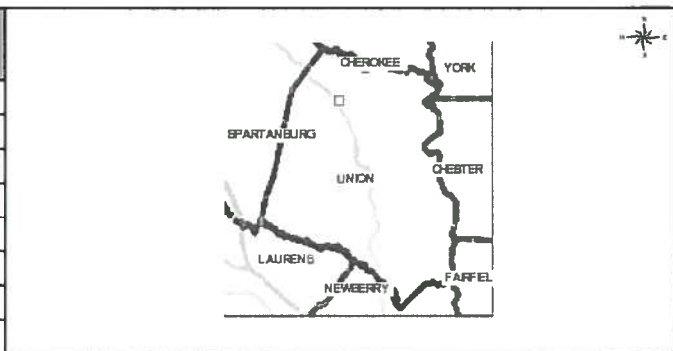
Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Union County Assessor			
Parcel: 027-00-00-001 000 Acres: 290.00			
Name:	BOGAN ROBERT STEVE	Land Value	\$ 246,500
Site:		Improvement Val	0
Sale:	\$5 on 19970729	Accessory Value	0
Mail:	DONNIE RAY ETAL (TRUSTEES)	Total Value	\$ 246,500
	PO BOX 278		
	JONESVILLE SC 29353		



The Union County Assessor's Office makes every effort to produce the most accurate information possible. No warranties, expressed or implied, are provided for the data herein, its use or interpretation. The assessment information is from the last certified taxroll. All data is subject to change before the next certified taxroll. PLEASE NOTE THAT THE PROPERTY APPRAISER MAPS ARE FOR ASSESSMENT PURPOSES ONLY NEITHER UNION COUNTY NOR ITS EMPLOYEES A RESPONSIBILITY FOR ERRORS OR OMISSIONS ---THIS IS NOT A SURVEY---
 Date printed: 12/16/13 : 11:14:01



South Carolina Department of Health and Environmental Control

January 27, 2014

Elizabeth H. Santiago
P. O. Box 207
Fairforest, SC 29336

Re: Inspection of **Dam D-2713**, Spartanburg County

Dear Mrs. Santiago:

On October 18, 2013, SC DHEC conducted a routine inspection of your dam located near Spartanburg. A follow-up inspection occurred on January 24, 2014. I am grateful you and your husband were able to join me during the inspections. Enclosed is a copy of the inspection report of the dam. The overall condition of the dam is **Fair**.

Trees were noted on the dam. Remove those less than 6 inches in diameter. There is seepage within the outlet pipe and all along the far left toe of the rear slope. The pipe drainage was unexpected due to the way the pipe is supposed to function. It should not receive water unless it goes over the top. During the visit the pond water level appeared to be more than a foot below the top of the 6 inch pipe. Therefore no water should be exiting the pipe.

An attempt on January 24, 2014 to monitor the flow of water through the outlet pipe was unsuccessful. The level of the pond had risen to the top of the pipe and the pipe's discharge was partially submerged. Both the pipe flow and the slope seepage should be monitored in the future for any increase in volume. Also look for any change in color associated the slope drainage.

Thank you for completing the emergency alert notification plan. Should this dam experience difficulty and be endanger of failing, the entities named on the form should be of assistance.

If you have any questions, please call me at 864-596-3800.

Sincerely

James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg - Region Engineer



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 2763 & Hazard Class 2 B. Name of Dam: Hughston Pond
C. Inspection Date (10/18/2010) & Time: D. Date of Last Inspection: (11/3/2010)
E. Location-County/City: Sptbg / Fair Forest F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Elizabeth Hughston Santiago
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 526-3121 Office () - - - - Other (864) 382-2444
K. Dam Owner's or Contact Person's mailing address: Address 1 5041 N. Blackstock Rd Sptbg 29303 Address 2 (optional) Mail: P.O. Box 707 City Fair Forest State SC Zip Code 29336 - - - -

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Trees and bushes
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? One 4' section of settling
Appears to be old and of no significance.

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? None
- vi. Toe drains flowing? No toe drains found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: All along left toe of slope
Color due to Iron bacteria

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No rack over 8"
Metal pipe
- iii. Any noticeable problems with debris? None over exposed pipe
- iv. Is valve or gate present? None

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Water Flowing
thru pipe though pipe rizer is still \approx 1.5' above water.
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: No channel. Water does not
flow sufficiently so as to create a channel.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Trees
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

D-2713

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? 10/18/13

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Water Flow thru the outlet pipe was a surprise due to the pipe rizer being out of the water. There is likely a crack or hole in the pipe. There is seepage at the toe of the slope. Monitor the pipe flow and toe slope seepage to evaluate overall dam condition. IF it increases significantly contact DHEC and an engineer. Remove trees < 6" diameter.

James West

Preliminary Dam Inspection Disclaimer:

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1/24/14 A return visit to monitor the outlet flow rate was DHEC 2604 (Rev 11/2011) impossible due to an unexpected rise in the pond level. That day's discharge was supposed to go thru the pipe.

JW



**Low Hazard Dam Classification Inspection Form for South Carolina
Regulated Dams
Dams and Reservoirs Safety Act Regulations 72-1 through 72-9**

Note: This form is only for use on current low hazard (class three) dams regulated by the Department of Health and Environmental Control in the State of South Carolina. The primary user of this form is for the use of Department staff members actively involved in reclassification inspections. The current policy is to evaluate the hazard potential of low hazard dams at least once every five years.

Date of Inspection: _____ SC Dam Inventory Number D_____ County: _____

Dam Name: _____

I. Dam Owner Information

Has ownership changed? _____ Yes _____ No (If yes, enter the new owners and their contact information below)

A. Owner/ Operator (Company or person): _____

Contact Person (if owner is company): _____

Phone: _____ Email: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

II. Site Information

A. Site Location (street address, nearest intersection, etc.): _____

Latitude: _____° _____' _____" N Longitude: - _____° _____' _____" W Tax map # (list all): _____

B. Is there any evidence of new development below the dam? _____ Yes _____ No

C. Do you think the hazard classification should be upgraded? _____ Yes _____ No

D. If yes for item II.C, what is your opinion of what the new classification should be? _____ Class 1 (High Hazard)
_____ Class 2 (Significant Hazard)

III. Signature

Please print your name, sign, and date on the lines below once the inspection and form have been completed. If assistance with determining the hazard classification was obtaining from Bureau of Water staff members, they will also need to complete this portion of the form.

Printed Name of Regional Inspector	Signature	Date of Signature
Printed Name of BOW Engineer	Signature	Date of Signature



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

August 18, 2015

Arrowhead Lake Inc.
Attn: Henry Thompson
204 Arrowhead Circle
Spartanburg SC 29301

Re: Reinspection of Dam D-2714,
Arrowhead Lake Dam, Spartanburg County

Dear Mr. Thompson:

On May 19, 2015 a routine reinspection of the Arrowhead Lake Dam was performed. I am enclosing a copy of the inspection report. The following deficiencies were noted:

-The dam needs to be cleared of brush and trees smaller than 4 inches in diameter. Once the dam is cleared, an assessment should be made by a Professional Engineer to determine the status of the dam. The assessment should include a tree removal plan for trees larger than 4 inches in diameter. The assessment should also include evaluation and repair of the areas impacted by the large dead trees on the dam.

-The enclosed Emergency Action Plan form should be completed and submitted to this office for our file.

This dam is given an overall Fair assessment. Please complete the requested items and submit to this office within 90 days of date of this letter. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: John Poole, P.E. – Dams and Reservoir Safety, BW



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D 2714 & Hazard Class C2

B. Name of Dam: Arrowhead Lake Dam

C. Inspection Date (05/19/2015) & Time: 11:00

D. Date of Last Inspection: (07/17/2012)

E. Location-County/City: Spartanburg / Spartanburg

F. EQC Regional Office: Spartanburg

G. Inspector's Name: Mark Cann

H. Owner's Name: Arrowhead Lake Inc

I. Contact Person (if different from above): Henry Thompson

J. Dam Owner's or Contact Person's Phone Numbers:

Home () - - - - -

Office () - - - - -

Other () - - - - -

K. Dam Owner's or Contact Person's mailing address:

Address 1 204 Arrowhead Circle

Address 2 (optional) _____

City Spartanburg, State SC Zip Code 29301 - - - - -

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Paved
- ii. Animal activity observed? No
- iii. Any obvious alteration or repairs made? No
- iv. Erosion noticed on crest? No
- v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? A lot of brush and trees.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Covered with brush and trees.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No toe drains.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? Probably needs replacing.
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? No valve clearly evident.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: OK
- iii. Visible condition of outlet channel: Outlet channel is scoured earth; clay ditch bank seems relatively stable.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No emergency spillway is evident.
- ii. Animal activity observed? _____
- iii. Any noticeable deterioration in the approach or discharge channel? _____
- iv. Any visible deterioration of structure's crest? _____

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? EAP is outdated and needs to be updated.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

The dam is in overall Fair condition but vegetative growth is out of control and needs to be cleared. Once brush is cleared from the dam an assessment should be made by an engineer and a plan developed to clear large trees from the dam.

An updated Emergency Action Plan should be completed and submitted.

Preliminary Dam Inspection Disclaimer:

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**S. C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
DAMS AND RESERVOIRS SAFETY PROGRAM
SURVEILLANCE PLAN AND EMERGENCY NOTIFICATION PLAN**

..... DAM, D .

---- County

AS OWNER MANAGER OPERATOR (Please Check One)

Of the above reference dam, the person(s) named below are responsible for safe maintenance and operation of the above dam and reservoir and are responsible for implementing the following Surveillance Plan and the following Emergency Notification Plan:

SURVEILLANCE PLAN

Visual inspections will be performed frequently to detect any major changes, which may endanger the dam such as settlement, erosion, cracking and earth movement. Evidence of seepage on the downstream slope, at the toe and downstream from the toe, will be monitored to detect any increase in flow or movement of soil particles. The Dams and Reservoirs Safety District Engineer, Greg Harrington at 803-285-7461 will be notified if any of the above symptoms are found.

EMERGENCY NOTIFICATION PLAN

In the event a major flood or hurricane is forecast, the dam will be monitored, and if the dam appears to be in danger from overtopping or if failure appears imminent because of other problems, the following state and local officials will be notified and the dam will be kept under constant surveillance until the proper authorities arrive to protect the general public.

1.	South Carolina Highway Patrol
2.	Local Highway Maintenance Engineer
3.	Local Police Department, Emergency Preparedness personnel, and other county or town officials
4.	S.C. Department of Health and Environmental Control, Columbia, SC

Additionally, the dam owner or his representative will notify the following downstream property owners. (This space is provided for the dam owner or his representative to complete, as this is his responsibility under the S. C. Dams and Reservoirs Safety Act Regulations.)

Person(s) responsible for implementing Surveillance Plan and Emergency Notification Plan:

NAME:	DATE:	TELEPHONE:

ENGINEERS EXPERIENCED IN
DAM DESIGN WORK

Stephen L. Whitesides, PE
CDM
5400 Glenwood Ave, Suite 300
Raleigh, NC 27612
(919)325-3556

Law Engineering & Envir. Svcs
720 Gracem Road
Columbia, SC 29201
(803)798-1200

Don Worley, P.E.
Matrix Engineering
912 South Pine Street
Spartanburg, SC 29302
(864) 583-6274

Schnabel Engineering
104 Corporate Blvd Suite 410
W. Columbia, SC 29169
(803) 796-6240

Howard Leonard, P.E.
Peritus Civil
18 Pimlico Court
P. O. Box 16146
Greenville, SC 29607
(864) 288-5312

S&ME
301 Zima Park Drive
Spartanburg, SC 29301
(864) 574-2360

William A. Timmons, PE
16-C North Brooks St
PO Box 927
Manning, SC
(803) 435-2647

Pat Gambill
WK Dickson & Co, Inc.
1001 Pinnacle Pt Dr, Suite 110
Columbia, SC 29223
Office (803) 786-4261

Hass & Hildebrand, Inc.
13 Greenville St SW
P. O. Box 3276
Aiken, SC 29802
(803)649-1316

Piedmont Olsen Hensley
420 Park Avenue
P. O. Box 1717
Greenville, SC 29602
(864)242-1717

I. Grady Adkins, Jr., P.E.
Southeast Regional Office
Paul C. Rizzo Associates, Inc.
101 Westpark Boulevard, Suite B
Columbia, SC 29210
(803) 750-9773 x 12
FAX (803) 750-9116

Chao and Assoc., Inc.
3936 Sunset Boulevard
West Columbia, SC 29169
(803) 791-8420

Gene Dobbins (Thomas Eugene Dobbins)
200 E Camperdown Way
Suite 200 B
Greenville, SC
864-467-0811

Dan Creed, P.E.
Heritage Engineering, Inc.
10719 Wilson Blvd.
Mythwood, SC 29016
(803) 714-9632

William C. Cooper, P.E.
Consulting Engineer
1713-B Woodcreek Farms Road
Elgin, SC 29045
(803)699-7728

Note: This list is furnished as a courtesy only. Firms listed here have successfully designed new or repair projects for dams. The inclusion of any firm on this list is not an endorsement of that firm. Likewise, failure to include any firm on this list does not mean the firm is not qualified to do design work on dams.

RECEIVED

NOV 01 2013

SPARTANBURG EQC OFFICE



South Carolina Department of Health and Environmental Control

October 17, 2013

Mr. & Mrs. Randall Price
175 Margate Circle
Chesnee, SC 29323

Mr. Earl W. Blair, Jr.
155 Keeney Lane
Chesnee, SC 29323

RE: Inspection of Dam D-2722, Thompson Pond Dam, Spartanburg County

Dear Dam Owners:

On October 15, 2013, I conducted a routine inspection of the Thompson Pond Dam near Chesnee. Overall the dam was rated in **fair** condition. I am enclosing a copy of my inspection report of the dam. The following deficiencies were noted:

1. Trees with diameters of less than 6 inches should be removed. Please note that continued tree growth on the dam compromises the integrity of the structure.
2. The primary outfall is clogged and submerged. I could not ascertain the reason for the blockage. This pipe failure / blockage prevents proper operation of the pond. This has not led to any severe erosion of the emergency spillway at present but may do so in the future.
3. The Emergency Action Plan is out of date and was last signed by Mr. Thompson.

Please complete the enclosed Plan. Return one to us and keep one for your record. Should the dam experience difficulty, the appropriate emergency officials should be notified. The agencies listed in the emergency plan can provide assistance in determining what actions to take for protection of the public health and downstream property.

If you have any questions, please call me at 864-596-3800.

Sincerely

James West
BEHS Upstate Region - Spartanburg

_____ S. Turner	_____ C. Carter
_____ S. Burnett	_____ M. Cann
_____ C. Carroll	_____ S. Garrett
F. Hall	_____ J. Hall
_____ S. Hammond	_____ K. Lancaster
_____ R. Mullinax	_____ S. Murdock
_____ J. West	_____
_____	_____

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall – Spartanburg EHS Region Engineer



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D2723 & Hazard Class 2 B. Name of Dam: Thompson Pond
C. Inspection Date (10/15/2013) & Time: 2:45 D. Date of Last Inspection: (10/29/2010)
E. Location-County/City: Spartanburg Cherokee F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Mr & Mrs. Randall Price / Earl Blair Jr.
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Price Home (864) 487-2026 Office () Cell Other (864) 590-3029 Mr. Price
K. Dam Owner's or Contact Person's mailing address: Address 1 175 Margate Circle Address 2 (optional) 155 Keeney Ln City Cherokee State SC Zip Code 29323 and 155 Keeney Lane Cherokee, SC 29323

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? grass is sufficient
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Mainly grass, some shrubs
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass w/ sm trees & bushes on Price side, Asian bamboo and trees on
- ii. Animal activity observed? None seen
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? Not on the face of dam
- v. Settlement or cracks visible in slope?
- vi. Toe drains flowing? None found

vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes at the base of the left abutment. Full of iron bacteria. A steady trickle, similar to the flow thru

D. Primary Spillway

- i. Any visible deterioration of structure? Cannot see the structure. Its under water.
- ii. Is there an obvious need to repair or replace trash rack? Unknown
- iii. Any noticeable problems with debris? Unknown
- iv. Is valve or gate present? Did not see one

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: Pipe may have separated from its last section many years ago. Or else there is a
- iii. Visible condition of outlet channel: Not well defined second pipe.

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? A small burn pile
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? Scouring erosion at toe of slope and discharge channel.
- iv. Any visible deterioration of structure's crest? Crest is a small section of pipe

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? N

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Plan in the file was for the original owner

ii. Does EAP contain emergency alert notification plan? If so, when was it last updated? NA

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? NA

Section IV (Conclusions)

General comments and recommendations:

Primary outlet structure is no longer visible. Its usefulness is greatly hindered, less than 5% flow rate. Never the less, the spillway is not being utilized often.
An Emergency Action Plan should be completed by both parties.
Remove trees < 6" in diameter. Monitor the drain flow and dam seepage.

James West

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.



**Low Hazard Dam Classification Inspection Form for South Carolina
Regulated Dams
Dams and Reservoirs Safety Act Regulations 72-1 through 72-9**

Note: This form is only for use on current low hazard (class three) dams regulated by the Department of Health and Environmental Control in the State of South Carolina. The primary user of this form is for the use of Department staff members actively involved in reclassification inspections. The current policy is to evaluate the hazard potential of low hazard dams at least once every five years.

Date of Inspection: _____ **SC Dam Inventory Number D** _____ **County:** _____

Dam Name: _____

I. Dam Owner Information

Has ownership changed? _____ Yes _____ No (If yes, enter the new owners and their contact information below)

A. Owner/ Operator (Company or person): _____

Contact Person (if owner is company): _____

Phone: _____ **Email:** _____

Mailing Address: _____

City: _____ **State:** _____ **Zip:** _____

#

II. Site Information

A. Site Location (street address, nearest intersection, etc.): _____

Latitude: _____ ° _____ ' _____ " N **Longitude:** - _____ ° _____ ' _____ " W **Tax map # (list all):** _____

B. Is there any evidence of new development below the dam? _____ Yes _____ No

C. Do you think the hazard classification should be upgraded? _____ Yes _____ No

D. If yes for item II.C, what is your opinion of what the new classification should be? _____ Class 1 (High Hazard)
_____ Class 2 (Significant Hazard)

III. Signature

Please print your name, sign, and date on the lines below once the inspection and form have been completed. If assistance with determining the hazard classification was obtaining from Bureau of Water staff members, they will also need to complete this portion of the form.

_____	_____	_____
Printed Name of Regional Inspector	Signature	Date of Signature
_____	_____	_____
Printed Name of BOW Engineer	Signature	Date of Signature



South Carolina Department of Health and Environmental Control

CERTIFIED MAIL

November 13, 2013

Francis Kirby
237 Genoble Road
Greer, SC 29651

Re: Inspection of **Dam D-2746**, Spartanburg County

Dear Mrs. Kirby:

On December 7, 2010, SC DHEC conducted a routine inspection of your dam located off Genoble Road near Greer. I am enclosing a copy of the inspection report of the dam. The dam received a **poor** rating.

Although the past beaver activity has largely been addressed, the emergency overflow continues to receive a greater discharge than the primary spillway pipe. Apparently something is blocking the primary pipe just as it did in 2010. The emergency spillway was not designed for constant flow. Erosion is occurring in the channel below the spillway.

Weeds and trees were observed on both dam faces. Trees with diameters of less than 6 inches should be removed. Please note that this continued tree growth on the dam compromises the integrity of the structure.

Corrections should be performed within ninety (90) days from the receipt of this letter. These corrections are required by the *Dams and Reservoirs Safety Act Regulations R. 72-4*. Failure to perform these corrections is a direct violation of the Dams and Reservoirs Safety Act, Article 3, Section 49-11-260 and subsequent penalties. Please contact DHEC when the work on the dam is complete.

We do not have a copy of your emergency alert notification plan. A copy of the plan can be provided to us at that time. Should this dam experience difficulty and be endanger of failing, the agencies you list on the notification plan could provide assistance in doing this.

If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg EQC – District Engineer



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 2746 & Hazard Class 2 B. Name of Dam: Francis Kirby Dam
C. Inspection Date (10/22/2012) & Time: 1400 D. Date of Last Inspection: (12/07/2010)
E. Location-County/City: Greer/Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Francis Kirby
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home () Office () Other ()
K. Dam Owner's or Contact Person's mailing address:
Address 1 240 Genoble Rd
Address 2 (optional)
City Greer State SC Zip Code 29617

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [] c) Poor [x] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass & Weeds (some small trees)
ii. Animal activity observed? Beaver crossing & dead beaver
iii. Any obvious alteration or repairs made? None
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Bushes / sm. trees
- ii. Animal activity observed? Beaver slide
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass & weeds (including trees)
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No.
- vi. Toe drains flowing? Could not find
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes - Very wet along left toe of slope

D. Primary Spillway

- i. Any visible deterioration of structure? Could not locate a riser pipe
- ii. Is there an obvious need to repair or replace trash rack? _____
- iii. Any noticeable problems with debris? _____
- iv. Is valve or gate present? _____

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No outlet pipe was located - vegetation is too thick
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? ES has become the primary spillway - no obstruction
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? Yes - erosion occurring along ~50% of discharge channel
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? None

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? _____

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Beavers are being managed. Two beaver ponds on short creek distance to Genable Road have been removed. One beaver is dead on top of the dam

What is the primary outlet? Vegetation must be cut to investigate the back slope of the dam.

James West

Preliminary Dam Inspection Disclaimer:

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D H E C



South Carolina Department of Health and Environmental Control

Low Hazard Dam Classification Inspection Form for South Carolina Regulated Dams Dams and Reservoirs Safety Act Regulations 72-1 through 72-9

Note: This form is only for use on current low hazard (class three) dams regulated by the Department of Health and Environmental Control in the State of South Carolina. The primary user of this form is for the use of Department staff members actively involved in reclassification inspections. The current policy is to evaluate the hazard potential of low hazard dams at least once every five years.

Date of Inspection: _____ SC Dam Inventory Number D _____ County: _____

Dam Name: _____

I. Dam Owner Information

Has ownership changed? _____ Yes _____ No (If yes, enter the new owners and their contact information below)

A. Owner/ Operator (Company or person): _____

Contact Person (if owner is company): _____

Phone: _____ Email: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

II. Site Information

A. Site Location (street address, nearest intersection, etc.): _____

Latitude: _____° _____' _____" N Longitude: - _____° _____' _____" W Tax map # (list all): _____

B. Is there any evidence of new development below the dam? _____ Yes _____ No

C. Do you think the hazard classification should be upgraded? _____ Yes _____ No

D. If yes for item II.C, what is your opinion of what the new classification should be? _____ Class 1 (High Hazard) _____ Class 2 (Significant Hazard)

III. Signature

Please print your name, sign, and date on the lines below once the inspection and form have been completed. If assistance with determining the hazard classification was obtaining from Bureau of Water staff members, they will also need to complete this portion of the form.

Printed Name of Regional Inspector

Signature

Date of Signature

Printed Name of BOW Engineer

Signature

Date of Signature



Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

October 6, 2015

Mr. John Allison, Jr.
400 Robin Lake Rd.
Duncan SC 29334

Mr. Stephen Busch
350 Robin Lake Rd.
Duncan SC 29334

Re: Reinspection of Dam D-2747,
Robin Lake Dam, Spartanburg County

Dear Sirs:

On September 8, 2015 a routine reinspection of the Robin Lake Dam was performed. I am enclosing a copy of the inspection report. The following deficiencies were noted:

-The dam needs to be cleared of brush and trees smaller than 4 inches in diameter. Once the dam is cleared, an assessment should be made by a Professional Engineer to determine the status of the dam. The assessment should include a tree removal plan for trees larger than 4 inches in diameter.

-The enclosed Emergency Action Plan form should be completed and submitted to this office for our file.

This dam is given an overall Fair assessment. Please complete the requested items and submit to this office within 90 days of date of this letter. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: David Graves – Dams and Reservoir Safety, BW



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 2747 & Hazard Class C2 B. Name of Dam: Robin Lake Dam
C. Inspection Date (09 / 08 / 20 15) & Time: 13:45 D. Date of Last Inspection: (11 / 19 / 2012)
E. Location-County/City: Spartanburg / Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name: John Allison, Jr., Stephen Busch
I. Contact Person (if different from above): John Allison - 864-879-6652
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office () - Other () -
K. Dam Owner's or Contact Person's mailing address:
Address 1 John Allison - 400 Robin Lake Rd.
Address 2 (optional) Stephen Busch - 350 Robin Lake Rd
City Duncan, State SC Zip Code 29334 -

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass, weeds, brush.
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Brush, weeds.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Brush and trees
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No toe drains.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None noted.

D. Primary Spillway

- i. Any visible deterioration of structure? Not visible
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Not visible.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Brush, trees.
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Dam is in overall Fair condition. Dam should be cleared of trees and brush.

Preliminary Dam Inspection Disclaimer:

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ENGINEERS EXPERIENCED IN
DAM DESIGN WORK

Stephen L. Whitesides, PE
CDM
5400 Glenwood Ave, Suite 300
Raleigh, NC 27612
(919)325-3556

Schnabel Engineering
104 Corporate Blvd Suite 410
W. Columbia, SC 29169
(803) 796-6240

William A. Timmons, PE
16-C North Brooks St
PO Box 927
Manning, SC
(803) 435-2647

Hass & Hildebrand, Inc.
33 Greenville St SW
P. O. Box 3276
Aiken, SC 29802
(803)649-1316

H. Grady Adkins, Jr., P.E.
Southeast Regional Office
Paul C. Rizzo Associates, Inc.
101 Westpark Boulevard, Suite B
Columbia, SC 29210
(803) 750-9773 x 12
FAX (803) 750-9116

Dan Creed, P.E.
Heritage Engineering, Inc.
10719 Wilson Blvd.
Blythewood, SC 29016
(803) 714-9632

Law Engineering & Envir. Svcs
720 Gracern Road
Columbia, SC 29201
(803)798-1200

Howard Leonard, P.E.
Peritus Civil
18 Pimlico Court
P. O. Box 16146
Greenville, SC 29607
(864) 288-5312

Pat Gambill
WK Dickson & Co, Inc.
1001 Pinnacle Pt Dr, Suite 110
Columbia, SC 29223
Office (803) 786-4261

Piedmont Olsen Hensley
420 Park Avenue
P. O. Box 1717
Greenville, SC 29602
(864)242-1717

Chao and Assoc., Inc.
3936 Sunset Boulevard
West Columbia, SC 29169
(803) 791-8420

Gene Dobbins (Thomas Eugene Dobbins)
200 E Camperdown Way
Suite 200 B
Greenville, SC
864-467-0811

William C. Cooper, P.E.
Consulting Engineer
1713-B Woodcreek Farms Road
Elgin, SC 29045
(803)699-7728

Don Worley, P.E.
Matrix Engineering
912 South Pine Street
Spartanburg, SC 29302
(864) 583-6274

S&ME
301 Zima Park Drive
Spartanburg, SC 29301
(864) 574-2360

Note: This list is furnished as a courtesy only. Firms listed here have successfully designed new or repair projects for dams. The inclusion of any firm on this list is not an endorsement of that firm. Likewise, failure to include any firm on this list does not mean the firm is not qualified to do design work on dams.

**S. C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
DAMS AND RESERVOIRS SAFETY PROGRAM
SURVEILLANCE PLAN AND EMERGENCY NOTIFICATION PLAN**

----- DAM, D .

---- County

AS OWNER MANAGER OPERATOR (Please Check One)

Of the above reference dam, the person(s) named below are responsible for safe maintenance and operation of the above dam and reservoir and are responsible for implementing the following Surveillance Plan and the following Emergency Notification Plan:

SURVEILLANCE PLAN

Visual inspections will be performed frequently to detect any major changes, which may endanger the dam such as settlement, erosion, cracking and earth movement. Evidence of seepage on the downstream slope, at the toe and downstream from the toe, will be monitored to detect any increase in flow or movement of soil particles. The Dams and Reservoirs Safety District Engineer, Greg Harrington at 803-285-7461 will be notified if any of the above symptoms are found.

EMERGENCY NOTIFICATION PLAN

In the event a major flood or hurricane is forecast, the dam will be monitored, and if the dam appears to be in danger from overtopping or if failure appears imminent because of other problems, the following state and local officials will be notified and the dam will be kept under constant surveillance until the proper authorities arrive to protect the general public.

1.	South Carolina Highway Patrol	-----
2.	Local Highway Maintenance Engineer	-----
3.	Local Police Department, Emergency Preparedness personnel, and other county or town officials	-----
4.	S.C. Department of Health and Environmental Control, Columbia, SC	-----

Additionally, the dam owner or his representative will notify the following downstream property owners. (This space is provided for the dam owner or his representative to complete, as this is his responsibility under the S. C. Dams and Reservoirs Safety Act Regulations.)

Person(s) responsible for implementing Surveillance Plan and Emergency Notification Plan:

NAME:	DATE:	TELEPHONE:



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

August 19, 2015

Willow Creek Golf Course
Attn: Kyle Traynum
205 Sandy Run Drive
Greer SC 29651

Re: Reinspection of Dam D-2789,
Willow Creek Golf Course Dam, Spartanburg County

Dear Mr. Traynum:

On June 26, 2015 a routine reinspection of the Willow Creek Golf Course Dam was performed. I am enclosing a copy of the inspection report. The following deficiencies were noted:

-The enclosed Emergency Action Plan form should be completed and submitted to this office for our file.

This dam is given an overall Satisfactory assessment. Please complete the requested items and submit to this office within 90 days of date of this letter. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: John Poole, P.E. – Dams and Reservoir Safety, BW



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D 2789 & Hazard Class C2 B. Name of Dam: Willow Creek Dam

C. Inspection Date (06/26/2015) & Time: 1:30 D. Date of Last Inspection: (10/22/2012)

E. Location-County/City: Spartanburg / Woodruff F. EQC Regional Office: Spartanburg

G. Inspector's Name: Mark Cann

H. Owner's Name: Willow Creek Golf Course

I. Contact Person (if different from above): Kyle Traynum

J. Dam Owner's or Contact Person's Phone Numbers: Home (___) ___ - ___
 Office (864) 848 - 3458
 Other (___) ___ - ___

K. Dam Owner's or Contact Person's mailing address:

Address 1 205 Sandy Run Drive

Address 2 (optional) _____

City Greer State SC Zip Code 29651 - _____

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

i. Vegetation (grass, trees weeds)? Grass - golf course fairway on crest.

ii. Animal activity observed? Geese

iii. Any obvious alteration or repairs made? No

iv. Erosion noticed on crest? No

v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass and weeds - needs to be mowed.
- ii. Animal activity observed? Geese
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? Geese
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No toe drains.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None.
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No
- ii. Animal activity observed? Geese
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Need updated EAP. _____

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Dam is in overall Satisfactory condition. Please continue with your current maintenance practices. An updated Emergency Action Plan should be completed and submitted for our files.

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.

**S. C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
DAMS AND RESERVOIRS SAFETY PROGRAM
SURVEILLANCE PLAN AND EMERGENCY NOTIFICATION PLAN**

----- DAM, D .

---- County

AS OWNER MANAGER OPERATOR (Please Check One)

Of the above reference dam, the person(s) named below are responsible for safe maintenance and operation of the above dam and reservoir and are responsible for implementing the following Surveillance Plan and the following Emergency Notification Plan:

SURVEILLANCE PLAN

Visual inspections will be performed frequently to detect any major changes, which may endanger the dam such as settlement, erosion, cracking and earth movement. Evidence of seepage on the downstream slope, at the toe and downstream from the toe, will be monitored to detect any increase in flow or movement of soil particles. The Dams and Reservoirs Safety District Engineer, Greg Harrington at 803-285-7461 will be notified if any of the above symptoms are found.

EMERGENCY NOTIFICATION PLAN

In the event a major flood or hurricane is forecast, the dam will be monitored, and if the dam appears to be in danger from overtopping or if failure appears imminent because of other problems, the following state and local officials will be notified and the dam will be kept under constant surveillance until the proper authorities arrive to protect the general public.

1.	South Carolina Highway Patrol	-----
2.	Local Highway Maintenance Engineer	-----
3.	Local Police Department, Emergency Preparedness personnel, and other county or town officials	-----
4.	S.C. Department of Health and Environmental Control, Columbia, SC	-----

Additionally, the dam owner or his representative will notify the following downstream property owners. (This space is provided for the dam owner or his representative to complete, as this is his responsibility under the S. C. Dams and Reservoirs Safety Act Regulations.)

Person(s) responsible for implementing Surveillance Plan and Emergency Notification Plan:

NAME:	DATE:	TELEPHONE:



South Carolina Department of Health and Environmental Control

November 4, 2013

Bernard Anthony Alverson ETA
830 Berry Shoals Road
Duncan, SC 29334

Re: Inspection of **Dam D-3275**, Alverson Pond, Spartanburg County

Dear Sirs:

On October 17, 2013, SC DHEC conducted a routine inspection of your dam located near Duncan. I am enclosing a copy of the inspection report of the dam. Overall the dam appears to be in **fair** condition. However, you should remove all trees, brush and debris from the Emergency Spillway. Likewise all vegetation should be removed from around the outlet riser.

Corrections should be performed within ninety (90) days from the receipt of this letter.

Attached is a blank emergency alert notification plan. Please fill it out and return a copy to this office. Should this dam experience difficulty and be in danger of failing, the impacted area downstream would need to be evacuated and downstream roads blocked. The agencies you list on the notification plan could provide assistance in doing this.

If you have any questions, please call me at 864-596-3800.

Sincerely

James West
SC DHEC Upstate Region - Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg – District Engineer



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D3275 & Hazard Class 2 B. Name of Dam: Alverson Pond
C. Inspection Date (01/20/13) & Time: 2:30 D. Date of Last Inspection: (/ /)
E. Location-County/City: Duncan / Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Bernard Anthony Alverson ETA
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home () Office () Other ()
K. Dam Owner's or Contact Person's mailing address:
Address 1 830 Berry Shoals Rd
Address 2 (optional)
City Duncan State SC Zip Code 29324

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass and weeds
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Trees, brush, weeds
- ii. Animal activity observed? old beaver gnawing
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? None Found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: _____

D. Primary Spillway

- i. Any visible deterioration of structure? Weeds on pond side of structure
- ii. Is there an obvious need to repair or replace trash rack? Can't see top of rizer
- iii. Any noticeable problems with debris? could be in the weeds but can't tell.
- iv. Is valve or gate present? None seen

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? None
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Okay

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Weeds all along pond side
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? yes. Water by-passing the channel due to weeds on structure.
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? No

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? NA

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? NA

Section IV (Conclusions)

General comments and recommendations:

Remove weeds from Emergency spillway
and from outlet pipe rizer. Remove
trees <6" diameter from both slopes
of the dam.

James West

Preliminary Dam Inspection Disclaimer:

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Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

December 31, 2014

Mr. Alexai Difort
1111 Foster Rd
Inman, SC 29349

Mr. Ivan Cholak
1121 Foster Rd
Inman, SC 29349

Re: Inspection of **McNair Dam D-3306**, McNair Dam, Spartanburg County

Dear Sirs:

On December 18, 2014, SC DHEC conducted a routine safety inspection of your dam off Foster Road in Spartanburg County. Overall the dam appears to be in **poor** condition. I am enclosing a copy of the inspection report of the dam.

There were bare sections on the crest of the dam that need to be re-grassed. The original outlet structure could not be located. The auxiliary spillway is the only spillway that we could locate. This spillway empties into a sequence of small ponds. The outlet channel below the third pond shows some scouring erosion. Stabilize this area. Large amounts of trash debris was observed between the second small pond and the backside of the dam. Remove the solid waste from this pile and properly dispose it in a landfill.

Large trees were found on the crest and both slopes. Tree roots are a pathway for water to seep through the dam and can lead to the eventual failure of the structure. Flowing water with large quantities of iron bacteria was observed coming from the toe of the slope. Monitor this discharge for changes in color or volume. If the water begins to carry sediment contact SC DHEC as well as an engineer.

Corrections should be performed within ninety (90) days from the receipt of this letter. These corrections are required by the *Dams and Reservoirs Safety Act Regulations R. 72-4*. Failure to perform these corrections is a direct violation of the Dams and Reservoirs Safety Act, Article 3, Section 49-11-260 and subsequent penalties. Contact SC DHEC when the corrections have been made.

We have no emergency notification plan in our file. Please complete the attached form and return a copy to us. Should this dam experience difficulty and be endanger of failing, the agencies listed on the notification plan could provide assistance. If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, SC DHEC Bureau of Water – Dam Safety Program



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D3306 & Hazard Class 2
B. Name of Dam: McNair Dam
C. Inspection Date (12/18/2014) & Time: 4:00
D. Date of Last Inspection: (/ /)
E. Location-County/City: Spartanburg Inman
F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West (Brett Gilreath assisted)
H. Owner's Name: Alexai DiFort / Ivan Cholak
I. Contact Person (if different from above): _____
J. Dam Owner's or Contact Person's Phone Numbers: Home (___) ___-____
Office (___) ___-____
Other (___) ___-____
K. Dam Owner's or Contact Person's mailing address:
Address 1 1111 Foster Rd + 1121 Foster Rd
Address 2 (optional) _____
City Inman, State SC Zip Code 29349

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass with bare spots
- ii. Animal activity observed? None
- iii. Any obvious alteration or repairs made? No
- iv. Erosion noticed on crest? No
- v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Trees (large + small)
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees, weeds + vines made it very difficult to see
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No - but could not evaluate much of it
- vi. Toe drains flowing? None found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes - significant seepage containing iron bacteria at the toe of the slope

D. Primary Spillway

- i. Any visible deterioration of structure? No pipe found
- ii. Is there an obvious need to repair or replace trash rack? NA
- iii. Any noticeable problems with debris? NA
- iv. Is valve or gate present? No

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NA
- ii. Describe any deflection or damage observed to the pipe: NA
- iii. Visible condition of outlet channel: Eroding after the last small pond / basin

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No - sides lined w/ rock
- iv. Any visible deterioration of structure's crest? 3 concrete pipes do not appear well stabilized

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

concrete pipe outlet channel below
the lower pond is not stabilized. Water
has caused erosion around the pipe.

Preliminary Dam Inspection Disclaimer:

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Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D3319 & Hazard Class C2 B. Name of Dam: Gibson Pond Dam
C. Inspection Date (10/07/2015) & Time: 14:45 D. Date of Last Inspection: (06/28/2012)
E. Location-County/City: Spartanburg / Inman F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name:
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office () - Other () -
K. Dam Owner's or Contact Person's mailing address: Address 1 Address 2 (optional) City State Zip Code

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? weeds, brush
ii. Animal activity observed? no
iii. Any obvious alteration or repairs made? no
iv. Erosion noticed on crest? no
v. Any visible settlement, misalignment or cracks? no

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? woods, brush, 1 large tree
- ii. Animal activity observed? no
- iii. Any obvious alterations or repairs made? no
- iv. Erosion observed on upstream slope? no
- v. Settlement or cracks visible in slope? no

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? trees, brush
- ii. Animal activity observed? no
- iii. Any obvious alterations or repairs made? no
- iv. Erosion observed on down stream slope? no
- v. Settlement or cracks visible in slope? no
- vi. Toe drains flowing? no toe drains
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: small clear seep at toe of dam

D. Primary Spillway

- i. Any visible deterioration of structure? no visible outlet structure
- ii. Is there an obvious need to repair or replace trash rack? na
- iii. Any noticeable problems with debris? na
- iv. Is valve or gate present? no

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? no outlet pipe
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? no
- ii. Animal activity observed? no
- iii. Any noticeable deterioration in the approach or discharge channel? no
- iv. Any visible deterioration of structure's crest? spillway is scoured red clay

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? _____

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

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.

D H E C



PROMOTE PROTECT PROSPER

Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

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December 18, 2012

Ken Tuck
Spartanburg Water System
P.O. Box 251
Spartanburg, SC 29304

Re: Inspection of **Dam D-3324**, Reservoir #1 Dam, Spartanburg County

Ken
Dear Mr. ~~Tuck~~:

As you are aware on December 12, 2012, SC DHEC conducted a routine inspection of the Spartanburg Water System Reservoir #1 dam in Spartanburg County. Your assistance and that of Mr. Gary Huntley, Drinking Water Treatment Manager, was much appreciated. I am enclosing a copy of the inspection report for the dam.

Overall the condition of the concrete dam is **Satisfactory**. It was noted some superficial resurfacing of sections on the backside of the dam had occurred since the previous inspection in September 2009. As understood, this was done in response to the detection of shallow cracks and voids. A very detailed Emergency Plan was provided during the inspection. Should this dam experience difficulty the agencies listed on the emergency notification plan could provide assistance.

If you have any questions, please call me at 864-596-3800.

Sincerely,

James West

James West
SC DHEC Region 2
Spartanburg EQC Office

Cc: John Poole, SC DHEC Bureau of Water – Dam Safety Program
Florence Hall, SC DHEC EQC Spartanburg

Hall
Garrett
Carter



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3324 & Hazard Class 2 B. Name of Dam: Reservoir #1
C. Inspection Date (12/12/20 12) & Time: 10:15 D. Date of Last Inspection: (9/16/2009)
E. Location-County/City: Sp 1 Sp 1 Chesnee West F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Spartanburg Water District - Ken Tuck
I. Contact Person (if different from above): Gary Huntley
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 578-2764 Other (864) 578-7251
K. Dam Owner's or Contact Person's mailing address: Gary Huntley Drinking Water Treatment Mgr
Address 1 P.O. Box 251
Address 2 (optional) 390 Spartanburg Water Works Rd, Chesnee SC
City Spartanburg, State SC Zip Code 29304-29323

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [checked] b) Fair [] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Concrete
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? Rehab in 2010
iv. Erosion noticed on crest? None
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Concrete
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? NA
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Concrete
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? Yes - resurfacing of small cracks and voids in 2010
- iv. Erosion observed on down stream slope? NA
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? NA
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: _____

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Numerous gates

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: No
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? NA
- ii. Animal activity observed? _____
- iii. Any noticeable deterioration in the approach or discharge channel? _____
- iv. Any visible deterioration of structure's crest? _____

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? No

vi. If applicable, any visible leakage below concrete spillway? No

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Dam built in 1925. 360' L, 15 tainter gates
50' High 777' pool
Had a hydro unit from the start.

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.

**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



South Carolina Department of Health and Environmental Control

RECEIVED

NOV 01 2013

SPARTANBURG EQC OFFICE

October 17, 2013

Chestnut Lake HOA
113 Ridgewood Drive
Inman, SC 29349

Re: Inspection of **Dam D-3336**, Chestnut Lake Dam, Spartanburg County

Dear Sir or Madam:

On October 14, 2013, SC DHEC conducted a routine inspection of your dam located off John Dodd Road. The dam appears to be in **fair** condition. There are some seeps near the outfall pipe that must be monitored. I am enclosing a copy of the inspection report of the dam.




We do not have a copy of your emergency alert notification plan on file. Please complete the attached form and return a copy. Keep the original copy. Should this dam experience difficulty and be endanger of failing, the impacted area downstream would need to be evacuated and downstream roads blocked. The agencies listed on the notification plan could provide assistance in doing this.

If you have any questions, please call me at 864-596-3800.

Sincerely

James West
SC DHEC BEHS Upstate Region - Spartanburg

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg – Region Engineer

_____	S. Turner		C. Carter
_____	S. Burnett	_____	M. Cann
_____	C. Carroll		S. Garrett
	F. Hall	_____	J. Hall
_____	S. Hammond	_____	K. Lancaster
_____	R. Mullinax	_____	S. Murdock
_____	J. West	_____	_____
_____	_____	_____	_____



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D 3336 & Hazard Class 2 B. Name of Dam: Chestnut Lake
C. Inspection Date (6/14/2013) & Time: 3:45 D. Date of Last Inspection: (1/1)
E. Location-County/City: Inman / Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Chestnut Lake HOA
I. Contact Person (if different from above): _____
J. Dam Owner's or Contact Person's Phone Numbers: Home () _____
 Office () _____
 Other () _____
K. Dam Owner's or Contact Person's mailing address:
Address 1 113 Ridgewood Drive
Address 2 (optional) _____
City Inman State SC Zip Code 29379

Section II (Dam Condition)

General Condition Assessment (Select one of the following):
a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest
i. Vegetation (grass, trees weeds)? grass
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Weeds
- ii. Animal activity observed? Two slides
- iii. Any obvious alterations or repairs made? None
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? grass and weeds
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? Yes - a couple of bare sections
A small seep at one bare spot. Tractor tire marks deep.
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? None Found

vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: 3 other seeps found w/in 20'
seeps have only a trickle flow. Lots of iron bacteria
of outlet pipe discharge

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? _____

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Just the above
mentioned seeps.
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Good

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? _____

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Re-seed and straw the bare spots on down slope. Monitor all seeps for changes.

James West

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.

**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



South Carolina Department of Health and Environmental Control

November 1, 2013

CMT I LLC
Allen Collins, Registered Agent
109 Andrew Drive
Seneca, SC 29678

Re: Inspection of **Dam D-3337**, Spartanburg County

Dear Mr. Collins:

On October 23, 2013, SC DHEC conducted a routine inspection of your dam located near Greer. I am enclosing a copy of the inspection report of the dam. The overall condition of the dam is **Fair**.

There is seepage all along the entire right toe of the rear slope. Even where there was no standing water, the ground was very soggy. Monitor this section closely for a worsening condition (ie. change in color or volume). Should significant change occur contact an engineer familiar with dam construction and safe operations. Additionally, stabilize all remaining bare ground.

Attached is a blank emergency alert notification plan. Please fill it out and return a copy to this office. Should this dam experience difficulty and be endanger of failing, the entities named on the form should be of assistance.

If you have any questions, please call me at 864-596-3800.

Sincerely

James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg - Region Engineer



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3337 & Hazard Class 2 B. Name of Dam: Collins Pond
 C. Inspection Date (6/23/2017) & Time: 2:30 D. Date of Last Inspection: (12/21/2016)
 E. Location-County/City: Greer / Spartanburg F. EQC Regional Office: Spartanburg
 G. Inspector's Name: James West
 H. Owner's Name: CMT I LLC (Per Sptbg Co. GIS)
 I. Contact Person (if different from above): Allen Collins (Reg Agent per S.C.F.S.)
 J. Dam Owner's or Contact Person's Phone Numbers: Home (____)____-____
 Office (____)____-____
 Other (____)____-____
 K. Dam Owner's or Contact Person's mailing address:
 Address 1 109 Andrew Drive
 Address 2 (optional) _____
 City Seneca State SC Zip Code 29678

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? grass w/ bare spots
 ii. Animal activity observed? None
 iii. Any obvious alteration or repairs made? None since outlet pipe change prior to 2016 inspection
 iv. Erosion noticed on crest? No
 v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, a few trees and bare spots
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass and small brush
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No drain found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Seepage all along rt rear toe of slope, one seep visibly flowing

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? _____
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? N

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No but barely distinguishable from rest of dam crest

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? None on file

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? NA

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? NA

Section IV (Conclusions)

General comments and recommendations:

Monitor the seepage closely.
Contact an engineer familiar w/ dam
construction if it worsens.

Re-seed bare ground

James West

Preliminary Dam Inspection Disclaimer:

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Low Hazard Dam Classification Inspection Form for South Carolina Regulated Dams Dams and Reservoirs Safety Act Regulations 72-1 through 72-9

Note: This form is only for use on current low hazard (class three) dams regulated by the Department of Health and Environmental Control in the State of South Carolina. The primary user of this form is for the use of Department staff members actively involved in reclassification inspections. The current policy is to evaluate the hazard potential of low hazard dams at least once every five years.

Date of Inspection: _____ SC Dam Inventory Number D _____ County: _____

Dam Name: _____

I. Dam Owner Information

Has ownership changed? _____ Yes _____ No (If yes, enter the new owners and their contact information below)

A. Owner/ Operator (Company or person): _____

Contact Person (if owner is company): _____

Phone: _____ Email: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

II. Site Information

A. Site Location (street address, nearest intersection, etc.): _____

Latitude: _____° _____' _____" N Longitude: - _____° _____' _____" W Tax map # (list all): _____

B. Is there any evidence of new development below the dam? _____ Yes _____ No

C. Do you think the hazard classification should be upgraded? _____ Yes _____ No

D. If yes for item II.C, what is your opinion of what the new classification should be? _____ Class 1 (High Hazard)

_____ Class 2 (Significant Hazard)

III. Signature

Please print your name, sign, and date on the lines below once the inspection and form have been completed. If assistance with determining the hazard classification was obtaining from Bureau of Water staff members, they will also need to complete this portion of the form.

Printed Name of Regional Inspector

Signature

Date of Signature

Printed Name of BOW Engineer

Signature

Date of Signature



South Carolina Department of Health
and Environmental Control

MEMORANDUM
Spartanburg Dam Safety Program

TO: John McMakin Pond File
D-3341

FROM: James West
BEHS - Spartanburg
Dam Safety Program

Date: May 30, 2014

RE: Dam Re-inspection
McMakin Pond Dam
Class 2
Spartanburg County

On December 11, 2013, a re-inspection of the John McMakin Pond Dam, D-3341, was conducted. The previous inspection on October 21, 2013, noted seepage on the left downstream toe and required a follow-up evaluation by an engineer. The visit was scheduled at the request of the owner, Mr. John McMakin. Mr. McMakin believed the seepage that was observed in October was from a source other than the pond and thus no engineered review would be necessary.

Mr. McMakin has noted the seepage himself over the past 5 decades. He said it has always been there and is not connected to the dam. Some vegetation in the area of the seepage had been cut as required after the October inspection. The reduced vegetation allowed for a better view of the seepage. The seepage does drain along the toe of the dam but originates on the slope adjacent to the left downstream slope.

Since the seepage is not from the pond and the dam does not appear adversely impacted by the drainage along the toe, no further action is necessary. The requirement for the third part engineer review is dropped.



South Carolina Department of Health and Environmental Control

CERTIFIED MAIL

November 22 2013

John McMakin Jr.
P.O. Box 243
Lyman, SC 29365

Re: Inspection of **Dam D-3341**, McMakin Lake, Spartanburg County

Dear Mr. McMakin:

On October 21, 2013, SC DHEC conducted a routine inspection of your dam, located off Holly Springs Road. I am enclosing a copy of the inspection report of the dam.

Overall, the dam appears to be in **poor** condition and has several deficiencies. The downslope side of the dam has numerous large trees and an undulating topography. Trees and their root systems can become a problem for dams over time. If blown over, trees can uproot a large quantity of soil causing significant damage to the structure of the dam. Likewise, the roots can become a pathway for water movement through the dam.

Significant seepage is occurring along the toe of the downslope. This seepage is much worse on the left side of the outlet pipe. Flow rate could not be determined but was sufficient enough to be heard.

You will need to contact a licensed engineer, familiar with dam construction and maintenance, to conduct a detailed inspection pursuant to the requirements of Regulation 72-4, Dams and Reservoirs Safety Act Regulations. Please have the engineer contact the Department regarding the site conditions prior to issuance of the report of the detailed inspection.

Also, we do not have a copy of a current Emergency Notification Plan in the Department file on this dam. Please complete the attached form and return it to us as quickly as possible. Should this dam fail, the agencies listed on the notification plan could provide assistance.

The detailed inspection must be initiated within thirty (30) days of the date of this letter, and the engineer's report filed with the Department within sixty (60) days. A permit application for a permit to conduct repairs and make corrections of deficiencies must accompany the engineer's report. These repairs and corrections are required by R. 72-4, *Dams and Reservoirs Safety Act Regulations*.

Failure to initiate the detailed inspection and perform necessary repairs and corrections constitute violations of the Dams and Reservoirs Safety Act, S.C. Code Ann § 49-11-150 and § 49-11-170(C) (2008 and Supp. 2012),

as well as the *Dams and Reservoirs Safety Act Regulations*, 9 S.C. Code Ann. Regs. 72-4(C)(3) (2012). Enforcement actions for violations of the Dams and Reservoirs Safety Act and the *Dams and Reservoirs Safety Act Regulations* include, but are not limited to civil actions and financial penalties.

If you have any questions, please call me at 864-596-3800.

Sincerely,

A handwritten signature in cursive script that reads "James West".

James West
SC DHEC Upstate Region - Spartanburg EQC Office

Cc: John Poole, SC DHEC Bureau of Water – Dam Safety Program
Florence Hall, SC DHEC BEHS Spartanburg District Engineer



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D 3341 & Hazard Class 2 B. Name of Dam: McMakin Pond
C. Inspection Date (10/21/2013) & Time: 2:30 D. Date of Last Inspection: (12/7/2020)
E. Location-County/City: Lyman / Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: John McMakin Jr
I. Contact Person (if different from above): _____
J. Dam Owner's or Contact Person's Phone Numbers: Home (____) ____-____
 Office (____) ____-____
 Other (____) ____-____
K. Dam Owner's or Contact Person's mailing address:
Address 1 102 Murphy Rd Lyman SC 29365
Address 2 (optional) PO Box 243
City Lyman State SC Zip Code 29365

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest
i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Trees
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? Undulating topography
- vi. Toe drains flowing? None Found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Seeps on both sides of outlet pipe. The left side is of greater concern.

D. Primary Spillway

- i. Any visible deterioration of structure? No - changed to a plastic pipe prior to 2010
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? No

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? None but seepage that drains to area of outlet pipe
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Okay

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

D-3341

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes but dated to 1983 and was signed by Frank McMakin

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? NA

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? NA

Section IV (Conclusions)

General comments and recommendations:

See page along toe of down slope is of considerable concern. The flow on the left side can be heard! The down slope of the dam has some large trees and undulating topography. Contact an engineer familiar with dam construction and safety. Have the engineer contact me.

James West

Preliminary Dam Inspection Disclaimer:

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**Low Hazard Dam Classification Inspection Form for South Carolina
Regulated Dams
Dams and Reservoirs Safety Act Regulations 72-1 through 72-9**

Note: This form is only for use on current low hazard (class three) dams regulated by the Department of Health and Environmental Control in the State of South Carolina. The primary user of this form is for the use of Department staff members actively involved in reclassification inspections. The current policy is to evaluate the hazard potential of low hazard dams at least once every five years.

Date of Inspection: _____ SC Dam Inventory Number D_____ County: _____

Dam Name: _____

I. Dam Owner Information

Has ownership changed? _____ Yes _____ No (If yes, enter the new owners and their contact information below)

A. Owner/ Operator (Company or person): _____

Contact Person (if owner is company): _____

Phone: _____ Email: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

II. Site Information

A. Site Location (street address, nearest intersection, etc.): _____

Latitude: _____° _____' _____" N Longitude: - _____° _____' _____" W Tax map # (list all): _____

B. Is there any evidence of new development below the dam? _____ Yes _____ No

C. Do you think the hazard classification should be upgraded? _____ Yes _____ No

D. If yes for item II.C, what is your opinion of what the new classification should be? _____ Class 1 (High Hazard)
_____ Class 2 (Significant Hazard)

III. Signature

Please print your name, sign, and date on the lines below once the inspection and form have been completed. If assistance with determining the hazard classification was obtaining from Bureau of Water staff members, they will also need to complete this portion of the form.

Printed Name of Regional Inspector

Signature

Date of Signature

Printed Name of BOW Engineer

Signature

Date of Signature



RECEIVED

NOV 07 2013

SPARTANBURG EQC OFFICE

South Carolina Department of Health and Environmental Control

October 17, 2013

Mr. Satpal Rathie
113 York Hill Drive
Cary, NC 27513

Re: Inspection of **Dam D-3342**, Startex Mill Dam, Spartanburg County

Dear Mr. Rathie:

On October 14, 2013, SC DHEC conducted a routine inspection of your dam located in Startex. The dam appears to be in **good** condition. I am enclosing a copy of the inspection report of the dam.

We do not have a copy of your emergency alert notification plan on file. Should this dam experience difficulty and be endanger of failing, the impacted area downstream would need to be evacuated and downstream roads blocked. The agencies listed on the notification plan could provide assistance in doing this.

If you have any questions, please call me at 864-596-3800.

Sincerely

James West
SC DHEC BEHS Upstate Region - Spartanburg

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg – Region Engineer

_____ S. Turner	<i>al</i> _____ C. Carter
_____ S. Burnett	_____ M. Cann
_____ C. Carroll	_____ S. Garrett
<i>ABS</i> _____ F. Hall	_____ J. Hall
_____ S. Hammond	_____ K. Lancaster
_____ R. Mullinax	_____ S. Murdock
_____ J. West	_____
_____	_____



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D3342 & Hazard Class 2
B. Name of Dam: Startex Mill Dam
C. Inspection Date (10/14/2013) & Time: 1145
D. Date of Last Inspection: (/ /)
E. Location-County/City: Startex / Spartanburg
F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Satpal Rathie
I. Contact Person (if different from above): _____
J. Dam Owner's or Contact Person's Phone Numbers:
Home (____)____-____
Office (____)____-____
Other (____)____-____
K. Dam Owner's or Contact Person's mailing address:
Address 1 113 York Hill Drive
Address 2 (optional) _____
City Cary State NC Zip Code 27513-_____

Section II (Dam Condition)

General Condition Assessment (Select one of the following):
a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest
i. Vegetation (grass, trees weeds)? old mill stone dam
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? NA
v. Any visible settlement, misalignment or cracks? NO

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Not visible
- ii. Animal activity observed? NA
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Stone
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? NA
- v. Settlement or cracks visible in slope? NO
- vi. Toe drains flowing? _____
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes - several seeps through the old stone joints

D. Primary Spillway

- i. Any visible deterioration of structure? See iv. No.
- ii. Is there an obvious need to repair or replace trash rack? NA
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Gates are the primary structures

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NA
- ii. Describe any deflection or damage observed to the pipe: NA
- iii. Visible condition of outlet channel: NA

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No - over top of dam
- ii. Animal activity observed? NO
- iii. Any noticeable deterioration in the approach or discharge channel? NA
- iv. Any visible deterioration of structure's crest? NA

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes
1999

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

James West

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.

**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



South Carolina Department of Health and Environmental Control

November 13, 2013

Dobbie Ltd Partnership
12 Woodland Way Circle
Greenville, SC 29601

Re: Inspection of **Dam D-3343**, Dobson Pond Dam, Spartanburg County

Dear Sirs:

On October 22, 2013, SC DHEC conducted a routine inspection of your dam located Genoble Road near Greer. The dam appears to be in **fair** condition. I am enclosing a copy of the inspection report of the dam.

Please note, no primary spillway pipe could be located and the pond appears to be no more than half full. Since water is going to the outfall in the Francis Kirby Pond, this would indicate the pipe is likely broken.

We do not have a copy of your emergency alert notification plan (EAP) on file. Please complete the attached EAP and return to us a copy. Should this dam experience difficulty and be endanger of failing, the agencies listed on the notification plan could provide assistance.

If you have any questions, please call me at 864-596-3800.

Sincerely

James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg – District Engineer



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3243 & Hazard Class 2 B. Name of Dam: Dobson Pond
C. Inspection Date (12/22/2013) & Time: 1600 D. Date of Last Inspection: (12/16/2010)
E. Location-County/City: Greer / Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Debbie Limited Partnership
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home () Office () Other ()
K. Dam Owner's or Contact Person's mailing address:
Address 1 12 Woodland Way Circle
Address 2 (optional)
City Greenville State SC Zip Code 29601

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Weeds + Trees
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Trees
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? Yes - where trees have tapped over
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? None Found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? Structure in pond not seen
- ii. Is there an obvious need to repair or replace trash rack? _____
- iii. Any noticeable problems with debris? _____
- iv. Is valve or gate present? _____

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? Outlet pipe is in the Francis Kirby Pond
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: NA

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None Found
- ii. Animal activity observed? _____
- iii. Any noticeable deterioration in the approach or discharge channel? _____
- iv. Any visible deterioration of structure's crest? _____

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Pond is less than 50% full yet the outlet pipe is discharging. This indicates the primary outlet pipe is broken. The rating is FAIR only because the lack of water prevents any impacts below. Huge trees on both sides of the dam are a problem. As they die and topple the dam will be further compromised.

James West

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.



**Low Hazard Dam Classification Inspection Form for South Carolina
Regulated Dams
Dams and Reservoirs Safety Act Regulations 72-1 through 72-9**

Note: This form is only for use on current low hazard (class three) dams regulated by the Department of Health and Environmental Control in the State of South Carolina. The primary user of this form is for the use of Department staff members actively involved in reclassification inspections. The current policy is to evaluate the hazard potential of low hazard dams at least once every five years.

Date of Inspection: _____ SC Dam Inventory Number D _____ County: _____

Dam Name: _____

I. Dam Owner Information

Has ownership changed? _____ Yes _____ No (If yes, enter the new owners and their contact information below)

A. Owner/ Operator (Company or person): _____

Contact Person (if owner is company): _____

Phone: _____ Email: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

II. Site Information

A. Site Location (street address, nearest intersection, etc.): _____

Latitude: _____° _____' _____" N Longitude: - _____° _____' _____" W Tax map # (list all): _____

B. Is there any evidence of new development below the dam? _____ Yes _____ No

C. Do you think the hazard classification should be upgraded? _____ Yes _____ No

D. If yes for item II.C, what is your opinion of what the new classification should be? _____ Class 1 (High Hazard)
_____ Class 2 (Significant Hazard)

III. Signature

Please print your name, sign, and date on the lines below once the inspection and form have been completed. If assistance with determining the hazard classification was obtaining from Bureau of Water staff members, they will also need to complete this portion of the form.

_____	_____	_____
Printed Name of Regional Inspector	Signature	Date of Signature
_____	_____	_____
Printed Name of BOW Engineer	Signature	Date of Signature



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

August 18, 2015

Max Thompson
PO Box 451
Piedmont SC 29673

Re: Reinspection of Dam D-3346,
Silver Lake Dam, Spartanburg County

Dear Mr. Thompson:

On April 28, 2015 a routine reinspection of the Silver Lake Dam was performed. I am enclosing a copy of the inspection report. The following deficiencies were noted:

-The dam needs to be cleared of brush and trees smaller than 4 inches in diameter. Once the dam is cleared, an assessment should be made by a Professional Engineer to determine the status of the dam. The assessment should include a tree removal plan for trees larger than 4 inches in diameter. The assessment should also include evaluation and repair of the areas impacted by the large dead trees on the dam.

-The trash rack at the outlet spillway should be cleared of debris and trash.

This dam is given an overall Poor assessment. Please complete the requested items and submit to this office within 90 days of date of this letter. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: John Poole, P.E. – Dams and Reservoir Safety, BW

ENGINEERS EXPERIENCED IN
DAM DESIGN WORK

Stephen L. Whitesides, PE
CDM
5400 Glenwood Ave, Suite 300
Raleigh, NC 27612
(919)325-3556

Schnabel Engineering
104 Corporate Blvd Suite 410
W. Columbia, SC 29169
(803) 796-6240

William A. Timmons, PE
16-C North Brooks St
PO Box 927
Manning, SC
(803) 435-2647

Hass & Hildebrand, Inc.
33 Greenville St SW
P. O. Box 3276
Aiken, SC 29802
(803)649-1316

H. Grady Adkins, Jr., P.E.
Southeast Regional Office
Paul C. Rizzo Associates, Inc.
101 Westpark Boulevard, Suite B
Columbia, SC 29210
(803) 750-9773 x 12
FAX (803) 750-9116

Dan Creed, P.E.
Heritage Engineering, Inc.
10719 Wilson Blvd.
Blythewood, SC 29016
(803) 714-9632

Law Engineering & Envir. Svcs
720 Gracern Road
Columbia, SC 29201
(803)798-1200

Howard Leonard, P.E.
Peritus Civil
18 Pimlico Court
P. O. Box 16146
Greenville, SC 29607
(864) 288-5312

Pat Gambill
WK Dickson & Co, Inc.
1001 Pinnacle Pt Dr, Suite 110
Columbia, SC 29223
Office (803) 786-4261

Piedmont Olsen Hensley
420 Park Avenue
P. O. Box 1717
Greenville, SC 29602
(864)242-1717

Chao and Assoc., Inc.
3936 Sunset Boulevard
West Columbia, SC 29169
(803) 791-8420

Gene Dobbins (Thomas Eugene Dobbins)
200 E Camperdown Way
Suite 200 B
Greenville, SC
864-467-0811

William C. Cooper, P.E.
Consulting Engineer
1713-B Woodcreek Farms Road
Elgin, SC 29045
(803)699-7728

Don Worley, P.E.
Matrix Engineering
912 South Pine Street
Spartanburg, SC 29302
(864) 583-6274

S&ME
301 Zima Park Drive
Spartanburg, SC 29301
(864) 574-2360

Note: This list is furnished as a courtesy only. Firms listed here have successfully designed new or repair projects for dams. The inclusion of any firm on this list is not an endorsement of that firm. Likewise, failure to include any firm on this list does not mean the firm is not qualified to do design work on dams.



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

- A. Dam Number: D 3346 & Hazard Class C2
- B. Name of Dam: Silver Lake Dam
- C. Inspection Date (04/28/2015) & Time: 12:15
- D. Date of Last Inspection: (10/31/2012)
- E. Location-County/City: Spartanburg / Reidville
- F. EQC Regional Office: Spartanburg
- G. Inspector's Name: Mark Cann
- H. Owner's Name: Max Thompson
- I. Contact Person (if different from above): _____
- J. Dam Owner's or Contact Person's Phone Numbers:
- Home (____) _____ - _____
- Office (____) _____ - _____
- Other (864) 230 - 4373
- K. Dam Owner's or Contact Person's mailing address:
- Address 1 PO Box 451
- Address 2 (optional) _____
- City Piedmont, State SC Zip Code 29673 - _____

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Overgrown with brush and large trees
- ii. Animal activity observed? No
- iii. Any obvious alteration or repairs made? No
- iv. Erosion noticed on crest? No
- v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Overgrown with brush and large trees
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Overgrown with brush and large trees.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? One area near South end of the dam.
- vi. Toe drains flowing? No toe drains.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: There is standing water at the base of the dam from unknown source.

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? Yes - need to clear debris from the outlet spillway structure.
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No pipe discharge
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No. Requested in previous inspection but not supplied.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

This dam is in overall Poor condition with many large trees growing in and on the dam. A significant number of these large trees have died with unknown effect on the dam integrity. The dam needs to be evaluated by an engineer familiar with this type of structure and a plan developed for remediation and repair of the dam.

Preliminary Dam Inspection Disclaimer:

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W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

May 27, 2015

Pam Bishop
Twin Lakes
162 Lakeland Ct
Moore SC 29369

Re: Reinspection of Dam D-3347
Twin Lakes Dam, Spartanburg County

Dear Ms. Bishop:

On April 28, 2015, I conducted a routine reinspection of the Twin Lakes Dam.

I am enclosing a copy of my inspection report on the dam. Overall, the dam appears to be in good condition. You should continue your current maintenance program.

A copy of the Emergency Notification Plan is in our file. Should the dam experience difficulty, the appropriate emergency officials should be notified. The agencies listed on the plan can provide assistance in determining what actions to take for protection of the public health and downstream property.

Please give me a call (864-596-3800) if you have any questions.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC

cc: John Poole, P.E. – Dams and Reservoir Safety, BW

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grassed with rip-rap at water line.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grassed - condition OK.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No toe drains.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None observed.

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Not visible

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Yes - landscaping and vegetation in the Emergency Spillway
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Updated 11/5/2012

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Dam appears to be well-maintained and in good condition.

Preliminary Dam Inspection Disclaimer:

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Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3349 & Hazard Class C2 B. Name of Dam: Granny Peach Assoc Dam
C. Inspection Date (04/28/2015) & Time: 13:30 D. Date of Last Inspection: (01/06/2010)
E. Location-County/City: Spartanburg / Reidville F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name: Timothy Rhymer
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 877 - 1764 Office () - Other (864) 303 - 6792
K. Dam Owner's or Contact Person's mailing address: Address 1 819 Mount Vernon Rd Address 2 (optional) City Greer State SC Zip Code 29651

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grassed, OK
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

May 12, 2015

Timothy Rhymer
819 Mount Vernon Rd
Greer SC 29651

Re: Reinspection of Dam D-3349
Granny Peach Associates Dam, Spartanburg County

Dear Sir:

On April 28, 2015, I conducted a routine reinspection of the Granny Peach Associates Pond Dam.

I am enclosing a copy of my inspection report on the dam. Overall, the dam appears to be in fair condition. Your current maintenance program should continue. There are a couple of trees on the dam that are larger than 4" in diameter; if these trees become damaged or diseased they should be properly removed.

A copy of the Emergency Notification Plan is in our file. Should the dam experience difficulty, the appropriate emergency officials should be notified. The agencies listed on the plan can provide assistance in determining what actions to take for protection of the public health and downstream property.

You will be notified when the next reinspection of this dam is scheduled.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

cc: John Poole, P.E. – Dams and Reservoir Safety, BW

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? A few large trees.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grassed, OK
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No toe drains.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No outlet structure.
- ii. Is there an obvious need to repair or replace trash rack? _____
- iii. Any noticeable problems with debris? _____
- iv. Is valve or gate present? _____

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No outlet pipe.
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? OK.
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? Channel is unlined compacted clay, irregular formation but appears to be stable.
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? In file.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? 12/11/2012

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? yes

Section IV (Conclusions)

General comments and recommendations:

This dam is in generally fair condition. Water discharges thru an irregular emergency spillway that needs to be monitored to insure erosion is not increasing. The dam is mostly grassed, but a couple of trees on the dam that are over 4" in diameter should be monitored and properly removed if they become diseased or dead.

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.



South Carolina Department of Health and Environmental Control

December 4, 2013

Spartanburg County Parks and Recreation Dept
9039 Fairforest Rd
Spartanburg, SC 29301

Re: Inspection of **Dam D-3352, Cleveland Park Dam**, Spartanburg County

To Whom It May Concern:

On November 4, 2013, I conducted a routine inspection of the Cleveland Park Dam. I am enclosing a copy of my inspection report of the dam. The overall condition of the dam was **satisfactory**.

We have a copy of your emergency alert notification plan on file. Should this dam experience difficulty and be endanger of failing, the agencies listed on the alert notification plan could provide assistance. If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Upstate Region - Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg – District Engineer



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3352 & Hazard Class 2 B. Name of Dam: Cleveland Park
C. Inspection Date (11/08/2013) & Time: 15:00 D. Date of Last Inspection: 08/2010
E. Location-County/City: Sptbg Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: City of Spartanburg County Parks & Recreation
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home Office (864) 562-4150 Other
K. Dam Owner's or Contact Person's mailing address: Address 1 9039 Fairforest Rd Address 2 (optional) City Spartanburg State SC Zip Code 29304

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [checked] b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Concrete
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Concrete
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Concrete
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? NA
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? No

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NA
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? NA
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? _____
- iv. Any visible deterioration of structure's crest? _____

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? _____

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Looks good

James West

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.



Low Hazard Dam Classification Inspection Form for South Carolina Regulated Dams
Dams and Reservoirs Safety Act Regulations 72-1 through 72-9

Note: This form is only for use on current low hazard (class three) dams regulated by the Department of Health and Environmental Control in the State of South Carolina. The primary user of this form is for the use of Department staff members actively involved in reclassification inspections. The current policy is to evaluate the hazard potential of low hazard dams at least once every five years.

Date of Inspection: 10/22/2013 SC Dam Inventory Number D 3343 County: Spartanburg
Dam Name: Dobson Pond

I. Dam Owner Information

Has ownership changed? Yes No (If yes, enter the new owners and their contact information below)

A. Owner/ Operator (Company or person): _____

Contact Person (if owner is company): _____

Phone: _____ Email: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

*

II. Site Information

A. Site Location (street address, nearest intersection, etc.): _____

Latitude: ____° ____' ____" N Longitude: - ____° ____' ____" W Tax map # (list all): _____

B. Is there any evidence of new development below the dam? Yes No

C. Do you think the hazard classification should be upgraded? Yes No

D. If yes for item II.C, what is your opinion of what the new classification should be? Class 1 (High Hazard)
 Class 2 (Significant Hazard)

III. Signature

Please print your name, sign, and date on the lines below once the inspection and form have completed. If assistance with determining the hazard classification was obtaining from Bureau of Water staff members, they will also need to complete this portion of the form.

Printed Name of Regional Inspector

Signature

Date of Signature

Printed Name of BOW Engineer

Signature

Date of Signature



South Carolina Department of Health and Environmental Control

December 6, 2013

John T. Taylor, Esq
360 Grove Street
Charleston, SC 29403

Re: Inspection of **Dam D-3355, Virginia Taylor Dam**, Spartanburg County

Mr. Taylor:

On November 19, 2013, I conducted a routine inspection of the Virginia Taylor Dam on Old Georgia Road near Roebuck. I am enclosing a copy of my inspection report of the dam. The overall condition of the dam was **fair**.

As you know the dam is greatly improved from the 2010 routine inspection. The dam was raised slightly, the emergency spillway was raised and the erosion repaired, and the primary outlet pipe was modified considerably. These modifications have improved flow through the outlet pipe and kept the emergency spillway from being utilized on a daily basis.

Please note, though many trees have been removed, there are still numerous small trees on the dam slopes. Trees with diameters of less than 6 inches should be removed from both the front and back slopes.

Should this dam experience difficulty and be endanger of failing, the agencies listed on your emergency notification plan could provide assistance. If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Upstate Region - Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg – District Engineer



Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3355 & Hazard Class 2
B. Name of Dam: Old Georgia Rd Virginia Taylor
C. Inspection Date (11/19/2013) & Time: 13:45
D. Date of Last Inspection: (02/03/2010)
E. Location-County/City: Roebuck/Spartanburg
F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: John Taylor
I. Contact Person (if different from above): Tom Foster
J. Dam Owner's or Contact Person's Phone Numbers:
Home () - - - -
Office () - - - -
Other (864)415 - 2037
K. Dam Owner's or Contact Person's mailing address:
Address 1 360 Grove St
Address 2 (optional) _____
City Charleston State SC Zip Code 29403

Section II (Dam Condition)

General Condition Assessment (Select one of the following):
a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest
i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? Dam height raised slightly
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, weeds, shrubs & small trees
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees and Weeds
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? None Found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? None
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Fair - some erosion may be occurring at curve closest to road

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No - discharge channel filled in and grassed / rip rapped
- iv. Any visible deterioration of structure's crest? No - ES brought into compliance and properly functioning

**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? None

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? _____

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Site is greatly improved from 2010 inspection. Some small trees are still growing on both sides of the dam. Continue cutting them.

James West

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.



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D 3357 & Hazard Class C2 B. Name of Dam: Zimmerman Lake Dam
 C. Inspection Date (11/01/2012) & Time: 13:00 D. Date of Last Inspection: (11/09/2009)
 E. Location-County/City: Spart. / Spart. F. EQC Regional Office: R2 Spart.
 G. Inspector's Name: Mark Cann
 H. Owner's Name: Lake Will Zimmerman, Inc
 I. Contact Person (if different from above): _____
 J. Dam Owner's or Contact Person's Phone Numbers: Home (____) ____ - ____
 Office (____) ____ - ____
 Other (____) ____ - ____
 K. Dam Owner's or Contact Person's mailing address:
 Address 1 P.O. Box 3565
 Address 2 (optional) _____
 City Spartanburg, State SC Zip Code 29304

Section II (Dam Condition)

General Condition Assessment (Select one of the following):
 a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest
 i. Vegetation (grass, trees weeds)? _____
 ii. Animal activity observed? No
 iii. Any obvious alteration or repairs made? No
 iv. Erosion noticed on crest? No
 v. Any visible settlement, misalignment or cracks? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? _____

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

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.

- b) 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.
- c) 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.
- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
- e) 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.

Section III (Dam Inspection Checklist):

This section is self-explanatory and guides the inspector through the inspection process. Follow the dam inspection checklist to complete the inspection. Mark any deficiencies observed during the inspection. If there were the deficiencies reported during the last inspection cycle check to see if they were corrected. If items are not applicable to the inspection of the dam, mark not applicable. If the dams has issues that are not covered in this section of the form make note of them in section IV.

Section IV(Conclusions):

Use the space to list additional responsible parties (dam owners) and issues found during the inspection that are not addressed in section III, as well as any general comments and recommendations generated during the inspection.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after which the inspections were performed. The report will be filed in the Bureau of Water's file room and will be retained for at least three years after the Department certifies the removal of the inspected dam.



South Carolina Department of Health and Environmental Control

December 10, 2013

Paul Cote
1016 Arden Way
Spartanburg, SC 29306

Re: Inspection of **Dam D-3361, Park Lake Dam**, Spartanburg County

Mr. Cote:

On November 21, 2013, I conducted a routine inspection of the Park Lake dam off Pinecrest Road in Spartanburg. I am enclosing a copy of my inspection report of the dam. The overall condition of the dam was **fair**.

As you know the emergency spillway has become the primary outlet. The traditional outlet pipe has no flow. Water does, however, routinely flow from the seep pipe. Additionally water is seeping from the toe of the slope roughly 80' right of the outlet pipe. These two discharges must be monitored for any increase in flow or the movement of sediment through the dam structure.

Please note, that while the dam crest and most of the downslope has been well maintained, there are still numerous small trees at the bottom 15% of the slope and along the fence. Tree roots can become a pathway for water seeping through the dam. Trees with diameters of less than 6 inches should be removed from both sections.

We do not have an updated copy of your emergency alert notification plan on file. Please complete the notification plan sheets enclosed and return one to us. Should this dam experience difficulty and be endanger of failing, the agencies listed on the notification plan could provide assistance in doing this. If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Upstate Region - Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg – District Engineer



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D 3361 & Hazard Class 2 B. Name of Dam: Park Lake
C. Inspection Date (11/2/13) & Time: 14:00 D. Date of Last Inspection: (11/20/10)
E. Location-County/City: Spthg / Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Park Lake Inc
I. Contact Person (if different from above): Paul Cote (Registered Agent)
J. Dam Owner's or Contact Person's Phone Numbers: Home (864)579-0535
 Office () - - - - -
 Other () - - - - -
K. Dam Owner's or Contact Person's mailing address:
Address 1 1016 Arden Way
Address 2 (optional) _____
City Spartanburg State SC Zip Code 29302 - - - - -

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Weeds, bushes
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Mostly grass but last 15-20
of slope is wooded.
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? NO
- vi. Toe drains flowing? Yes
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Yes - significant seepage
to the rt of primary outlet
pipe (~80').

D. Primary Spillway

- i. Any visible deterioration of structure? No structure Found
- ii. Is there an obvious need to repair or replace trash rack? No TR Found
- iii. Any noticeable problems with debris? NA
- iv. Is valve or gate present? None Found

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? None
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Good

F. Auxilliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None - ES is the primary outlet
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? No

vi. If applicable, any visible leakage below concrete spillway? No

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes 1983

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Y - 1982

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Trees at spillway fence need to be cut.
Trees at toe of slope should be cut (<6" in diameter). Larger trees can remain.

Monitor the seepage to determine if it increases in flow or adds fill material from the dam.

Update the EAP.

James West

Preliminary Dam Inspection Disclaimer:

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**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

August 18, 2015

Pierce Acres Lake HOA
Attn: Russel Floyd
PO Box 1150
Drayton SC 29307

Re: Reinspection of Dam D-3363,
Pierce Acres Lake Dam, Spartanburg County

Dear Mr. Floyd:

On May 28, 2015 a routine reinspection of the Pierce Acres Lake Dam was performed. I am enclosing a copy of the inspection report. The following deficiencies were noted:

-The dam needs to be cleared of brush and trees smaller than 4 inches in diameter. Once the dam is cleared, an assessment should be made by a Professional Engineer to determine the status of the dam. The assessment should include a tree removal plan for trees larger than 4 inches in diameter.

-There is considerable plant and yard debris being dumped on and below the dam. This activity should be prohibited and the debris on the dam removed.

This dam is given an overall Fair assessment. Please complete the requested items and submit to this office within 90 days of date of this letter. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: John Poole, P.E. – Dams and Reservoir Safety, BW



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3363 & Hazard Class C2 B. Name of Dam: Pierce Acres Dam
C. Inspection Date (05/28/2015) & Time: 12:30 D. Date of Last Inspection: (11/05/2012)
E. Location-County/City: Spartanburg / Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name: Pierce Acres Lake HOA
I. Contact Person (if different from above): Russel Floyd
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 579 - 1463
Office () -
Other () -
K. Dam Owner's or Contact Person's mailing address:
Address 1 509 Mockingbird Lane
Address 2 (optional) PO Box 1150
City Drayton State SC Zip Code 29307 -

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass, brush
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? Some minor
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees, brush, plant debris dumped in area.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No toe drains.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? OK
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: OK
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Large tree and a gazebo
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes, in file.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes, 2012

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Dam is in overall Fair condition. The downstream slope has a lot of large trees and brush growing on it, and a lot of plant and

yard debris is being dumped on the dam. The local homeowners should be cautioned to dispose of this debris properly

elsewhere, and the HOA should develop a plan to clear the downstream slope and repair the dam after clearing.

This plan should be developed by a qualified engineer and submitted to the Department for approval prior to any clearing

activity.

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.

ENGINEERS EXPERIENCED IN
DAM DESIGN WORK

Stephen L. Whitesides, PE
CDM
5400 Glenwood Ave, Suite 300
Raleigh, NC 27612
919)325-3556

Schnabel Engineering
104 Corporate Blvd Suite 410
W. Columbia, SC 29169
803) 796-6240

William A. Timmons, PE
6-C North Brooks St
PO Box 927
Manning, SC
803) 435-2647

Hass & Hildebrand, Inc.
13 Greenville St SW
P. O. Box 3276
Aiken, SC 29802
803)649-1316

W. I. Grady Adkins, Jr., P.E.
Southeast Regional Office
Paul C. Rizzo Associates, Inc.
101 Westpark Boulevard, Suite B
Columbia, SC 29210
803) 750-9773 x 12
FAX (803) 750-9116

Dan Creed, P.E.
Heritage Engineering, Inc.
10719 Wilson Blvd.
Mythwood, SC 29016
803) 714-9632

Law Engineering & Envir. Svcs
720 Gracern Road
Columbia, SC 29201
(803)798-1200

Howard Leonard, P.E.
Peritus Civil
18 Pimlico Court
P. O. Box 16146
Greenville, SC 29607
(864) 288-5312

Pat Gambill
WK Dickson & Co, Inc.
1001 Pinnacle Pt Dr, Suite 110
Columbia, SC 29223
Office (803) 786-4261

Piedmont Olsen Hensley
420 Park Avenue
P. O. Box 1717
Greenville, SC 29602
(864)242-1717

Chao and Assoc., Inc.
3936 Sunset Boulevard
West Columbia, SC 29169
(803) 791-8420

Gene Dobbins (Thomas Eugene Dobbins)
200 E Camperdown Way
Suite 200 B
Greenville, SC
864-467-0811

William C. Cooper, P.E.
Consulting Engineer
1713-B Woodcreek Farms Road
Elgin, SC 29045
(803)699-7728

Don Worley, P.E.
Matrix Engineering
912 South Pine Street
Spartanburg, SC 29302
(864) 583-6274

S&ME
301 Zima Park Drive
Spartanburg, SC 29301
(864) 574-2360

Note: This list is furnished as a courtesy only. Firms listed here have successfully designed new or repair projects for dams. The inclusion of any firm on this list is not an endorsement of that firm. Likewise, failure to include any firm on this list does not mean the firm is not qualified to do design work on dams.

- ___ S. Turner
- ___ S. Burnett
- ___ C. Carroll
- F. Hall
- ___ S. Hammond
- ___ R. Mullinax
- ___ J. West
- Pierce Acres*
- DAM, D.

- C. Carter
- M. Car
- S. Garrett
- ___ K. Lancaster
- ___ S. Murdoch

**S.C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
DAMS AND RESERVOIRS SAFETY PROGRAM
SURVEILLANCE PLAN AND EMERGENCY NOTIFICATION PLAN**

RECEIVED

DEC 18 2012

S.C. DHEC
REGION 2
SPARTANBURG, SC

Spartanburg County

AS OWNER MANAGER OPERATOR (Please Check One)

Of the above reference dam, the person(s) named below are responsible for safe maintenance and operation of the above dam and reservoir and are responsible for implementing the following Surveillance Plan and the following Emergency Notification Plan:

SURVEILLANCE PLAN

Visual inspections will be performed frequently to detect any major changes, which may endanger the dam such as settlement, erosion, cracking and earth movement. Evidence of seepage on the downstream slope, at the toe and downstream from the toe, will be monitored to detect any increase in flow or movement of soil particles. The Dams and Reservoirs Safety District Engineer, at 864-596-3800 will be notified if any of the above symptoms are found.

EMERGENCY NOTIFICATION PLAN

In the event a major flood or hurricane is forecast, the dam will be monitored, and if the dam appears to be in danger from overtopping or if failure appears imminent because of other problems, the following state and local officials will be notified and the dam will be kept under constant surveillance until the proper authorities arrive to protect the general public.

1.	South Carolina Highway Patrol	----- 587-4702
2.	Local Highway Maintenance Engineer <i>SC DOT</i>	----- 587-4725
3.	Local Police Department, <u>Emergency Preparedness</u> personnel, and other county or town officials	----- 595-5365
4.	S.C. Department of Health and Environmental Control, Columbia, SC John Poole <i>(803)253-6488 is 24hr #</i>	(803) 898-4212

Additionally, the dam owner or his representative will notify the following downstream property owners. (This space is provided for the dam owner or his representative to complete, as this is his responsibility under the SC Dams and Reservoirs Safety Act Regulations.)

Person(s) responsible for implementing Surveillance Plan and Emergency Notification Plan:

NAME:	DATE:	TELEPHONE:
<i>Tray Pierce</i>	<i>12/6/2012</i>	<i>(864) 680-8404</i>



Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

October 6, 2015

Mr. Charles G. Liles
391 Stewart Rd
Spartanburg SC 29306

Re: Reinspection of Dam D-3366,
Liles Pond Dam, Spartanburg County

Dear Mr. Liles:

On September 8, 2015 a routine reinspection of the Liles Pond Dam was performed. I am enclosing a copy of the inspection report. The following deficiencies were noted:

-The dam needs to be cleared of brush and trees smaller than 4 inches in diameter. Once the dam is cleared, an assessment should be made by a Professional Engineer to determine the status of the dam. The assessment should include a tree removal plan for trees larger than 4 inches in diameter.

This dam is given an overall Fair assessment. Please complete the requested items and submit to this office within 90 days of date of this letter. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: David Graves – Dams and Reservoir Safety, BW

ENGINEERS EXPERIENCED IN
DAM DESIGN WORK

Stephen L. Whitesides, PE
CDM
5400 Glenwood Ave, Suite 300
Raleigh, NC 27612
(919)325-3556

Schnabel Engineering
104 Corporate Blvd Suite 410
W. Columbia, SC 29169
(803) 796-6240

William A. Timmons, PE
16-C North Brooks St
PO Box 927
Manning, SC
(803) 435-2647

Hass & Hildebrand, Inc.
33 Greenville St SW
P. O. Box 3276
Aiken, SC 29802
(803)649-1316

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101 Westpark Boulevard, Suite B
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Blythewood, SC 29016
(803) 714-9632

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720 Gracern Road
Columbia, SC 29201
(803)798-1200

Howard Leonard, P.E.
Peritus Civil
18 Pimlico Court
P. O. Box 16146
Greenville, SC 29607
(864) 288-5312

Pat Gambill
WK Dickson & Co, Inc.
1001 Pinnacle Pt Dr, Suite 110
Columbia, SC 29223
Office (803) 786-4261

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P. O. Box 1717
Greenville, SC 29602
(864)242-1717

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West Columbia, SC 29169
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Suite 200 B
Greenville, SC
864-467-0811

William C. Cooper, P.E.
Consulting Engineer
1713-B Woodcreek Farms Road
Elgin, SC 29045
(803)699-7728

Don Worley, P.E.
Matrix Engineering
912 South Pine Street
Spartanburg, SC 29302
(864) 583-6274

S&ME
301 Zima Park Drive
Spartanburg, SC 29301
(864) 574-2360

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**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D 3366 & Hazard Class C2 B. Name of Dam: Liles Pond Dam

C. Inspection Date (09 / 08 / 20 15) & Time: 14:45 D. Date of Last Inspection: (10 / 15 / 2012)

E. Location-County/City: Spartanburg / Spartanburg F. EQC Regional Office: Spartanburg

G. Inspector's Name: Mark Cann

H. Owner's Name: Charles Liles

I. Contact Person (if different from above): _____

J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 583 - 7089
Office (____) _____ - _____
Other (864) 621 - 1006

K. Dam Owner's or Contact Person's mailing address:

Address 1 391 Stewart Rd

Address 2 (optional) _____

City Spartanburg, State SC Zip Code 29306 - _____

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? No
- iii. Any obvious alteration or repairs made? No
- iv. Erosion noticed on crest? No
- v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass, brush.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Brush, trees, weeds.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No toe drains.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None noted.

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Not visible.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Brush, trees.
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? On file.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes -10/19/2012

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Dam is in overall Fair condition. Dam should be cleared of trees and brush.

Preliminary Dam Inspection Disclaimer:

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**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? N

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Dam is being regulated by FERC
(permit # 8785) because of the hydro
power generators.
The first one need 100 CFS to operate.
Runs primarily late Fall through the Spring.

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Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? NA - water to top of dam
- ii. Animal activity observed? _____
- iii. Any obvious alterations or repairs made? _____
- iv. Erosion observed on upstream slope? _____
- v. Settlement or cracks visible in slope? _____

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? None
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? None
- iv. Erosion observed on down stream slope? NA
- v. Settlement or cracks visible in slope? None
- vi. Toe drains flowing? NA
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Impossible to say

D. Primary Spillway

- i. Any visible deterioration of structure? Is the dam
- ii. Is there an obvious need to repair or replace trash rack? _____
- iii. Any noticeable problems with debris? _____
- iv. Is valve or gate present? Gates For hydropower unit tubes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NA
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No ES
- ii. Animal activity observed? _____
- iii. Any noticeable deterioration in the approach or discharge channel? _____
- iv. Any visible deterioration of structure's crest? _____



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3369 & Hazard Class 2
B. Name of Dam: Clifton #3 / Converse
C. Inspection Date (6/15/2012) & Time: 11:00
D. Date of Last Inspection: (11/6/2009)
E. Location-County/City: Sptbg / Converse
F. EQC Regional Office: 2 - Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Converse Energy - Franklin Lamb
I. Contact Person (if different from above): Johnny Sanford (on-site mgr)
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 706-6444, Office (), Other ()
K. Dam Owner's or Contact Person's mailing address: Address 1 P.O. Box 243, Address 2 (optional), City Converse, State SC, Zip Code 29329

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [checked] b) Fair [] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

Old Mill Stone dam

A. Dam Crest

- i. Vegetation (grass, trees weeds)? None
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? None
iv. Erosion noticed on crest? N/A
v. Any visible settlement, misalignment or cracks? None



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

November 14, 2012

Franklin Lamb
P.O. Box 243
Converse, SC 29329

Re: Inspection of **Dam D-3369, Clifton #3 (Converse) Dam**, Spartanburg County

Dear Mr. Lamb:

On November 5, 2012, SC DHEC conducted a routine inspection of your dam at Converse Mill. Mr. Johnny Sanford met me at the site and was most helpful. I am enclosing a copy of the inspection report for the dam.

Overall the old mill stone dam appears to be in **Good** condition. It was noted during the inspection the dam has an active power generation unit and is currently being inspected by the Federal Energy Regulatory Commission (FERC). A review of the Emergency Notification Plan prepared for FERC indicated they have assigned this dam permit number 8185.

Per **SC Code of Regulations Chapter 72-2 D. Exemptions**, as long as the dam is regulated by FERC, SC DHEC no longer has purview. For this reason, we will remove your dam from our inspection scheme until such time as it is no longer federally regulated. If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Region 2
Spartanburg EQC Office

Cc: John Poole, SC DHEC Bureau of Water – Dam Safety Program
Florence Hall, SC DHEC EQC Spartanburg



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

Om

December 19, 2012

Jim Seay
P.O. Box 10
420 River Street
Lockhart, SC 29364

Re: Inspection of **Dam D-3374, upper Pacolet Dam, Spartanburg County**

Dear Mr. Seay:

On December 17, 2012, SC DHEC conducted a routine inspection of your dam located on the Pacolet River in the town of Pacolet. Your assistance and that of others at the site was most helpful. I am enclosing a copy of the inspection report for the dam.

The stone dam, originally built to supply hydro-mechanical power to the upper Pacolet mill in the late 1800s, appears to be in **Good** condition. It was noted during the inspection the dam has a power generation unit under construction and is currently being inspected by the Federal Energy Regulatory Commission (FERC). A review of the "Order Issuing Subsequent Major License" submitted by FERC indicates they have assigned this dam and the lower Pacolet dam a combined permit number 2621.

Per **SC Code of Regulations Chapter 72-2 D. Exemptions**, as long as the dam is regulated by FERC, SC DHEC no longer has purview. For this reason, we will remove your dam from our inspection scheme until such time as it is no longer federally regulated. If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Region 2
Spartanburg EQC Office

Cc: John Poole, SC DHEC Bureau of Water – Dam Safety Program
Florence Hall, SC DHEC EQC Spartanburg

Hall
Garrett _____
Carter _____



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3314 & Hazard Class 2 B. Name of Dam: Upper Pacolet Mills
C. Inspection Date (12/27/2012) & Time: 10:30 D. Date of Last Inspection: (12/4/2009)
E. Location-County/City: Spthg / Pacolet F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Lockhart Power
I. Contact Person (if different from above): Jim Seay
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 545-2593 Other (864) 706-7888
K. Dam Owner's or Contact Person's mailing address: Address 1 PO Box Address 2 (optional) 420 River Street City Lockhart State SC Zip Code 29364

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [checked] b) Fair [] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Concrete over stone block
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? NA
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Stone block
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? NA
- v. Settlement or cracks visible in slope? No - slope underwater

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Stone block
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? NA
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? NA
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Impossible to say w/ water flowing over the dam

D. Primary Spillway

- i. Any visible deterioration of structure? top of dam is the spillway
No
- ii. Is there an obvious need to repair or replace trash rack? NA
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? No

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? NA
- ii. Describe any deflection or damage observed to the pipe: _____
- iii. Visible condition of outlet channel: _____

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? NA
- ii. Animal activity observed? _____
- iii. Any noticeable deterioration in the approach or discharge channel? _____
- iv. Any visible deterioration of structure's crest? _____

F. Auxiliary (Emergency) Spillway continued

- v. If applicable, any observed exposure of rebar reinforcement? NA
- vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

- i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

- i. Emergency Action Plan provided by owner? _____
- ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____
- iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

The dam is a mill dam from late 1800s. It was used for hydro-mechanical power at the mill. The dam is being retro fitted with 1.1 megawatt hydro generator unit. The Pacolet River will be funneled to the hydro unit on the mill side of the dam.

FERC is now regulating the dam. They are already inspecting aspects of the modification.

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.



South Carolina Department of Health and Environmental Control

November 20, 2013

SC Dept. of Natural Resources
311 Natural Resources Drive
Clemson, SC 29631

Re: Inspection of **Dam D-3379, Lake Edwin Johnson Dam**, Spartanburg County

Dear Sir:

On October 30, 2013, I conducted a routine inspection of the Lake Edwin Johnson Dam. I am enclosing a copy of my inspection report of the dam. The overall condition of the dam was **fair**.

As was noted in the 2010 inspection, the woody vegetation is very thick on both sides of the dam. Trees with diameters of less than 6 inches should be removed from both the front and back slopes.

We have a copy of your emergency alert notification plan on file. Should this dam experience difficulty and be endanger of failing, the impacted area downstream would need to be evacuated and downstream roads blocked. The agencies listed on the notification plan could provide assistance in doing this. If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Upstate Region - Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg – District Engineer

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Trees and brush
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Trees
- ii. Animal activity observed? Beaver trail
- iii. Any obvious alterations or repairs made? None
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No drains found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? No - valve is for a separate pipe to drain the lake

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No ES found
- ii. Animal activity observed? NA
- iii. Any noticeable deterioration in the approach or discharge channel? no
- iv. Any visible deterioration of structure's crest? no

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? LL

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

Could be a low hazard dam

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? on file from 1991

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Remove the small trees. Watch for beaver activity.

James West

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.



significant
Low Hazard Dam Classification Inspection Form for South Carolina
Regulated Dams
Dams and Reservoirs Safety Act Regulations 72-1 through 72-9

Note: This form is only for use on current low hazard (class three) dams regulated by the Department of Health and Environmental Control in the State of South Carolina. The primary user of this form is for the use of Department staff members actively involved in reclassification inspections. The current policy is to evaluate the hazard potential of low hazard dams at least once every five years.

Date of Inspection: Oct 30, 2013 SC Dam Inventory Number D 3379 County: Spartanburg
Dam Name: Lake Edwin Johnson

I. Dam Owner Information

Has ownership changed? Yes No (If yes, enter the new owners and their contact information below)

A. Owner/ Operator (Company or person): SC DNR
Contact Person (if owner is company): Don Miles
Phone: (803) 609-7039 Email: _____
Mailing Address: 311 Natural Resources Drive
City: Clemson State: SC Zip: 29631

II. Site Information

A. Site Location (street address, nearest intersection, etc.): Johnson Lake Road
Latitude: _____° _____' _____" N Longitude: - _____° _____' _____" W Tax map # (list all): 3-31-00-00100
34.87972361 - 81.8359088

B. Is there any evidence of new development below the dam? Yes No

C. Do you think the hazard classification should be ^{downgraded} ~~upgraded~~? Yes No

D. If yes for item II.C, what is your opinion of what the new classification should be? Class 1 (High Hazard)
 Class 2 (Significant Hazard)
 Class 3 (Low Hazard)

III. Signature

Please print your name, sign, and date on the lines below once the inspection and form have been completed. If assistance with determining the hazard classification was obtained from Bureau of Water staff members, they will also need to complete this portion of the form.

James West Printed Name of Regional Inspector James West Signature Nov. 21, 2013 Date of Signature

Printed Name of BOW Engineer Signature Date of Signature



South Carolina Department of Health and Environmental Control

December 5, 2013

Croft State Park
Attn: John Moon
450 Croft S.P. Road
Spartanburg, SC 29302

Re: Inspection of **Dam D-3383, Croft Lake**, Spartanburg County

Dear John:

As you recall, on November 18, 2013, you and I conducted a routine inspection of the Croft Lake dam. I am enclosing a copy of my inspection report of the dam. The following deficiencies were noted:

1. There were some eroded areas on the emergency spillway.
2. There were small trees on the rear face of the dam. However, they were young trees and it was obvious the dam had been cut numerous times in the past.

Repairs should be made to the erosion areas of the spillway and the trees cut.

Should the dam experience difficulty, the appropriate emergency officials should be notified. The agencies listed in the emergency plan can provide assistance in determining what actions to take for protection of the public and downstream property.

If you have any questions, please call me at 864-596-3800.

Sincerely

A handwritten signature in cursive script that reads 'James West'.

James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, Spartanburg EQC – District Engineer



Significant
Low Hazard Dam Classification Inspection Form for South Carolina
Regulated Dams
Dams and Reservoirs Safety Act Regulations 72-1 through 72-9

Note: This form is only for use on current low hazard (class three) dams regulated by the Department of Health and Environmental Control in the State of South Carolina. The primary user of this form is for the use of Department staff members actively involved in reclassification inspections. The current policy is to evaluate the hazard potential of low hazard dams at least once every five years.

Date of Inspection: Nov. 18, 2013 SC Dam Inventory Number D 3383 County: Spartanburg
Dam Name: Lake Tom Moore Craig

I. Dam Owner Information

Has ownership changed? Yes No (If yes, enter the new owners and their contact information below)

A. Owner/ Operator (Company or person): SC DPRT - Croft S. P.

Contact Person (if owner is company): John Moon, Superintendant

Phone: (864) 585-1283 Email: croft@scprt.com

Mailing Address: 450 Croft State Park Rd

City: Spartanburg State: SC Zip: 29302

II. Site Information

A. Site Location (street address, nearest intersection, etc.): Croft State Park Road

Latitude: 34.86580486 " N Longitude: -81.833277 " W Tax map # (list all): 3-31-00-001.00

B. Is there any evidence of new development below the dam? Yes No

C. Do you think the hazard classification should be ^{down} upgraded? Yes No

D. If yes for item II.C, what is your opinion of what the new classification should be? Class 1 (High Hazard)

Class 2 (Significant Hazard)

Class 3 (Low Hazard)

III. Signature

Please print your name, sign, and date on the lines below once the inspection and form have been completed. If assistance with determining the hazard classification was obtained from Bureau of Water staff members, they will also need to complete this portion of the form.

James West
Printed Name of Regional Inspector

James West
Signature

Nov. 21, 2013
Date of Signature

Printed Name of BOW Engineer

Signature

Date of Signature



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

- A. Dam Number: D 2383 & Hazard Class 2 B. Name of Dam: Croft Lake
- C. Inspection Date (11/18/2013) & Time: 13:45 D. Date of Last Inspection: (11/10/2010)
- E. Location-County/City: Spky / Spartanburg F. EQC Regional Office: Spartanburg
- G. Inspector's Name: James West
- H. Owner's Name: SC Parks Recreation and Tourism
- I. Contact Person (if different from above): John Moon, Park Superintendent
- J. Dam Owner's or Contact Person's Phone Numbers: Home () - - - - -
Office () - - - - -
Other () - - - - -
- K. Dam Owner's or Contact Person's mailing address:
Address 1 450 Croft State Park Rd
Address 2 (optional) _____
City Spartanburg State SC Zip Code 29302

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? None
- iii. Any obvious alteration or repairs made? No
- iv. Erosion noticed on crest? No
- v. Any visible settlement, misalignment or cracks? NO

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass and weeds
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, weeds, small trees
- ii. Animal activity observed? Deer path and a beaver slide
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? None Found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None Found

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? Yes
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: No
- iii. Visible condition of outlet channel: good

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? Yes - some holes
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? Perhaps - there is standing water and it is always present but there

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? NO

could be a spring
Not aware of a justification for it even being a 2.

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes (11/18/13)

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? yes

Section IV (Conclusions)

General comments and recommendations:

Keep trees from washing into the riser pipe.
Fill the holes on the Emergency Spillway.
Keep trees from growing on the dam.
Watch for beaver activity.

James West

Preliminary Dam Inspection Disclaimer:

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**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

October 5, 2015

Karen Allen
Cherokee County Soil and Water Conservation District
1252 Overbrook Dr, Ste 1B
Gaffney SC 29341

Re: Reinspection of Dam D-3405,
Thicketty Creek WCD #20 Dam, Cherokee County

Dear Ms Allen:

On August 31, 2015 a routine reinspection of the Thicketty Creek WCD #20 Dam was performed. I am enclosing a copy of the inspection report. The following deficiencies were noted:

- The dam needs to be mowed.

This dam is given an overall Satisfactory assessment. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: David Graves – Dams and Reservoir Safety, BW



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D 3405 & Hazard Class C2

B. Name of Dam: Thicketty Creek WCD #20

C. Inspection Date (08 / 31 / 20 15) & Time: 11:30

D. Date of Last Inspection: (11 / 21 / 2012)

E. Location-County/City: Cherokee / Gaffney

F. EQC Regional Office: Spartanburg

G. Inspector's Name: Mark Cann

H. Owner's Name: Cherokee County Soil and Water Conservation District

I. Contact Person (if different from above): Karen Allen

J. Dam Owner's or Contact Person's Phone Numbers: Home () -

Office (864) 489 - 7150

Other () -

K. Dam Owner's or Contact Person's mailing address:

Address 1 1252 Overbrook Dr, Ste 1B

Address 2 (optional) _____

City Gaffney, State SC Zip Code 29341 - _____

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? No
- iii. Any obvious alteration or repairs made? No
- iv. Erosion noticed on crest? No
- v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? Yes. One needs to be cleared of growth.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? On File

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes - 11/29/2012

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Dam condition OK.

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Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

October 5, 2015

Karen Allen
Cherokee County Soil and Water Conservation District
1252 Overbrook Dr, Ste 1B
Gaffney SC 29341

Re: Reinspection of Dam D-3406,
Thicketty Creek WCD #19 Dam, Cherokee County

Dear Ms Allen:

On August 31, 2015 a routine reinspection of the Thicketty Creek WCD #19 Dam was performed. I am enclosing a copy of the inspection report. The following deficiencies were noted:

- The dam needs to be mowed before brush and shrubs become a maintenance problem.

This dam is given an overall Fair assessment. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: David Graves – Dams and Reservoir Safety, BW



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3406 & Hazard Class C2 B. Name of Dam: Thicketty Creek WCD #19
C. Inspection Date (08/31/2015) & Time: 12:30 D. Date of Last Inspection: (11/21/2012)
E. Location-County/City: Cherokee / Gaffney F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name: Cherokee County Soil and Water Conservation District
I. Contact Person (if different from above): Karen Allen
J. Dam Owner's or Contact Person's Phone Numbers: Home () - Office (864) 489 - 7150 Other () -
K. Dam Owner's or Contact Person's mailing address:
Address 1 1252 Overbrook Dr, Ste 1B
Address 2 (optional)
City Gaffney State SC Zip Code 29341 -

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass - some small trees at the waterline.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, brush. Needs to be mowed.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? Yes
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? On file.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes - 11/29/12

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Dam is in overall Fair condition. Dam needs to be mowed before brush and shrubs become a problem.

Preliminary Dam Inspection Disclaimer:

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Catherine E. Heigel, Director
Promoting and protecting the health of the public and the environment

October 5, 2015

Karen Allen
Cherokee County Soil and Water Conservation District
1252 Overbrook Dr, Ste 1B
Gaffney SC 29341

Re: Reinspection of Dam D-3407,
Thicketty Creek WCD #18 Dam, Cherokee County

Dear Ms Allen:

On August 31, 2015 a routine reinspection of the Thicketty Creek WCD #18 Dam was performed. I am enclosing a copy of the inspection report. No notable deficiencies were noted.

This dam is given an overall Satisfactory assessment. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: David Graves – Dams and Reservoir Safety, BW



Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3407 & Hazard Class C2 B. Name of Dam: Thicketty Creek WCD #18
C. Inspection Date (08 / 31 / 20 15) & Time: 13:45 D. Date of Last Inspection: (11 / 21 / 2012)
E. Location-County/City: Cherokee / Gaffney F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name: Cherokee County Soil and Water Conservation District
I. Contact Person (if different from above): Karen Allen
J. Dam Owner's or Contact Person's Phone Numbers: Home (____) ____ - ____
Office (864) 489 - 7150
Other (____) ____ - ____
K. Dam Owner's or Contact Person's mailing address:
Address 1 1252 Overbrook Dr, Ste 1B
Address 2 (optional) _____
City Gaffney, State SC Zip Code 19341 - ____

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? Slight flow.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Ok

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? On file

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes - 11/29/2012

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Dam is in overall satisfactory condition. Continue current maintenance plan.

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.



South Carolina Department of Health and Environmental Control

December 16, 2013

Karen Allen
Cherokee Soil and Water Conservation District
1252 Overbrook Drive, STE 1B
Gaffney, SC 29341

Re: Inspection of Thicketty Creek WCD #25 Dam **D-3408**, Cherokee County

Dear Mrs. Allen:

As you will recall on December 10, 2013, SC DHEC conducted a routine inspection of the Thicketty Creek WCD #25 dam in Cherokee County. Your assistance during the inspection was much appreciated. I am enclosing a copy of the inspection report. Overall the condition of the dam is **Satisfactory**.

Logs or large limbs were seen around the outlet riser. A screen may be needed at the riser to keep these floating logs from becoming a blockage concern. Some erosion was observed in the basin below the outlet pipe. This erosion is at the end of the emergency spillway. Please stabilize this area to prevent further loss of land and sediment impacts to the creek. A hole was seen along the edge of the emergency spillway near the dam crest. It is on the backslope of the spillway. Please fill the hole and monitor it for any further settling.

An emergency notification plan was provided during the inspection. Should this dam experience difficulty the agencies listed on the emergency notification plan could provide assistance. If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Region 2
Spartanburg EQC Office

Cc: John Poole, SC DHEC Bureau of Water – Dam Safety Program
Florence Hall, SC DHEC EQC Spartanburg



Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 2408 & Hazard Class 2 B. Name of Dam: Thicketty Creek ^{WCD #25}
C. Inspection Date (12/10/2013) & Time: 1130 D. Date of Last Inspection: (12/29/2010)
E. Location-County/City Cherokee GAFFNEY F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Cherokee County Soil & Water
I. Contact Person (if different from above): Karen Allen Conservation
J. Dam Owner's or Contact Person's Phone Numbers: Home () - - - - -
Office (864) 489-7150
Other () - - - - -
K. Dam Owner's or Contact Person's mailing address:
Address 1 1252 Overbrook Drive, STE 1B
Address 2 (optional) _____
City Gaffney State SC Zip Code 29341

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? None observed
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? A screen may be needed to keep logs out of the riser
- iii. Any noticeable problems with debris? A log floating against the riser
- iv. Is valve or gate present? yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Some erosion on the embankment shared with the Emergency Spillway

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? None - except a small hole where the ES goes below the dam crest
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes
12/10/13

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Stabilize embankment below outlet pipe
at end of emergency spillway. Fill hole
on ES backside near dam crest.

A screen may be needed to prevent
blockage of the riser.

James West

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.



South Carolina Department of Health and Environmental Control

December 31, 2013

Mrs. Lori Gaffney
147 Wilkie Road
Gaffney, SC 29340

Re: Inspection of **Dam D-3414**, Old Childers Pond, Cherokee County

Mr. Ray:

On December 17, 2013, SC DHEC conducted a routine inspection of your dam located near Gaffney. The dam is in **poor** condition. I am enclosing a copy of the inspection report of the dam.

The primary outlet pipe was discharging at less than 50% capacity. A greater amount of water was exiting the emergency spillway. Beaver activity was evident on the dam, in the emergency spillway and near the outlet pipe. As you well know, beavers can clog the primary outlet pipe and the emergency spillway. Additionally a hole was found on the upslope of the dam near the pipe. This hole should be filled and monitored. The downstream slope is undulating and has a large cavity. Monitor this slope for seepage and further settling / weathering.

Although trees have been cut in the past, numerous trees were observed on both slopes and the dam crest. Trees can become a serious problem for dams; including providing a pathway for water seepage through the dike. We recommend removal of all trees less than 6".

Corrections should be performed within ninety (90) days from the receipt of this letter. These corrections are required by the *Dams and Reservoirs Safety Act Regulations R. 72-4*. Failure to perform these corrections is a direct violation of the Dams and Reservoirs Safety Act, Article 3, Section 49-11-260 and subsequent penalties. Contact Florence Hall or myself when the corrections have been made. If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, Spartanburg EQC – District Engineer



Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D3414 & Hazard Class 2 B. Name of Dam: Old Childers Pond
C. Inspection Date (12/17/2013) & Time: 11:00 D. Date of Last Inspection: (12/29/2010)
E. Location-County/City: Cherokee / Gaffney F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Lori Gaffney
I. Contact Person (if different from above): Same
J. Dam Owner's or Contact Person's Phone Numbers: Home () - - - - -
Office (864) 490-1411
Other () - - - - -
K. Dam Owner's or Contact Person's mailing address:
Address 1 147 Willie Rd
Address 2 (optional) _____
City Gaffney State SC Zip Code 29340

Section II (Dam Condition)

General Condition Assessment (Select one of the following):
a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest
i. Vegetation (grass, trees weeds)? Grass and trees
ii. Animal activity observed? Beavers (slide + chewing)
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Weeds and trees
- ii. Animal activity observed? Beaver (slide, chewing + hole)
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? yes - hole likely associated with the beavers near primary pipe + a tree

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass, weeds and trees
- ii. Animal activity observed? Beaver (slide + chewing)
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? Yes - several old channels and a 5' x 6' depression
- vi. Toe drains flowing? None found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None on slope or toe, water is entering the old creek channel 60' from pond drain

D. Primary Spillway

- i. Any visible deterioration of structure? None
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No but beaver activity is continuous
- iv. Is valve or gate present? yes - for steel pipe (pond drain) not the primary

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Channel is on a rock bed

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Beaver dam
- ii. Animal activity observed? Yes see (i)
- iii. Any noticeable deterioration in the approach or discharge channel? None
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? 1995

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Primary drain pipe is functioning at about 25% capacity. Most of the water is still going over the emergency spillway. No erosion observed in either channel this time. Both channels have been cut to rock. The downstream slope has a lot of undulation (old erosion channels and a large depression). This should be monitored for seepage. No seepage was detected. Beavers have been removed but more needs to be done. Watch closely for the building of a lodge in the dam. A hole was observed in the upstream dam face near the pipe. Continue to cut the trees.

James West

Preliminary Dam Inspection Disclaimer:

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Catherine E. Heigel, Director

Promoting and protecting the health of the public and the environment

August 19, 2015

Mr. Hans Theiler
PO Box 5369
Spartanburg SC 29304

Re: Reinspection of Dam D-3424,
Theiler Lake Dam, Cherokee County

Dear Mr. Theiler:

On June 25, 2015 a routine reinspection of the Theiler Lake Dam was performed. I am enclosing a copy of the inspection report. The following deficiencies were noted:

-The dam needs to be cleared of brush and trees smaller than 4 inches in diameter. Once the dam is cleared, an assessment should be made by a Professional Engineer to determine the status of the dam. The assessment should include a tree removal plan for trees larger than 4 inches in diameter.

-The enclosed Emergency Action Plan form should be completed and submitted to this office for our file.

-The riser pipe is in need of repair; particularly if the reservoir level is to be raised back to normal pool. The pond currently is about 8 ft below the lip of the riser.

This dam is given an overall Fair assessment. Please complete the requested items and submit to this office within 90 days of date of this letter. Please feel free to call (864-596-3800) if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

Cc: John Poole, P.E. – Dams and Reservoir Safety, BW



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3424 & Hazard Class C2 B. Name of Dam: Theiler Lake Dam
C. Inspection Date (06/25/2015) & Time: 12:00 D. Date of Last Inspection: (12/04/2009)
E. Location-County/City: Cherokee / Pacolet F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name: Hans Theiler
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home () Office () Other ()
K. Dam Owner's or Contact Person's mailing address:
Address 1 PO Box 5369
Address 2 (optional)
City Spartanburg State SC Zip Code 29304

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass and weeds
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Brush and small trees; rip-rap at water line.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Brush and small trees.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No toe drains.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? Yes, spillway riser is rusted and misaligned.
- ii. Is there an obvious need to repair or replace trash rack? Yes - trash rack is rusted out.
- iii. Any noticeable problems with debris? No - water level is well below outlet lip.
- iv. Is valve or gate present? No valve is visible.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: No

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Need to clear brush from the emergency spillway approach on upstream side.
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? _____

vi. If applicable, any visible leakage below concrete spillway? _____

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Needs updating.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Pond is at partial pool, water level is approx. 8 ft below riser pipe outlet, but water is flowing thru the outlet structure from some leak in the lower portion of the riser. Riser needs to be repaired before water level is raised in the reservoir.

Preliminary Dam Inspection Disclaimer:

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**S. C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
DAMS AND RESERVOIRS SAFETY PROGRAM
SURVEILLANCE PLAN AND EMERGENCY NOTIFICATION PLAN**

..... DAM, D .

----- County

AS OWNER MANAGER OPERATOR (Please Check One)

Of the above reference dam, the person(s) named below are responsible for safe maintenance and operation of the above dam and reservoir and are responsible for implementing the following Surveillance Plan and the following Emergency Notification Plan:

SURVEILLANCE PLAN

Visual inspections will be performed frequently to detect any major changes, which may endanger the dam such as settlement, erosion, cracking and earth movement. Evidence of seepage on the downstream slope, at the toe and downstream from the toe, will be monitored to detect any increase in flow or movement of soil particles. The Dams and Reservoirs Safety District Engineer, Greg Harrington at 803-285-7461 will be notified if any of the above symptoms are found.

EMERGENCY NOTIFICATION PLAN

In the event a major flood or hurricane is forecast, the dam will be monitored, and if the dam appears to be in danger from overtopping or if failure appears imminent because of other problems, the following state and local officials will be notified and the dam will be kept under constant surveillance until the proper authorities arrive to protect the general public.

1.	South Carolina Highway Patrol	-----
2.	Local Highway Maintenance Engineer	-----
3.	Local Police Department, Emergency Preparedness personnel, and other county or town officials	-----
4.	S.C. Department of Health and Environmental Control, Columbia, SC	-----

Additionally, the dam owner or his representative will notify the following downstream property owners. (This space is provided for the dam owner or his representative to complete, as this is his responsibility under the S. C. Dams and Reservoirs Safety Act Regulations.)

Person(s) responsible for implementing Surveillance Plan and Emergency Notification Plan:

NAME:	DATE:	TELEPHONE:

ENGINEERS EXPERIENCED IN
DAM DESIGN WORK

Stephen L. Whitesides, PE
CDM
5400 Glenwood Ave, Suite 300
Raleigh, NC 27612
(919)325-3556

Schnabel Engineering
104 Corporate Blvd Suite 410
W. Columbia, SC 29169
(803) 796-6240

William A. Timmons, PE
16-C North Brooks St
PO Box 927
Manning, SC
(803) 435-2647

Hass & Hildebrand, Inc.
33 Greenville St SW
P. O. Box 3276
Aiken, SC 29802
(803)649-1316

H. Grady Adkins, Jr., P.E.
Southeast Regional Office
Paul C. Rizzo Associates, Inc.
101 Westpark Boulevard, Suite B
Columbia, SC 29210
(803) 750-9773 x 12
FAX (803) 750-9116

Dan Creed, P.E.
Heritage Engineering, Inc.
10719 Wilson Blvd.
Blythewood, SC 29016
(803) 714-9632

Law Engineering & Envir. Svcs
720 Gracern Road
Columbia, SC 29201
(803)798-1200

Howard Leonard, P.E.
Peritus Civil
18 Pimlico Court
P. O. Box 16146
Greenville, SC 29607
(864) 288-5312

Pat Gambill
WK Dickson & Co, Inc.
1001 Pinnacle Pt Dr, Suite 110
Columbia, SC 29223
Office (803) 786-4261

Piedmont Olsen Hensley
420 Park Avenue
P. O. Box 1717
Greenville, SC 29602
(864)242-1717

Chao and Assoc., Inc.
3936 Sunset Boulevard
West Columbia, SC 29169
(803) 791-8420

Gene Dobbins (Thomas Eugene Dobbins)
200 E Camperdown Way
Suite 200 B
Greenville, SC
864-467-0811

William C. Cooper, P.E.
Consulting Engineer
1713-B Woodcreek Farms Road
Elgin, SC 29045
(803)699-7728

Don Worley, P.E.
Matrix Engineering
912 South Pine Street
Spartanburg, SC 29302
(864) 583-6274

S&ME
301 Zima Park Drive
Spartanburg, SC 29301
(864) 574-2360

Note: This list is furnished as a courtesy only. Firms listed here have successfully designed new or repair projects for dams. The inclusion of any firm on this list is not an endorsement of that firm. Likewise, failure to include any firm on this list does not mean the firm is not qualified to do design work on dams.



South Carolina Department of Health and Environmental Control

November 14, 2013

Oak Creek Plantation Lake Owners Association
P.O. Box 34
Spartanburg, SC 29304

Re: Inspection of **Dam D-3977**, Spartanburg County

Dear Sirs:


On October 24, 2013, SC DHEC conducted a routine inspection of your dam located off Country Club Road. The dam received an overall rating of **fair**. I am enclosing a copy of the inspection report for the dam.

Please note more water was flowing over the emergency spillway than through the outlet pipe. Less than 10 % of the pipe's capacity was being utilized even though the entire primary outlet structure was submerged. This would imply the pipe is clogged. Were it not for this issue the dam would be in satisfactory condition.

We do not have an up to date copy of your emergency alert notification plan on file. Please complete the attached form and return it to us. Should this dam experience difficulty and be endanger of failing, the agencies listed on the notification plan could provide assistance.

If you have any questions, please call me at 864-596-3800.

Sincerely,


James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg – District Engineer



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 3977 & Hazard Class 2 B. Name of Dam: Oak Creek Plantation
C. Inspection Date (10/24/2013) & Time: 1400 D. Date of Last Inspection: (11/15/2010)
E. Location-County/City: Spky 1 Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Oak Creek Plantation Lakeowners Assoc.
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home () Office () Other ()
K. Dam Owner's or Contact Person's mailing address:
Address 1 P.O. Box 34
Address 2 (optional)
City Spartanburg State SC Zip Code 29304

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? None Found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Rip rapped / broken concrete protecting the banks

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? No
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

- v. If applicable, any observed exposure of rebar reinforcement? None on concrete
but broken concrete in channel below has exposed rebar
- vi. If applicable, any visible leakage below concrete spillway? None

H. Downstream/Hazard Class Issues

- i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

- i. Emergency Action Plan provided by owner? Yes but it is out of date
1995
- ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? 1995
- iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

The outlet pipe is flowing at less than 10% capacity yet the emergency over flow is flowing. Obviously there is a blockage in the pipe. Open up the pipe. The lake bottom was dredged in February 2012.

James West

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.

**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

February 5, 2015

David M. Julian
340 Mill Gin Road
Campobello, SC 29322

Re: J.E. Nodine Dam D-4031, Spartanburg County

Dear Mr. Julian:

On January 30, 2015, SC DHEC personnel Florence Hall and myself conducted a re-evaluation of your dam's elevation and overall pond size. Your presence during the site visit was most helpful. This re-evaluation was conducted based upon your request letter dated January 9, 2015.

According to our records, the J.E. Nodine Dam has been on the SC inventory of dams since at least 1990. In your letter you stated you did not believe the dam to be 25 feet above the creek bed. Mrs. Hall and I shot the elevation change from the creek bed to the top of the dam and found it to be 22'6". In addition we observed the pond to be less than 25 acre-feet of water storage.

The **Dams and Reservoirs Safety Act** regulations, **SC Code of Regulations Chapter 72**, at **72-2 Dam Classifications and Exemptions, D. Exemptions** states: "The following types of dams are exempt from the Dams and Reservoirs Safety Act and the regulations pertaining thereto: ...any dam which is or shall be less than twenty-five feet in height from the natural bed of the stream ...to the maximum water storage elevation and has or shall have an impounding capacity at maximum water storage elevation of less than fifty acre-feet."

Therefore SC DHEC concurs with your assessment and removes this dam from our inspection list. A copy of the "Certificate of Exemption from the S.C. Dams and Reservoirs Safety Act" is attached. If you have any questions or we can be of further assistance, please call me at (864) 596-3800.

Sincerely,

James West
SC DHEC Upstate Region - Spartanburg EQC Office

Cc: John Poole, SC DHEC Bureau of Water – Dam Safety Engineer
Florence Hall, SC DHEC EQC Spartanburg



Certificate of Exemption from the S.C. Dams and Reservoirs Safety Act

Pursuant to the South Carolina Dams and Reservoir Safety Act (S.C. Code of Laws, Section 49-11-110), it has been determined that the construction of the proposed impoundment or water control structure or the restoration of the existing impoundment or water control structure located at:

(1) J.E. Nodine Dam D-4031 (also attach a topographic or comparable location map pinpointing impoundment)

340 Mill Gin Rd Campobello 29322

and owned by: (2) David M. Julian

is exempt from the Dams and Reservoir Safety Act.

Only 22'6" high. Shot on Jan. 30, 2015 by James West and Florence Hall.

It has further been determined that this impoundment or water control structure is for the purpose(s) of:

(3) recreation

(irrigation, water supply, sediment control, erosion control, aquaculture, wildlife management, or other - specify, if other)

Signed: (4) James West

Name and Title: (5) James West, EHM - Dam Inspector, Spartanburg EQC, Regional Inspector, Environmental Quality Control (EQC); District Conservationist, NRCS - Soil Cons. Serv. or Dam Safety Engineer, SCDHEC]

Regional EQC or NRCS Watershed Office: (6) Florence Hall

Date: (7) 2-5-15

*This Certificate of Exemption does not relieve the owner from compliance with other federal, state, or local laws, permitting procedures or requirements.

White - Applicant Copy

Yellow - Regional EQC or NRCS Copy

Pink - SC DHEC Copy

Certificate of Exemption from the S.C. Dams and Reservoirs Safety Act – DHEC 2601
R.72-1 through R.72-9

INSTRUCTIONS

Purpose: To provide proof of exemption to owners of a dam, which in the judgment of the Department, because of its size and location could pose no significant threat of danger to downstream life or property.

Who will complete the form: Dam Safety Engineers with the Bureau of Water, Regional EQC office engineers and inspectors, and NRCS District Conversationalist engaged in the activities of promulgating S.C. Code of Laws, Section 49-11-110.

Line 1: Enter the street address, if available, and county tax map number of the parcel of land on which the dam or water control structure is located. In addition to the information listed, attach a topographic or comparable location map that pinpoints the location of the structure.

Line 2: Enter the legal name of the dam's owner. If the owner is a company or other organization, list the contact persons name in addition to the organization.

Line 3: List the purpose of the proposed or existing water control structure. Several uses have been listed on the face of this form.

Line 4: The signature of the DHEC or NRCS employee verifying the exempt status of the dam needs to be placed on this line.

Line 5: Print the name and title of the DHEC or NRCS employee verifying the exempt status of the dam or impoundment structure on this line.

Line 6: Enter the name of the SC DHEC Regional EQC or NRCS Watershed office that covers the where the dam is located.

Line 7: Enter the date on which the certificate of exemption is signed.

Office Mechanisms and filing: The form must be sent to the Dam's owner(s) and filed with the Bureau of Water, Dams and Reservoir Safety Program, before the end of the following month after the signature date on the form. The certificate report will be filed in the Bureau of Water's file room and will be retained for at least three years.

DHEC 2601 (01/2012)

Handwritten signature
2-2-12



W. Marshall Taylor Jr., Acting Director

Promoting and protecting the health of the public and the environment

May 26, 2015

James Ness
324 Webber Rd
Cowpens SC 29330

Re: Reinspection of Dam D-4325, Sunny Slopes Farms Dam, Cherokee County

Dear Mr. Ness:

On April 27, 2015, I conducted a routine reinspection of the Sunny Slopes Farms Dam. I am enclosing a copy of my inspection report on the dam. The following deficiencies were noted:

- The dam needs to be cleared of brush and trees smaller than 4 inches in diameter.
- An emergency plan should be developed for the dam. I am enclosing a copy of DHEC Form 2606. Please complete and return this form to this office.

This dam is given an overall Fair assessment. Please complete the requested items and submit to this office within 90 days of date of this letter.

Please feel free to contact me at 864-596-3800 if I can be of any assistance.

Sincerely,

Mark Cann, Sr., P.E.
Spartanburg EQC Office

cc: John Poole, P.E. – Dams and Reservoir Safety, BW



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 4325 & Hazard Class C2 B. Name of Dam: Sunny Slopes Farm Dam
C. Inspection Date (04 / 27 / 20 15) & Time: 11:45 D. Date of Last Inspection: (11 / 02 / 2012)
E. Location-County/City: Cherokee / Cowpens F. EQC Regional Office: Spartanburg
G. Inspector's Name: Mark Cann
H. Owner's Name: James Ness
I. Contact Person (if different from above):
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 490 - 1293
Office () -
Other (864) 490 - 2209
K. Dam Owner's or Contact Person's mailing address:
Address 1 324 Webber Rd
Address 2 (optional)
City Cowpens, State SC Zip Code 29330 -

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [] b) Fair [x] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grasse, OK
ii. Animal activity observed? No
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Overgrown with trees and brush.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Overgrown with trees and brush.
- ii. Animal activity observed? No
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? No toe drains.
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Not visible.

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: Ok
- iii. Visible condition of outlet channel: Ok

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Vegetation and brush growing in the spillway.
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? N/A

vi. If applicable, any visible leakage below concrete spillway? N/A

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? _____

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Need updated EAP.

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

-Dam needs to be cleared of brush and trees smaller than 4 inches in diameter.

-Need updated EAP.

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.

**S. C. DEPARTMENT OF HEALTH AND ENVIRONMENTAL CONTROL
DAMS AND RESERVOIRS SAFETY PROGRAM
SURVEILLANCE PLAN AND EMERGENCY NOTIFICATION PLAN**

----- DAM, D .

---- County

AS OWNER MANAGER OPERATOR (Please Check One)

Of the above reference dam, the person(s) named below are responsible for safe maintenance and operation of the above dam and reservoir and are responsible for implementing the following Surveillance Plan and the following Emergency Notification Plan:

SURVEILLANCE PLAN

Visual inspections will be performed frequently to detect any major changes, which may endanger the dam such as settlement, erosion, cracking and earth movement. Evidence of seepage on the downstream slope, at the toe and downstream from the toe, will be monitored to detect any increase in flow or movement of soil particles. The Dams and Reservoirs Safety District Engineer, Greg Harrington at 803-285-7461 will be notified if any of the above symptoms are found.

EMERGENCY NOTIFICATION PLAN

In the event a major flood or hurricane is forecast, the dam will be monitored, and if the dam appears to be in danger from overtopping or if failure appears imminent because of other problems, the following state and local officials will be notified and the dam will be kept under constant surveillance until the proper authorities arrive to protect the general public.

1.	South Carolina Highway Patrol	-----
2.	Local Highway Maintenance Engineer	-----
3.	Local Police Department, Emergency Preparedness personnel, and other county or town officials	-----
4.	S.C. Department of Health and Environmental Control, Columbia, SC	-----

Additionally, the dam owner or his representative will notify the following downstream property owners. (This space is provided for the dam owner or his representative to complete, as this is his responsibility under the S. C. Dams and Reservoirs Safety Act Regulations.)

Person(s) responsible for implementing Surveillance Plan and Emergency Notification Plan:

NAME:	DATE:	TELEPHONE:



South Carolina Department of Health and Environmental Control

December 10, 2013

Angela Mathis
P.O. Box 36
Cowpens, SC 29330

Re: Inspection of **Dam D-4343**, Spartanburg County

Dear Mrs. Mathis:

On December 02, 2013, SC DHEC conducted a routine inspection of your dam located at 4813 Cannons Campground Road. Your dam received a **Fair** rating. I am enclosing a copy of the inspection report of the dam.

As noted in previous reports, trees with diameters of less than 6 inches should be removed. Any trees on the structure that have a diameter greater than 6 inches should not be removed at this time. Please note that this continued tree growth on the dam compromises the integrity of the structure.

Corrections should be performed within ninety (90) days from the receipt of this letter. These corrections are required by the *Dams and Reservoirs Safety Act Regulations R. 72-4*. Failure to perform these corrections is a direct violation of the Dams and Reservoirs Safety Act, Article 3, Section 49-11-260 and subsequent penalties.

We do not have an updated copy of your emergency alert notification plan on file. Please complete the notification plan sheets enclosed and return one to us. Should this dam experience difficulty and be endanger of failing, the agencies listed on the notification plan could provide assistance in doing this.

If you have any questions, please call me at 864-596-3800.

Sincerely

James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, Spartanburg EQC – District Engineer

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Gross, weeds, trees
- ii. Animal activity observed? Beavers chewing on the trees
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Gross, weeds, trees
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? None Found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No but much of toe is accessible due to vegetation

D. Primary Spillway

- i. Any visible deterioration of structure? No structure Found
- ii. Is there an obvious need to repair or replace trash rack? None Found
- iii. Any noticeable problems with debris? NA
- iv. Is valve or gate present? No

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: Good until it reaches the pipe

F. Auxillary (Emergency) Spillway

- i. Noticeable obstructions to flow? Yes - small trees
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? None on approach but some erosion in the channel
- iv. Any visible deterioration of structure's crest? No



Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D4343 & Hazard Class 2 B. Name of Dam: Chris Grant Dam
C. Inspection Date (12/10/2013) & Time: 14:30 D. Date of Last Inspection: (11/15/2010)
E. Location-County/City: Cowpens / Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: _____
I. Contact Person (if different from above): Angela Mathis
J. Dam Owner's or Contact Person's Phone Numbers: Home (864) 462-9553
Office (____) _____
Other (____) _____
K. Dam Owner's or Contact Person's mailing address:
Address 1 P.O. Box 36
Address 2 (optional) 4813 Cannon's Campground Rd
City Cowpens State SC Zip Code 29330

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass, weed, pine straw
ii. Animal activity observed? Beaver (see up slope)
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes 1995

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

Cut trees off both dam slopes. Do not allow beavers to clog the primary outlet pipe. Stabilize eroded area in the Emergency Spillway.

James West

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.

**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



South Carolina Department of Health and Environmental Control

November 13, 2013

Glenn Forest Lake Owners Association
2375 E. Main Street
Spartanburg, SC 29302

Re: Inspection of **Dam D-4367**, Spartanburg County

Dear Sirs:

On October 24, 2013, SC DHEC conducted a routine inspection of your dam located off Old Iron Works Road and Round Ridge Court in the Glenn Forest Subdivision. The dam received an overall rating of **fair**. I am enclosing a copy of the inspection report of the dam.

Numerous trees were removed after the 2010 inspection but many trees are still growing on the backslope of the dam. Trees with diameters of less than 6 inches should be removed. Please note this continued tree growth on the dam compromises the integrity of the structure.

Additionally, no water was flowing through the outfall pipe. However water was flowing over the emergency spillway. It may be the pipe is only intended to drain the lake. Please verify its status. The water flowing over the emergency spillway is not reaching the creek by way of the concrete channel. Instead it is seeping through the joints between the concrete slabs and is flowing beneath them to the creek below. An accumulation of sediment was not observed at the base of the spillway so the erosion effect could be determined. Nevertheless, the cracks need to be filled so as to prevent future erosion.

Corrections should be performed within ninety (90) days from the receipt of this letter. These corrections are required by the *Dams and Reservoirs Safety Act Regulations R. 72-4*. Failure to perform these corrections is a direct violation of the *Dams and Reservoirs Safety Act, Article 3, Section 49-11-260*.

We do not have a copy of your emergency alert notification plan on file. Please complete the attached form and return it to us. Should this dam experience difficulty and be endangered of failing, the agencies listed on the notification plan could provide assistance.

If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, BEHS Spartanburg – District Engineer



**Preliminary Inspection Report for South Carolina
Regulated Dams and Impoundment Structures
Regulations
R.72-1 through R.72-9**

Section I (Owner's Information)

A. Dam Number: D 4367 & Hazard Class 2 B. Name of Dam: Glenn Forest
C. Inspection Date (10/24/2013) & Time: 1600 D. Date of Last Inspection: (11/15/2010)
E. Location-County/City: Spthg | Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Glenn Forest Lake Owners Association
I. Contact Person (if different from above): Nate Tom (2012)
J. Dam Owner's or Contact Person's Phone Numbers: Home () - - - - -
Office (864) 583-1451
Other () - - - - -
K. Dam Owner's or Contact Person's mailing address: Registered Agent per S.C.F.S.
Address 1 2375 E. Main St
Address 2 (optional) _____
City Spartanburg State SC Zip Code 29302

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass and a few trees
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Weedy Grass and some Cedar trees
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? None Found
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: None

D. Primary Spillway

- i. Any visible deterioration of structure? * Outlet pipe is not Flowing
Could not see a riser
- ii. Is there an obvious need to repair or replace trash rack? No TR seen
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? None outside
and no Flow through the pipe
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: OK

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None except water disappears
- ii. Animal activity observed? None
- iii. Any noticeable deterioration in the approach or discharge channel? Cracks b/w
concrete slabs is receiving the water
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? None

vi. If applicable, any visible leakage below concrete spillway? Yes *

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? None on file

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? _____

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Remove trees less than 6" in diameter from the dam. Outlet pipe has no flow through it yet the spillway is being used. Why is there no flow in the pipe?

Water is seeping beneath the SS concrete slabs at the joints. This must be stopped before sediment begins to move out the bottom of the slope / spillway with the water. None observed yet.

James West

Preliminary Dam Inspection Disclaimer:

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**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

Purpose: To satisfy the inspection requirements for high and significant hazard dams regulated by South Carolina Department of Health and Environmental Control. See R.72-1 through R. 72-9.

Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
- B) Name of Dam; Enter the common name of dam found within EFIS.
- C) Inspection Month & Time; Enter the day, month, year, and time in which the inspections was performed.
- D) Date of Last Inspection; Enter the day, month, and year, in which the last inspection was performed.
- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.



Catherine B. Templeton, Director

Promoting and protecting the health of the public and the environment

January 6, 2015

Mr. Ralph Settle
Johnson Development
100 Dunbar Street, STE 400
Spartanburg, SC 29306

Re: Inspection of **Dam D-4384**, Horseshoe Lake, Spartanburg County

Dear Mr. Settle:

On December 29, 2014, SC DHEC conducted a routine safety inspection of the Horseshoe Lake dam located between Carolina Country Club and Zimmerman Lake Road. Your participation in the inspection was much appreciated. I am enclosing a copy of the inspection report.

Overall the dam appears to be in **satisfactory** condition. However, the trees on the emergency spillway and its riprap overflow should be removed. Flowing water was observed in the toe drains. This appeared to be a normal flow following recent rains but monitor these pipes for a significant volume increase or color changes. These pipes can reveal water seepage through the dam that is from the lake. If the water begins to carry sediment contact SC DHEC as well as an engineer.

Should this dam experience difficulty and be in danger of failing, the agencies listed on the emergency notification plan could provide assistance. If you have any questions, please call me at 864-596-3800.

Sincerely,

James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, SC DHEC Bureau of Water – Dam Safety Program
Florence Hall, SC DHEC EQC Spartanburg



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 4384 & Hazard Class 2 B. Name of Dam: Horseshoe Lake
C. Inspection Date (12/29/2014) & Time: 1:30 D. Date of Last Inspection: (12/21/2011)
E. Location-County/City: Sptbg | Spartanburg F. EQC Regional Office: Sptbg
G. Inspector's Name: James West
H. Owner's Name: Johnson Development
I. Contact Person (if different from above): Ralph Jettie
J. Dam Owner's or Contact Person's Phone Numbers: Office Home (864) 594-5745 Cell Office (864) 529-2171 Other ()
K. Dam Owner's or Contact Person's mailing address: Address 1 100 Dunbar St., STE 400 Address 2 (optional) City Spartanburg State SC Zip Code 29306

Section II (Dam Condition)

General Condition Assessment (Select one of the following): a) Satisfactory [checked] b) Fair [] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? Beaver path iii. Any obvious alteration or repairs made? No iv. Erosion noticed on crest? No v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? Beaver trail
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? Beaver trail
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? Yes
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No
- ii. Describe any deflection or damage observed to the pipe: No
- iii. Visible condition of outlet channel: Natural rock creek bed

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? Yes - some trees at the end
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? 12/2014

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? _____

Section IV (Conclusions)

General comments and recommendations:

Remove trees on the emergency over flow and at its rip rap discharge.

Dam and structures have been well maintained in the past.

James West

Preliminary Dam Inspection Disclaimer:

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South Carolina Department of Health and Environmental Control

December 5, 2013

Joey Griffin
330 Mary Hanna Rd
Woodruff, SC 29388

Re: Inspection of **Pat Hartness Dam D-4496**, Spartanburg County

Dear Mr. Griffin:

As you recall, on November 15, 2013, a routine inspection your dam was conducted. I am enclosing a copy of the inspection report of the dam. No deficiencies of the dam were noted. There are however, some trees at the discharge pipe and in the stream below that should be removed. Additionally a hole in the vicinity of the spring needs to be filled.

We have a copy of your emergency alert notification plan on file. Should this dam experience difficulty and be endanger of failing the agencies listed on the notification plan could provide assistance.

If you have any questions, please call me at 864-596-3800.

Sincerely

James West
SC DHEC Region 2 Spartanburg EQC Office

Cc: John Poole, Bureau of Water – Dam Safety Program
Florence Hall, Spartanburg EQC – District Engineer



Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9

Section I (Owner's Information)

A. Dam Number: D 4496 & Hazard Class 2 B. Name of Dam: Pat Hartness
C. Inspection Date (11/15/2013) & Time: 15100 D. Date of Last Inspection: (12/06/2010)
E. Location-County/City: Woodruff Spartanburg F. EQC Regional Office: Spartanburg
G. Inspector's Name: James West
H. Owner's Name: Pat Hartness
I. Contact Person (if different from above): Joey Griffin, mgr
J. Dam Owner's or Contact Person's Phone Numbers: Home () Office () Other (864)270-2791
K. Dam Owner's or Contact Person's mailing address:
Address 1 330 Mary Hanna Rd
Address 2 (optional)
City Woodruff State SC Zip Code 29388

Section II (Dam Condition)

General Condition Assessment (Select one of the following):

- a) Satisfactory [checked] b) Fair [] c) Poor [] d) Unsatisfactory [] e) Not Rated []

Section III (Dam Inspection Checklist)

A. Dam Crest

- i. Vegetation (grass, trees weeds)? Grass
ii. Animal activity observed? None
iii. Any obvious alteration or repairs made? No
iv. Erosion noticed on crest? No
v. Any visible settlement, misalignment or cracks? No

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on upstream slope? No
- v. Settlement or cracks visible in slope? No

C. Down Stream Slope

- i. Vegetation (grass, trees weeds)? Grass
- ii. Animal activity observed? None
- iii. Any obvious alterations or repairs made? No
- iv. Erosion observed on down stream slope? No
- v. Settlement or cracks visible in slope? No
- vi. Toe drains flowing? Yes (both) - one into woods, the other at the spring pipe & discharge pipe
- vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: No

D. Primary Spillway

- i. Any visible deterioration of structure? No
- ii. Is there an obvious need to repair or replace trash rack? No
- iii. Any noticeable problems with debris? No
- iv. Is valve or gate present? Yes

E. Outlet Pipe

- i. Any water visibly flowing or leaking outside of the discharge pipe? No - just from the toe drains and spring pipe
- ii. Describe any deflection or damage observed to the pipe: None
- iii. Visible condition of outlet channel: OK but trees in the channel should be cut

F. Auxiliary (Emergency) Spillway

- i. Noticeable obstructions to flow? None
- ii. Animal activity observed? No
- iii. Any noticeable deterioration in the approach or discharge channel? No
- iv. Any visible deterioration of structure's crest? No

F. Auxiliary (Emergency) Spillway continued

v. If applicable, any observed exposure of rebar reinforcement? NA

vi. If applicable, any visible leakage below concrete spillway? NA

H. Downstream/Hazard Class Issues

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification? No

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? Yes - in the file

ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? 1998

iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes

Section IV (Conclusions)

General comments and recommendations:

The tree at the discharge pipe needs to be removed before it becomes a problem. Likewise trees in the channel should be removed. Hole in the area of the spring should be filled.

Dam and related structures look good.

James West

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**Preliminary Inspection Report for South Carolina Regulated Dams and
Impoundment Structures Regulations – DHEC 2604
R.72-1 through R.72-9**

INSTRUCTIONS

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Who will complete the form: Regional engineers and inspectors engaged in the dams and reservoir safety program performing dam inspections.

Section I (Owner's Information):

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- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
- F) EQC Regional Office; Enter the DHEC EQC Regional office that covers the area in which the dam is located.
- G) Inspector's Name; Enter the name of the person performing the inspection.
- H) Owner's Name; Enter the name of the person owning the dam. If there is multiple owners list them and their contact information in the "General comments and recommendations are in section IV.
- I) Contact Person; Enter the name of the person that represents the dam owner during the inspection. This person should be authorized to remedy any deficiencies found by the inspector.
- J) Dam Owner's or Contact Person's Phone Numbers; Enter the home, office, and other available numbers for the Dam owner or Contact person.
- K) Dam Owner's or Contact Person's mailing address; Enter the dam owner's or contact person's mailing address including city state and zip code.

Section II (Dam Condition):

Once the inspection is completed indicate the general condition of the dam. The assessment can be one of the following four categories:

- a) **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.