

# 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: <b>D</b> 1267 & Hazard Class Significant B. Name	of Dam: JR DARRAGH DAM 1
C. Inspection Date (05/14/20 15) & Time: 09:07 A.M. D. Date o	f Last Inspection: (11 / 13 / 2014 _)
E. Location-County/City: GREENWOOD / GREENWOOD F. EQC R	Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT, MICHAEL HAYES	
H. Owner's Name: ROBERT JOHNSON, JAMES DARRAGH	
I. Contact Person (if different from above): JAMES DARRAGH	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other ( <u>864_)</u> <u>993 1124</u> _
Address 1 122 SALAK ROAD	
Address 1 122 SALAK ROAD  Address 2 (optional)	
Address 2 (optional)	ip Code _2 <u>9646</u>
Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional), State SC	ip Code _29646
Address 2 (optional)  City GREENWOOD , State SC Z  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	ip Code _29646
Address 2 (optional)  City GREENWOOD , State SC Z  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactory	ip Code _29646
Address 2 (optional)  City GREENWOOD, State SCZ  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactory b) Fair c) Poor d) Unsatisfactory b) Tool Checklist A. Dam Crest	ip Code _29646
Address 2 (optional)  City GREENWOOD , State SC Z  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatistics  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Grass, sand, clay	ip Code _29646
Address 2 (optional)  City GREENWOOD	ip Code _29646

### Section III (Dam Inspection Checklist) continued

ii. Animal ac	ctivity observed? No
iii. Any obvid	ous alterations or repairs made? Brush and small tress have been removed since previous inspection
iv. Erosion o	bserved on upstream slope? Yes, along water line
v. Settlemen	t or cracks visible in slope? №
D 01	and Olana
i. Vegetation	n (grass, trees weeds)?  Trees, brush, poison oak, poison ivy, limb and stump debris, briars
ii. Animal ac	ctivity observed? Downstream slope of the dam was not inspectable due to site conditions
iii. Any obvi	Ous alterations or repairs made? Downstream slope of the dam was not inspectable due to site conditions
iv. Erosion o	bserved on down stream slope? Downstream slope of the dam was not inspectable due to site conditions
v. Settlemen	t or cracks visible in slope? Downstream slope of the dam was not inspectable due to site conditions
vi. Toe drain	s flowing? N/A
	page observed? If so, describe location, Downstream slope of the dam was not inspectable due to site conditional and a substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site conditional and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable due to site and the substitution of the dam was not inspectable
	d any turbidity or color within the flow: From the crest, there appears to be seepage on the right side of the
	bottom of the slope and also along the left groin. It appears that both of these areas have flowing seepage
D. Primary Sp	pillway
). Primary Sp	
<b>D. Primary Sp</b> i. Any visible	pillway
i. Any visible	e deterioration of structure? No
i. Any visible ii. Is there ar iii. Any notice	deterioration of structure?  n obvious need to repair or replace trash rack?  eable problems with debris?  No
i. Any visible ii. Is there ar iii. Any notice	deterioration of structure?  No  n obvious need to repair or replace trash rack?  No
i. Any visible ii. Is there ar iii. Any notice iv. Is valve o	deterioration of structure?  n obvious need to repair or replace trash rack?  eable problems with debris?  n gate present?  No  No
i. Any visible ii. Is there ar iii. Any notice iv. Is valve o	deterioration of structure?  n obvious need to repair or replace trash rack?  eable problems with debris?  n gate present?  No
i. Any visible ii. Is there ar iii. Any notice iv. Is valve o  E. Outlet Pip i. Any water	deterioration of structure?  deterioration of structure?  n obvious need to repair or replace trash rack?  eable problems with debris?  no  no  no  no  no  no  no  no  no  n
i. Any visible ii. Is there ar iii. Any notice iv. Is valve o  E. Outlet Pip i. Any water	deterioration of structure?  no obvious need to repair or replace trash rack?  eable problems with debris?  no gate present?  No  no obvious need to repair or replace trash rack?  No  outlet pipe was not accessible due to the
i. Any visible ii. Is there ar iii. Any notice iv. Is valve o  E. Outlet Pip i. Any water condition of the dov condition of the dov	deterioration of structure?  No  nobvious need to repair or replace trash rack?  No  eable problems with debris?  No  regate present?  No  e  visibly flowing or leaking outside of the discharge pipe?  Outlet pipe was not accessible due to the win stream slope  any deflection or damage observed to the pipe:  Outlet pipe was not accessible due to the  Outlet pipe was not accessible due to the  Outlet pipe was not accessible due to the
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i. Any visible ii. Is there ar iii. Any notice iv. Is valve o  E. Outlet Pip i. Any water condition of the dov iii. Describe a condition of the dov iii. Visible co  F. Auxiliary (E i. Noticeable	e deterioration of structure?  No  nobvious need to repair or replace trash rack?  No  eable problems with debris?  No  regate present?  No  e  visibly flowing or leaking outside of the discharge pipe?  outlet pipe was not accessible due to the win stream slope  any deflection or damage observed to the pipe:  outlet pipe was not accessible due to the win stream slope  and of outlet channel:  outlet pipe was not accessible due to the condition of the down stream slope  Indition of outlet channel:  outlet pipe was not accessible due to the condition of the down stream slope  Emergency) Spillway
i. Any visible ii. Is there ar iii. Any notice iv. Is valve o  E. Outlet Pip i. Any water condition of the dov iii. Describe a condition of the dov iii. Visible co  F. Auxiliary (I i. Noticeable ii. Animal act	deterioration of structure?  n obvious need to repair or replace trash rack?  n obvious need to repair or replace trash rack?  n obvious need to repair or replace trash rack?  no  eable problems with debris?  No  regate present?  No  evisibly flowing or leaking outside of the discharge pipe?  Outlet pipe was not accessible due to the win stream slope  any deflection or damage observed to the pipe:  Outlet pipe was not accessible due to the win stream slope  indition of outlet channel:  Outlet pipe was not accessible due to the condition of the down stream slope  Emergency) Spillway  obstructions to flow?  Inspector is currently unsure of whether or not there is an emergency spillway  ivity observed?
i. Any visible ii. Is there ar iii. Any notice iv. Is valve o  E. Outlet Pip i. Any water condition of the dov iii. Describe a condition of the dov iii. Visible co  F. Auxiliary (I i. Noticeable ii. Animal act	deterioration of structure?  deterioration of structure?  n obvious need to repair or replace trash rack?  n obvious need to repair or replace trash rack?  n obvious need to repair or replace trash rack?  No  reable problems with debris?  No  regate present?  No  e  visibly flowing or leaking outside of the discharge pipe?  outlet pipe was not accessible due to the win stream slope  any deflection or damage observed to the pipe:  outlet pipe was not accessible due to the condition of the down stream slope  indition of outlet channel:  outlet pipe was not accessible due to the condition of the down stream slope  Emergency) Spillway  obstructions to flow?  Inspector is currently unsure of whether or not there is an emergency spillway

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:  Mr. Robert Johnson attended the majority of the inspection. Mr. Johnson stated that the down stream slope was covered
in poison ivy and poison oak. After discussion with Central Office personnel, it was decided that the down stream slope
was not in a condition that was inspectable.
Although the owners have cleared off the majority of the excess vegetation along the front slope of the dam, additional
efforts must be spent removing all excess vegetation from the upstream and downstream slopes of the dam (everything less
than 4 inches in diameter). This includes poison ivy, poison oak, brush, briars, small trees, etc. Your goal is to maintain a
grass cover across all aspects of the structure. Also, all tree debris (limbs, stumps) should be removed from the
down stream slope. The seepage noted must be monitored closely. If you notice a change in the seepage (color,
velocity, etc) you need to call the Department immediately. Please monitor the erosion along the front slope of
the structure.
*** All directions are given looking downstream.

#### **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.

- 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 though 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.



# 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: <b>D</b> 1270 & Hazard Class Significant B. N	ame of Dam: Stephen L Davis Dam
C. Inspection Date ( <u>01/07/20 15</u> ) & Time: <u>09:30</u> D. D	ate of Last Inspection: (01/19/2012_)
E. Location-County/City: Greenwood / Hodges F. Ed	QC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Stephen and Lori Davis	
I. Contact Person (if different from above): Stephen Davis	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office (864) 229 - 5211
K. Dam Owner's or Contact Person's mailing address:	Other ()
Address 1 PO Box 428	
Address 1 PO Box 428  Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional)  City Greenwood , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) U	
Address 2 (optional)  City Greenwood , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) University Condition Checklist	Zip Code _29648
Address 2 (optional)  City Greenwood , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) U	Zip Code _29648
Address 2 (optional)  City Greenwood , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) U  Section III (Dam Inspection Checklist)  A. Dam Crest	Zip Code _29648
Address 2 (optional)  City Greenwood , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) U  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)?	Zip Code _29648
Address 2 (optional)  City Greenwood , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) U  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Grass  ii. Animal activity observed? Numerous ant hills	Zip Code _29648

### Section III (Dam Inspection Checklist) continued

B. Upstream Slope i. Vegetation (grass, trees weeds)?  Grass, thick areas of weeds - difficult to see ground
ii. Animal activity observed? Multiple animal paths
II. 7 IIIII addivity obodivod:
iii. Any obvious alterations or repairs made? No
·
iv. Erosion observed on upstream slope? Inspector could not see the ground well enough to comment on this.
v. Settlement or cracks visible in slope? Inspector could not see the ground well enough to comment on this.
C. Down Stream Slope
i. Vegetation (grass, trees weeds)? Grass, weeds over five feet tall, bare areas forming, treeline is beginning to creep onto the
down stream slope
ii. Animal activity observed? Animal paths were evident
iii. Any obvious alterations or repairs made? №
III. Any obvious alterations or repairs made? №
iv. Erosion observed on down stream slope? Inspector could not see the ground well enough to comment on this.
v. Settlement or cracks visible in slope? Surface appears to be uneven. This was also difficult to inspect due to the
vi. Toe drains flowing? N/A
vi. Toe drains flowing? N/A
vii. Any seepage observed? If so, describe location, Soft, wet area that water exited the ground when walked on was found to
flow rate, and any turbidity or color within the flow: the right of the primary spillway outlet on the bottom
half of the down stream slope. Water was not seen flowing.
D. Primary Spillway i. Any visible deterioration of structure?
ii. Is there an obvious need to repair or replace trash rack?
iii. Any noticeable problems with debris?  Yes - debris needs to be removed from the pipes and the trash rack
iv. Is valve or gate present? <sub>N/A</sub>
E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe?  No
ii Desaile and definition or demand shows a destanting
ii. Describe any deflection or damage observed to the pipe:  None
22 AP-21 and PP-2 of a flat decreal
iii. Visible condition of outlet channel: Water appears to be moving slowly once it is beyond the toe of the dam. Ensure there is not
a blockage of the channel downstream of Gary Road.
F. Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  There is a tree growing along the waters edge on the left emergency spillway. There is also a large
mound of pine straw in the waters path near where it enters the channel east of the dam.
ii. Animal activity observed? No
iii. Any noticeable deterioration in the approach or discharge channel?
iv. Any visible deterioration of structure's crest? No

vi. If applicable, a	ny visible leakage below concrete spillway? N/A
	lazard Class Issues changes immediately downstream of the dam that affects the hazard classification? No
. Emergency Act i. Emergency Act	ion Plan (EAP) tion Plan provided by owner? No.
ii. Does EAP con	tains emergency alert notification plan? If so, when was it last updated?
iii. Does EAP cor	ntain specific actions to take if the dam has failed or is near failure?
General comme	nclusions) Ints and recommendations:
General comme	nclusions) ents and recommendations: eeds to be removed from the structure on a regular basis. In the past, the dam had a grass cover.
General comme Excess vegetation no This was not true on	nclusions)  Ints and recommendations:  eeds to be removed from the structure on a regular basis. In the past, the dam had a grass cover.  the day of the current inspection. Your goal is to maintain a grass cover across the structure.
General comme Excess vegetation no This was not true on Closely monitor the s	nclusions) ents and recommendations: eeds to be removed from the structure on a regular basis. In the past, the dam had a grass cover.
General comme Excess vegetation no This was not true on Closely monitor the s changes in the amou	Ints and recommendations:  eeds to be removed from the structure on a regular basis. In the past, the dam had a grass cover.  the day of the current inspection. Your goal is to maintain a grass cover across the structure.  seepage that has been found on the backslope of the dam and call the Department if you notice any
General comme Excess vegetation no This was not true on Closely monitor the s changes in the amou	Ints and recommendations:  eeds to be removed from the structure on a regular basis. In the past, the dam had a grass cover.  the day of the current inspection. Your goal is to maintain a grass cover across the structure.  seepage that has been found on the backslope of the dam and call the Department if you notice any unt of seepage or the color of the seepage.
General comme Excess vegetation no This was not true on Closely monitor the s changes in the amou	Inclusions) Ints and recommendations: Expected to be removed from the structure on a regular basis. In the past, the dam had a grass cover.  It the day of the current inspection. Your goal is to maintain a grass cover across the structure.  It is deepage that has been found on the backslope of the dam and call the Department if you notice any unit of seepage or the color of the seepage.  It is a clear path away from the toe of the dam.
General comme Excess vegetation no This was not true on Closely monitor the s changes in the amou	Inclusions) Ints and recommendations: Expected to be removed from the structure on a regular basis. In the past, the dam had a grass cover.  It the day of the current inspection. Your goal is to maintain a grass cover across the structure.  It is deepage that has been found on the backslope of the dam and call the Department if you notice any unit of seepage or the color of the seepage.  It is a clear path away from the toe of the dam.
Excess vegetation needs This was not true on Closely monitor the such anges in the amount Ensure the water has	Inclusions) Ints and recommendations: Expected to be removed from the structure on a regular basis. In the past, the dam had a grass cover.  It the day of the current inspection. Your goal is to maintain a grass cover across the structure.  It is deepage that has been found on the backslope of the dam and call the Department if you notice any unit of seepage or the color of the seepage.  It is a clear path away from the toe of the dam.

#### **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**

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- 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.

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- d) UNSATISFACTORY- A dam safety deficiency is recognized that requires immediate or emergency remedial action for problem resolution.
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#### 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.



# 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: <b>D</b> 1271 & Hazard Class Significant B. Name of	of Dam: TOWN AND COUNTRY DAM 1
C. Inspection Date (01/15/20 15) & Time: 09:47 AM D. Date of	f Last Inspection: (01_/_23/_2012_)
E. Location-County/City: GREENWOOD / GREENWOOD F. EQC R	egional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT	
H. Owner's Name: TOWN AND COUNTRY DAM 1	
I. Contact Person (if different from above): WILSON BRUCE	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office (864) 388 - 4001
K. Dam Owner's or Contact Person's mailing address:	Other (864_) _3771016 _
Address 1 114 CLUB DRIVE	<del></del>
Address 1 114 CLUB DRIVE  Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional), State <u>SC</u> Zi	
Address 2 (optional)	p Code _29646
Address 2 (optional)  City GREENWOOD , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	p Code _29646
Address 2 (optional)  City GREENWOOD , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor  d) Unsatisfactory	p Code _29646
Address 2 (optional)  City GREENWOOD , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactory Dam Inspection Checklist)  A. Dam Crest	p Code _29646
Address 2 (optional)  City GREENWOOD , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatist  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Asphalt Road with grass shoulders	p Code _29646
Address 2 (optional)  City GREENWOOD, State SCZi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair	p Code _29646

### Section III (Dam Inspection Checklist) continued

i. V	ostream Slope 'egetation (grass, trees weeds)? Grass
ii. A	Animal activity observed? Possible animal burrow into dam on front slope just right of the dock, ground is soft in this vicinity
iii. /	Any obvious alterations or repairs made? No
	Erosion observed on upstream slope? along the waters edge, on the upstream slope under the dock (please monitor and repairs needed)
	ettlement or cracks visible in slope?
	Other and Other
	own Stream Slope (egetation (grass, trees weeds)? Grass, fence near crest
ii. A	Animal activity observed? No
	Any obvious alterations or repairs made?  A fence was erected near the border between the downstream slope and the co
iv. E	Frosion observed on down stream slope? No
v. S	ettlement or cracks visible in slope? A depression was identified on the right side of the back slope near an electrical junction
vi. T	Foe drains flowing? N/A
flow	Any seepage observed? If so, describe location, rate, and any turbidity or color within the flow:  any changes to the flow or amount of water in this area  It was soggy along the toe of the dam - there have also been recent rate events. Please monitor this area closely and call the Department if you any changes to the flow or amount of water in this area
ii. Is	Could not inspect because it is situated underneath the dock  there an obvious need to repair or replace trash rack?  Could not inspect because it is situated underneath the dock  Could not inspect because it is situated underneath the dock
iii. A	Any noticeable problems with debris? Could not inspect because it is situated underneath the dock
iv. Is	s valve or gate present? Yes
<u> </u>	utlet Dine
	utlet Pipe ny water visibly flowing or leaking outside of the discharge pipe?  Not that I could tell (difficult to get close to due
	osion in the area as well as the excess vegetation)
II. D	escribe any deflection or damage observed to the pipe:
iii. V	/isible condition of outlet channel: Channel appeared mostly clear - water was moving away from the discharge point
	Chainer appeared mostly clear - water was moving away norm the discharge point
	exiliary (Emergency) Spillway oticeable obstructions to flow? Fence
ii. Ar	nimal activity observed? No
iii. A	ny noticeable deterioration in the approach or discharge channel? No
iv. A	ny visible deterioration of structure's crest? No

vi. If applicable, any	visible leakage below concrete spillway?
H. Downstream/Haz i. Any noticeable ch	ard Class Issues anges immediately downstream of the dam that affects the hazard classification?  No
. Emergency Action i. Emergency Action	n <b>Plan (EAP)</b> n Plan provided by owner? No
ii. Does EAP contai	ns emergency alert notification plan? If so, when was it last updated?
iii. Does EAP conta	in specific actions to take if the dam has failed or is near failure?
General comment	clusions) s and recommendations:
General comments Owners appear to conti	clusions) s and recommendations: nue to perform normal dam maintenance activities. Please remember your goal is to maintain a grass
General comments Owners appear to conti	clusions) s and recommendations: nue to perform normal dam maintenance activities. Please remember your goal is to maintain a grass
Owners appear to conti cover across all aspects Animal burrow was disc	clusions) s and recommendations: nue to perform normal dam maintenance activities. Please remember your goal is to maintain a grass of the structure.w
General comments Owners appear to conti cover across all aspects Animal burrow was disc Please monitor the wet	clusions) s and recommendations: nue to perform normal dam maintenance activities. Please remember your goal is to maintain a grass of the structure.w covered to the right of the dock.
General comments Owners appear to conti cover across all aspects Animal burrow was disc Please monitor the wet	clusions) s and recommendations: nue to perform normal dam maintenance activities. Please remember your goal is to maintain a grass of the structure.w covered to the right of the dock. areas along the toe of the dam.
General comments Owners appear to conti cover across all aspects Animal burrow was disc Please monitor the wet	clusions) s and recommendations: nue to perform normal dam maintenance activities. Please remember your goal is to maintain a grass of the structure.w covered to the right of the dock. areas along the toe of the dam.
General comments Owners appear to conti cover across all aspects Animal burrow was disc Please monitor the wet	clusions) s and recommendations: nue to perform normal dam maintenance activities. Please remember your goal is to maintain a grass of the structure.w covered to the right of the dock. areas along the toe of the dam.

#### **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.

- 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 though 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.



## W. Marshall Taylor Jr., Acting Director Promoting and protecting the health of the public and the environment

January 23, 2015

Gatewood POA Attn: Wilson Bruce 114 Club Drive Greenwood, SC 29646

RE:

Routine inspection of Dam D-1272

Town & Country Dam 2 Greenwood County

Dear Mr. Bruce:

As you may already be aware, the South Carolina Department of Health and Environmental Control (DHEC) is responsible for assuring all hazardous dams are properly maintained in order to prevent failure. On January 15, 2015, the Department conducted its routine inspection of the "Class 2 Significant Hazard" dam listed above.

I would like to thank you for the continued upkeep of the structure. Also, thank you for fixing deficiencies noted in the previous inspection. Please refer to the attached inspection report for details related to the inspection.

I left you a blank copy of an Emergency Action Plan (EAP). Please fill out one form for the structure. Please make a copy of the Plan and mail/fax/email it to my attention. Please keep a copy for your records. The plan lists a set of contacts to make in the event of a problem with the structure. It should be reviewed before significant rains and storms (e.g. hurricanes) as well as on a regular basis to ensure the information in it is correct.

I also left you a blank copy of the "Notification of Ownership Change" form. This form must be filed with the Department in the event of transfer of ownership of the dam.

Also, as a reminder, if you experience an overtopping event or other problems with the structure, please contact the Department and update/make personnel aware of the situation.

If you have any questions or if I can be of any assistance prior to the re-inspection, please give me a call at 864-223-0333 or email me at hacketsa@dhec.sc.gov.

Thank you,

Stenhanie Hadlett

Stephanie Hackett, P.E.

Regional Engineer

South Carolina Department of Health and Environmental Control

Upstate EQC Greenwood

1736 S Main Street, Greenwood, SC 29646

(864) 227-5915 Office

(864) 223-6935 Fax

Enclosures

CC: John Poole, P.E., SCDHEC Bureau of Water (without enclosures)



# 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: <b>D</b> <u>1272</u> & Hazard Class Significant	B. Name of Dam: Town & Country Dam 2
C. Inspection Date (01/15/20 15) & Time: 09:30 AM	D. Date of Last Inspection: (01 / 23 / 2015
E. Location-County/City: Greenwood / Greenwood	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Gatewood POA	
I. Contact Person (if different from above): Wilson Bruce	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ( )
	Office (864) 388 - 4001
K. Dam Owner's or Contact Person's mailing address:	Other (864_)3771016
Address 1 114 Club Drive	
Addices	
Address 2 (optional)	
Address 2 (optional)	s_SC Zip Code _29646
Address 2 (optional), State	
Address 2 (optional), State  Section II (Dam Condition)	<u>SC</u> Zip Code <u>29646</u>
Address 2 (optional)	SC Zip Code _29646
Address 2 (optional)  City Greenwood , State  Section II (Dam Condition)  General Condition Assessment (Select one of the folion)	SC Zip Code _29646
Address 2 (optional)  City Greenwood , State  Section II (Dam Condition)  General Condition Assessment (Select one of the follow)  a) Satisfactory  b) Fair  c) Poor	owing):  d) Unsatisfactory e) Not Rated
Address 2 (optional)  City Greenwood , State  Section II (Dam Condition)  General Condition Assessment (Select one of the folion)  a) Satisfactory b) Fair c) Poor   Section III (Dam Inspection Checklist)  A. Dam Crest	owing):  d) Unsatisfactory   e) Not Rated
Address 2 (optional)  City Greenwood , State  Section II (Dam Condition)  General Condition Assessment (Select one of the folion  a) Satisfactory b) Fair c) Poor  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Asphalt road with grass show	owing):  d) Unsatisfactory   e) Not Rated
Address 2 (optional)  City Greenwood , State  Section II (Dam Condition)  General Condition Assessment (Select one of the folion  a) Satisfactory b) Fair c) Poor  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Asphalt road with grass shows ii. Animal activity observed?	owing):  d) Unsatisfactory   e) Not Rated

### Section III (Dam Inspection Checklist) continued **B.** Upstream Slope i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? Yes - adjacent to the water on the right side of the dam v. Settlement or cracks visible in slope? There is a depression that has formed on the right side of the dam (near the dock) near the middle of the structure C. Down Stream Slope i. Vegetation (grass, trees weeds)? Grass, couple trees on left side of the dam ii. Animal activity observed? iii. Any obvious alterations or repairs made? Bushes that lined the road have been removed, the bank of the lower pond (where the discharge pipe enters the downstream pond) has been armored with rip-rap, trees and debris in the vicinity of primary outlet have been removed There was erosion in the vicinity of the discharge pipe - this is most likely due to iv. Erosion observed on down stream slope? the removal of the vegetation in this area (you may want to consider filling this area in with compacted soil) v. Settlement or cracks visible in slope? Settlement has occured near crest on left side of the dam vi. Toe drains flowing? N/A 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? Could not see the structure due to the dock that is situated immediately above the primary ii. Is there an obvious need to repair or replace trash rack? Could not see the structure due to the dock that is situated immediately above the primary spillway iii. Any noticeable problems with debris? Could not see the structure due to the dock that is situated immediately above the primary spillway iv. Is valve or gate present? Could not see the structure due to the dock that is situated immediately above the primary spillway E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? ii. Describe any deflection or damage observed to the pipe: None iii. Visible condition of outlet channel: Clear (discharge enters a downstream pond) F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? No ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? Narrow path on the downstream slope in the left emergency spillway - possibly from where the left emergency spillway has been in use in the past - monitor this area and fix any additional erosion that may occur iv. Any visible deterioration of structure's crest? DHEC 2604 (Rev 11/2011)

v. If applicable, any obs	erved exposure of rebar reinforcement?
vi. If applicable, any visi	ble leakage below concrete spillway?
H. Downstream/Hazard i. Any noticeable change	Class Issues es immediately downstream of the dam that affects the hazard classification?
. Emergency Action Pla i. Emergency Action Pla	
ii. Does EAP contains e	mergency alert notification plan? If so, when was it last updated?
iii. Does EAP contain sr	pecific actions to take if the dam has failed or is near failure?
General comments an	d recommendations:
General comments an Inspector spoke with Mr. Wil	d recommendations: son Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problem
Inspector spoke with Mr. Wil arose during the rain events	d recommendations: son Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problem
General comments an Inspector spoke with Mr. Wil arose during the rain events Thank you for the attention t	d recommendations: son Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problem that had to be fixed.
General comments an Inspector spoke with Mr. Wil arose during the rain events Thank you for the attention t	d recommendations: son Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problem that had to be fixed. o the structure. The dam appeared in good overall shape on the day of the inspection.
General comments an Inspector spoke with Mr. Wil arose during the rain events Thank you for the attention t	d recommendations: son Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problem that had to be fixed. o the structure. The dam appeared in good overall shape on the day of the inspection.
General comments an Inspector spoke with Mr. Wil arose during the rain events Thank you for the attention t	d recommendations: son Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problem that had to be fixed. o the structure. The dam appeared in good overall shape on the day of the inspection.
General comments an Inspector spoke with Mr. Wil arose during the rain events Thank you for the attention t	d recommendations: son Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problem that had to be fixed. o the structure. The dam appeared in good overall shape on the day of the inspection.

#### **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.

- 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 though 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.



# 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: <b>D</b> <u>1272</u> & Hazard Class <u>Significant</u> B. Name	of Dam: Town & Country Dam 2
C. Inspection Date (01/15/20 15) & Time: 09:30 AM D. Date 0	of Last Inspection: (01/23/_2015)
E. Location-County/City: Greenwood / Greenwood F. EQC I	Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Gatewood POA	
I. Contact Person (if different from above): Wilson Bruce	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ( <u>864</u> ) <u>388</u> - <u>4001</u>
K. Dam Owner's or Contact Person's mailing address:	Other (864_) 377 1016_
K. Dam Owner's or Contact Person's mailing address:	
A delrace 4 114 Club Drive	
Address 1 114 Club Drive	
Address 2 (optional)	
Address 2 (optional)  City Greenwood, State SC	
Address 2 (optional)  City Greenwood , State SC 2  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsat	Zip Code _29646
Address 2 (optional)  City Greenwood, State SC	Zip Code _29646
Address 2 (optional)  City Greenwood , State SC 2  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsate Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Asphalt road with grass shoulders	Zip Code _29646
Address 2 (optional)  City Greenwood , State SC 2  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsate Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Asphalt road with grass shoulders  ii. Animal activity observed?	Zip Code _29646

### Section III (Dam Inspection Checklist) continued **B.** Upstream Slope i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? Yes - adjacent to the water on the right side of the dam v. Settlement or cracks visible in slope? There is a depression that has formed on the right side of the dam (near the dock) near the middle of the structure C. Down Stream Slope i. Vegetation (grass, trees weeds)? Grass, couple trees on left side of the dam ii. Animal activity observed? iii. Any obvious alterations or repairs made? Bushes that lined the road have been removed, the bank of the lower pond (where the discharge pipe enters the downstream pond) has been armored with rip-rap, trees and debris in the vicinity of primary outlet have been removed iv. Erosion observed on down stream slope? There was erosion in the vicinity of the discharge pipe - this is most likely due to the removal of the vegetation in this area (you may want to consider filling this area in with compacted soil) v. Settlement or cracks visible in slope? Settlement has occured near crest on left side of the dam vi. Toe drains flowing? 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? Could not see the structure due to the dock that is situated immediately above the primary ii. Is there an obvious need to repair or replace trash rack? Could not see the structure due to the dock that is situated immediately above the primary spillway iii. Any noticeable problems with debris? Could not see the structure due to the dock that is situated immediately above the primary spillway iv. Is valve or gate present? Could not see the structure due to the dock that is situated immediately above the primary spillway **E. Outlet Pipe** i. Any water visibly flowing or leaking outside of the discharge pipe? ii. Describe any deflection or damage observed to the pipe: None iii. Visible condition of outlet channel: Clear (discharge enters a downstream pond) F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? No ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? Narrow path on the downstream slope in the left

emergency spillway - possibly from where the left emergency spillway has been in use in the past - monitor this area and fix any additional erosion that may occur

#### DHEC 2604 (Rev 11/2011)

iv. Any visible deterioration of structure's crest?

	·
vi. If applicable, a	any visible leakage below concrete spillway?
	lazard Class Issues changes immediately downstream of the dam that affects the hazard classification?
. Emergency Act	tion Plan (EAP) tion Plan provided by owner? No.
ii. Does EAP cor	ntains emergency alert notification plan? If so, when was it last updated?
iii. Does EAP co	ntain specific actions to take if the dam has failed or is near failure?
General comme	ents and recommendations:
General comme	onclusions)
Inspector spoke with arose during the rain	ents and recommendations:  Mr. Wilson Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problems
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General comme Inspector spoke with arose during the rain Thank you for the at	ents and recommendations:  In Mr. Wilson Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problems in events that had to be fixed.  Ittention to the structure. The dam appeared in good overall shape on the day of the inspection.
General comme Inspector spoke with arose during the rain Thank you for the at	ents and recommendations:  In Mr. Wilson Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problems in events that had to be fixed.  Ittention to the structure. The dam appeared in good overall shape on the day of the inspection.
General comme Inspector spoke with arose during the rain Thank you for the at	ents and recommendations:  In Mr. Wilson Bruce prior to the inspection. Mr. Bruce stated that in the summer of 2013 some problems in events that had to be fixed.  Ittention to the structure. The dam appeared in good overall shape on the day of the inspection.

#### **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.

- 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 though 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.



# 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: <b>D</b> 2968 & Hazard Class Significant	B. Name of Dam: Mamie Teague Dam
C. Inspection Date $(\underline{12}/\underline{18}/20\ \underline{14})$ & Time: $\underline{09:33\ AM}$	D. Date of Last Inspection: (//)
E. Location-County/City:	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Robert Teague	
I. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other ( <u>919</u> _) <u>848</u> <u>6618</u> _
Address 1 8620 Valleybrooke Drive	
Address 2 (optional)	
City Raleigh , State	<u> NC</u> Zip Code <u>27613</u>
Section II (Dam Condition)	
General Condition Assessment (Select one of the follo	owing):
a) Satisfactory b) Fair c) Poor	d) Unsatisfactory e) Not Rated
Section III (Dam Inspection Checklist)	
A. Dam Crest i. Vegetation (grass, trees weeds)? Dirt, Leaves, driveable, tree	es along borders with front and back slopes
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? Ruts from the right side (when looking north)	om vehicles, there has also been physical damage at the "curve"
DHEC 2604 (Rev 11/2011)	

### Section III (Dam Inspection Checklist) continued

ii. Any obvious alterations or repairs made?  iii. Any obvious alterations or repairs made?  iv. Erosion observed on down stream slope?  iv. Toe drains flowing?  iv. Toe drains flowing?  iv. Toe drains flowing?  iv. In any visible deterioration of structure?  iv. Is valve or gate present?  iv. Is valve	iii. Any obvious alterations or repairs made?  iv. Erosion observed on upstream slope?  vs. Stitlement or cracks visible in slope?  vs. Stope is uneven. Damage at the "turn"  Down Stream Slope  i. Vegetation (grass, frees weeds)?  Large and small trees, leaves, briars, rusted barrells, other non-environmental debris  iii. Animal activity observed?  iiii. Any obvious alterations or repairs made?  vs. Settlement or cracks visible in slope?  vs. Stitlement or cracks visible in slope?  vs. Settlement or cracks visible in slope?  vs. Stope is uneven. Damage at the "turn"  **Ves of the dam adjacent to the tow was a large pool of we large did not spear to be flowing. This area and as a large pool of we was a large pool of we large did not spear to be flowing. This area and as a large pool of we large did not spear to be f	B. Upstream Slope i. Vegetation (grass, trees weeds)?  Large and small trees, dirt, pine needles, briars	
iv. Erosion observed on upstream slope? Yes Stope is uneven. Damage at the "turn"  2. Down Stream Slope I. Vegetation (grass, trees weeds)? Large and small trees, leaves, briars, rusted barrells, other non-environmental debris  ii. Animal activity observed?  iii. Any obvious alterations or repairs made? no  iv. Erosion observed on down stream slope? Yes  v. Settlement or cracks visible in slope? Yes  vi. Toe drains flowing? N/A  vii. Any seepage observed? If so, describe location, At the right side of the dam adjacent to the toe was a large pool of we down slope of the dam adjacent to the toe was a large pool of we down slope of the dam adjacent to the toe was a large pool of we down slope of changes to the seepage -change in color, amount, etc.  3. Primary Spillway  i. Any visible deterioration of structure? Indicate the structure.  iii. 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? Possible outlet pipe found along toe of the dam water trail leading from this area. If this is an outlet pipe, the pipe needs to be uncovered.  ii. Describe any deflection or damage observed to the pipe:  iii. Visible condition of outlet channel: Not a defined channel  F. Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow? Right Emergency spillway - dear puth until it hit the tree line on the backslope of the dam.  Yes - but this appears to be from vehicles not water	iv. Erosion observed on upstream slope? Yes Stope is uneven. Damage at the "turn"  Down Stream Slope i. Vegetation (grass, trees weeds)? Large and small frees, leaves, brians, rusted barrells, other non-environmental debris  iii. Animal activity observed?  iii. Any obvious alterations or repairs made? no iv. Erosion observed on down stream slope? Yes  vi. Toe drains flowing? NA  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  high rate, and any turbidity or color within the flow:  high rate and any turbidity or color within the flow:  high rate and any turbidity or color within the flow:  high rate and any turbidity or color within the flow:  high rate and any turbidity or color within the flow:  high rate and any turbidity or color within the flow:  high rate and any turbidity or color within the flow:  high rate did not appear to be flowing. This area needs to be monitored water did not appear to be flowing. This area needs to be monitored water did not appear to be flowing. This area needs to be monitored water did not appear to be flowing. This area needs to be monitored water did not appear to be flowing. This area needs to be monitored water did not appear to be flowing. This area needs to be monitored water and possible deterioration of structure?  Did not see the structure.  Did not see the structure.  Possible outlet pipe found along toe of the dam and the pipe in t	ii. Animal activity observed? No	
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vii. Toe drains flowing?  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: dosely for signs of changes to the seepage - change in color, amount, etc.  Drimary Spillway  i. Any visible deterioration of structure?  bid not see the structure.  iii. 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?  iii. Describe any deflection or damage observed to the pipe:  iii. Visible condition of outlet channel:  Not a defined channel  Not a defined channel  F. Auxiliary (Emergency) Spillway  i. Animal activity observed?  No  No  At the right side of the dam adjacent to the toe was a large pool of we Water did not appear to be flowing. This area needs to be monitored dote the structure.  Water trail deading from this area. If this is an outlet pipe, the pipe needs to be uncovered.  iii. Describe any deflection or damage observed to the pipe:  iii. Visible condition of outlet channel:  Not a defined channel  F. Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  No  No  No  iii. Animal activity observed?  No  At the right side of the dam adjacent to the toe was a large pool of we deterior about the toe was a large pool of water did not appear to be flowing. This area needs to be monitored.  Water trail dead not appear to be flowing. This area needs to be monitored.  Possible outlet pipe found along toe of the dam.  Possible outlet pipe found along toe of the dam.  Possible outlet pipe found along toe of the dam.  Possible outlet pipe found along toe of the dam.  Possible outlet pipe found along toe of the dam.  Possible outlet pipe found along toe of the dam.  Possible outlet pipe found along toe of the dam.	vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: dosely for signs of changes to the seepage - change in color, amount, etc.  Primary Spillway i. Any visible deterioration of structure?  Did not see the structure.  Did not see the structure.  iii. 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?  Avater trail leading from this area. If this is an outlet pipe, the pipe needs to be uncovered.  iii. Describe any deflection or damage observed to the pipe:  iii. Visible condition of outlet channel:  Not a defined channel  Noticeable obstructions to flow?  Right Emergency spillway - clear path until it hit the tree line on the backslope of the dam.  Mater in this appears to be from vehicles of tweeter in the pipe and the pipe in the seed of the dam.  Auxiliary (Emergency) Spillway i. Noticeable deterioration in the approach or discharge channel?  Yes - but this appears to be from vehicles of tweeter in Any visible deterioration of structure's crest?  No Any visible deterioration of structure's crest?	iv. Erosion observed on down stream slope? Yes	
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flow rate, and any turbidity or color within the flow: dosely for signs of changes to the seepage - change in color, amount, etc.  D. Primary Spillway i. Any visible deterioration of structure?  Did not see the structure.  iii. 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? i. Any water visibly flowing or leaking outside of the discharge pipe?  Possible outlet pipe found along toe of the dam Water trail leading from this area. If this is an outlet pipe, the pipe needs to be uncovered.  ii. Describe any deflection or damage observed to the pipe:  iii. Visible condition of outlet channel:  Not a defined channel  F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow?  Right Emergency spillway - clear path until it hit the tree line on the backslope of the dam.  iii. Animal activity observed?  No  iii. Any noticeable deterioration in the approach or discharge channel?  Yes - but this appears to be from vehicles not water	flow rate, and any turbidity or color within the flow:  Josely for signs of changes to the seepage - change in color, amount, etc.  D. Primary Spillway  i. Any visible deterioration of structure?  Did not see the structure.  Jii. Is there an obvious need to repair or replace trash rack?  Jiii. Any noticeable problems with debris?  Jiv. Is valve or gate present?  Jiv. Is valve or	vi. Toe drains flowing? N/A	
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iv. Any visible deterioration of structure's crest?	_ ·	not water	
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vi. If applicable, any	y visible leakage below concrete spillway?
H. Downstream/Haz	zard Class Issues
i. Any noticeable ch	nanges immediately downstream of the dam that affects the hazard classification? No
. Emergency Actio	
i. Emergency Actio	n Plan provided by owner? No
ii. Does EAP conta	ins emergency alert notification plan? If so, when was it last updated?
iii. Does EAP conta	ain specific actions to take if the dam has failed or is near failure?
General comment	clusions) ts and recommendations:
General comment	clusions)  ts and recommendations:  ould not be performed due to site conditions. The slopes are uneven and steep. The amount of
General comment A routine inspection co unwanted vegetation a	clusions)  Its and recommendations:  Ould not be performed due to site conditions. The slopes are uneven and steep. The amount of slong with the leaves/pine needles covering the ground made it difficult to inspect the surface of the
General comment A routine inspection co unwanted vegetation a structure. Please remo	clusions)  ts and recommendations:  build not be performed due to site conditions. The slopes are uneven and steep. The amount of slong with the leaves/pine needles covering the ground made it difficult to inspect the surface of the love all small trees/brush/briars from the structure (anything with a diameter less than four inches).
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#### **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.

- 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 though 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.



DHEC 2604 (Rev 11/2011)

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

MOTE PROTECT PROSPER	o
Section I (Owner's Information)	
A. Dam Number: <b>D</b> 2971 & Hazard Class Significant	B. Name of Dam: Scurry Dam
C. Inspection Date ( <u>11/06/20 14</u> ) & Time: <u>10:53 AM</u>	D. Date of Last Inspection: (12/13/2011_)
E. Location-County/City: Laurens / Waterloo	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: S.S. Wilson Properties, LLC	
I. Contact Person (if different from above): Stephen Wilson	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ( <u>864_</u> ) <u>233_</u> - <u>5857</u>
	Office ()
	Other ( <u>864</u> _) <u>982</u> <u>1184</u> _
K. Dam Owner's or Contact Person's mailing address:	
Address 1 109 Pine Forest Drive	
Address 2 (optional)	
City Greenville , State	SC Zip Code 29601
Section II (Dam Condition)	
General Condition Assessment (Select one of the follow	wing):
a) Satisfactory b) Fair c) Poor	d) Unsatisfactory e) Not Rated
Section III (Dam Inspection Checklist)	
A. Dam Crest     i. Vegetation (grass, trees weeds)?	nintained road and grass shoulders, a few cracks in the asphalt
ii. Animal activity observed? No	
ii. Animal activity observed? №	
ii. Animal activity observed? No iii. Any obvious alteration or repairs made? No	

### Section III (Dam Inspection Checklist) continued

cleaned out  ii. Animal activity observed? One animal track was v	viciblo
ii. Allimai activity observed:	violute
iii. Any obvious alterations or repairs made?	No
iv. Erosion observed on upstream slope? Yes (	(owner has replaced rip-rap in areas that had eroded in the past)
v. Settlement or cracks visible in slope? No	
C. Down Stream Slope	
i. Vegetation (grass, trees weeds)? Weeds, grass	, small trees, briars
ii. Animal activity observed? Could not inspect prop	erly due to the steepness of the slope
iii. Any obvious alterations or repairs made?	No
iv. Erosion observed on down stream slope?	Several area of depressions, sloughs, erosion - backslope is not even. This has
noted in previous inspections. Inspector does not know if areas have	·
v. Settlement or cracks visible in slope? Several noted in previous inspections. Inspector does not know if areas have	area of depressions, sloughs, erosion - backslope is not even. This has been
vi. Toe drains flowing? N/A	wordened affice the last inspection
vii. Any seepage observed? If so, describe loca	
flow rate, and any turbidity or color within the flo	ow:
ii. Is there an obvious need to repair or replace	trash rack? No
iii. Any noticeable problems with debris? Log is	s in the discharge end of of the a spillway pipe. All debris should be removed in
pipes, leading to the pipes, and in the outlet discharge area to ensure	water has a free path to flow
iv. Is valve or gate present? N/A	
5 0 4 4 P	
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
	to the pipe: No
iii. Visible condition of outlet channel: Clear with	to the pipe:  No  Some debris. Monitor the sides of the slope on the southeast side of the outlet
channel to ensure sediment displaced from erosion activities does not be	some debris. Monitor the sides of the slope on the southeast side of the outlet
Oldar William	some debris. Monitor the sides of the slope on the southeast side of the outlet
channel to ensure sediment displaced from erosion activities does not be.  F. Auxiliary (Emergency) Spillway	some debris. Monitor the sides of the slope on the southeast side of the outlet
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channel to ensure sediment displaced from erosion activities does not be a channel to ensure sediment displaced from erosion activities does not be a channel to ensure sediment displaced from erosion activities does not be a channel activity does not be a channel ac	some debris. Monitor the sides of the slope on the southeast side of the outlet block the spillway path. Stone placed in discharge water path covered up with sed
channel to ensure sediment displaced from erosion activities does not be a channel to ensure sediment displaced from erosion activities does not be a channel to ensure sediment displaced from erosion activities does not be a channel activity does not be a channel ac	some debris. Monitor the sides of the slope on the southeast side of the outlet block the spillway path. Stone placed in discharge water path covered up with sec

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. One will be mailed with this report
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)
Section IV (Conclusions)  General comments and recommendations:  Inspector could not perform a proper inspection of the backslope of the dam due to site conditions (steepness of the slope,
General comments and recommendations:
General comments and recommendations:  Inspector could not perform a proper inspection of the backslope of the dam due to site conditions (steepness of the slope,
General comments and recommendations:  Inspector could not perform a proper inspection of the backslope of the dam due to site conditions (steepness of the slope, wet conditions, and not having a non-briar filled path to the backslope).
General comments and recommendations:  Inspector could not perform a proper inspection of the backslope of the dam due to site conditions (steepness of the slope, wet conditions, and not having a non-briar filled path to the backslope).  Please continue to monitor the slopes of the dam closely. Please call the Department if you notice any changes.
General comments and recommendations: Inspector could not perform a proper inspection of the backslope of the dam due to site conditions (steepness of the slope, wet conditions, and not having a non-briar filled path to the backslope).  Please continue to monitor the slopes of the dam closely. Please call the Department if you notice any changes.  Your goal is to maintain a grass cover across all aspects of the dam. All brush/weeds/briars/etc should be removed from the
General comments and recommendations:  Inspector could not perform a proper inspection of the backslope of the dam due to site conditions (steepness of the slope, wet conditions, and not having a non-briar filled path to the backslope).  Please continue to monitor the slopes of the dam closely. Please call the Department if you notice any changes.  Your goal is to maintain a grass cover across all aspects of the dam. All brush/weeds/briars/etc should be removed from the area between the water and the spillway pipes, the primary spillway discharge area, the front slope, and the back slope
General comments and recommendations:  Inspector could not perform a proper inspection of the backslope of the dam due to site conditions (steepness of the slope, wet conditions, and not having a non-briar filled path to the backslope).  Please continue to monitor the slopes of the dam closely. Please call the Department if you notice any changes.  Your goal is to maintain a grass cover across all aspects of the dam. All brush/weeds/briars/etc should be removed from the area between the water and the spillway pipes, the primary spillway discharge area, the front slope, and the back slope.  After returning to the office, inspector compared photographs from current inspection to past inspections. It was noted
General comments and recommendations:  Inspector could not perform a proper inspection of the backslope of the dam due to site conditions (steepness of the slope, wet conditions, and not having a non-briar filled path to the backslope).  Please continue to monitor the slopes of the dam closely. Please call the Department if you notice any changes.  Your goal is to maintain a grass cover across all aspects of the dam. All brush/weeds/briars/etc should be removed from the area between the water and the spillway pipes, the primary spillway discharge area, the front slope, and the back slope.  After returning to the office, inspector compared photographs from current inspection to past inspections. It was noted that in 2008 after the spillway pipes were installed, stone was placed between the discharge end of the pipes and went
General comments and recommendations:  Inspector could not perform a proper inspection of the backslope of the dam due to site conditions (steepness of the slope, wet conditions, and not having a non-briar filled path to the backslope).  Please continue to monitor the slopes of the dam closely. Please call the Department if you notice any changes.  Your goal is to maintain a grass cover across all aspects of the dam. All brush/weeds/briars/etc should be removed from the area between the water and the spillway pipes, the primary spillway discharge area, the front slope, and the back slope. After returning to the office, inspector compared photographs from current inspection to past inspections. It was noted that in 2008 after the spillway pipes were installed, stone was placed between the discharge end of the pipes and went downstream close to the water path. It appears that this area is now filled with sediment and vegetation. You probably

#### **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.

- 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 though 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.



# 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: <b>D</b> <u>2989</u> & Hazard Class <u>Significant</u> B. Na	me of Dam: Bailey Dam 2
C. Inspection Date (02/13/20 15) & Time: 10:00 AM D. Da	te of Last Inspection: (02/09/2012_)
E. Location-County/City:	C Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Dixon Land Company, L.P.	
I. Contact Person (if different from above): Norman Dixon	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other (404_) 273 5433
Address 1 16 Peachtree Street	
Address 1 16 Peachtree Street  Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional)  City Clinton , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	
Address 2 (optional)  City Clinton , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	Zip Code _29325
Address 2 (optional)  City Clinton , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor d) Un	Zip Code _29325 satisfactory  e) Not Rated
Address 2 (optional)  City Clinton , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Un  Section III (Dam Inspection Checklist)  A. Dam Crest	Zip Code _29325 satisfactory  e) Not Rated
Address 2 (optional)  City Clinton , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Un  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)?  Majority of the crest is Grass, vehicles of	Zip Code _29325 satisfactory  e) Not Rated
Address 2 (optional)  City Clinton , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Un  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Majority of the crest is Grass, vehicles of ii. Animal activity observed?	Zip Code _29325 satisfactory  e) Not Rated

#### Section III (Dam Inspection Checklist) continued

DHEC 2604 (Rev 11/2011)

### **B.** Upstream Slope i. Vegetation (grass, trees weeds)? Mature trees, thick pine straw covering, brush, vegetative debris Owner has worked to remove excess vegetation on the dam - especially in the vicinity of the southeast corner of the dam ii. Animal activity observed? iii. Any obvious alterations or repairs made? Have been working on clearing brush out of southeast corner (front and back iv. Erosion observed on upstream slope? Appears to be some erosion that has occured along the western border near the crest. v. Settlement or cracks visible in slope? Slope along the western border is very uneven and several inches of pinestraw C. Down Stream Slope i. Vegetation (grass, trees weeds)? Briars, pine trees, very steep, brush Debris from cutting on outlet side, Owner has worked to remove excess vegetation on the dam - especially in the vicinity of the southeast corner of the dam ii. Animal activity observed? iii. Any obvious alterations or repairs made? Clearing of excess vegetation in areas iv. Erosion observed on down stream slope? Could not inspect closely due to site conditions v. Settlement or cracks visible in slope? Unable to fully inspect the back slope vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, Could not fully inspect due to site conditions flow rate, and any turbidity or color within the flow: D. Primary Spillway i. Any visible deterioration of structure? Two spillways exist: One is along the western border - pipe did not appear rusty Second is on the southeast corner of the dam - pipe was under water ii. Is there an obvious need to repair or replace trash rack? Ensure both spillways have a trash rack iii. Any noticeable problems with debris? iv. Is valve or gate present? A valve was present on the downstream side of the pipe on the southeast side of the dam E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? Pipe along western border is under water in downstream pond, no visible flowing water at other discharge pipe ii. Describe any deflection or damage observed to the pipe: None on 2nd pipe iii. Visible condition of outlet channel: Clear F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? Inspector is unsure what is considered the emergency spillway (the pipe in the SE corner of the northern border of the dam?) ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? iv. Any visible deterioration of structure's crest?

vi. If applicable, a	ny visible leakage below concrete spillway?
H. Downstream/H	lazard Class Issues
i. Any noticeable	changes immediately downstream of the dam that affects the hazard classification? No
. Emergency Act	
i. Emergency Act	tion Plan provided by owner?  Yes
ii. Does EAP con	tains emergency alert notification plan? If so, when was it last updated? Yes, 2/12/15
iii. Does EAP cor	ntain specific actions to take if the dam has failed or is near failure?
Section IV (Co	nclusions)
Section IV (Co	nclusions)
	nclusions) Ints and recommendations:
General comme	
General comme Donnie Loftis, Bailey	ents and recommendations:
General comme Donnie Loftis, Bailey Please continue to w	Ints and recommendations:  Dixon, Norman Dixon talked with me before and after the inspection
General comme Donnie Loftis, Bailey Please continue to w four inches in diamet	Ints and recommendations:  Dixon, Norman Dixon talked with me before and after the inspection  Tork on clearing the excess debris off the slopes of the dam. In general, all vegetation that is less than
General comme Donnie Loftis, Bailey Please continue to w four inches in diamet does not grow out of	ents and recommendations:  Dixon, Norman Dixon talked with me before and after the inspection  Pork on clearing the excess debris off the slopes of the dam. In general, all vegetation that is less than ter should be removed from the structure. Please keep the vegetation cut back on a regular basis so it
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General comme Donnie Loftis, Bailey Please continue to w four inches in diamet does not grow out of I was unable to perfo	Ints and recommendations:  Dixon, Norman Dixon talked with me before and after the inspection  York on clearing the excess debris off the slopes of the dam. In general, all vegetation that is less than the should be removed from the structure. Please keep the vegetation cut back on a regular basis so it hand again. After removal of vegetation, re-establish a grass cover across all aspects of the structure orm a full inspection due to site conditions: steepness of slopes, thick layers of pine straw preventing
General comme Donnie Loftis, Bailey Please continue to w four inches in diamet does not grow out of I was unable to perfo	Ints and recommendations:  Dixon, Norman Dixon talked with me before and after the inspection  York on clearing the excess debris off the slopes of the dam. In general, all vegetation that is less than the should be removed from the structure. Please keep the vegetation cut back on a regular basis so it hand again. After removal of vegetation, re-establish a grass cover across all aspects of the structure orm a full inspection due to site conditions: steepness of slopes, thick layers of pine straw preventing
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General comme Donnie Loftis, Bailey Please continue to w four inches in diamet does not grow out of I was unable to perfo	Ints and recommendations:  Dixon, Norman Dixon talked with me before and after the inspection  York on clearing the excess debris off the slopes of the dam. In general, all vegetation that is less than the should be removed from the structure. Please keep the vegetation cut back on a regular basis so it hand again. After removal of vegetation, re-establish a grass cover across all aspects of the structure orm a full inspection due to site conditions: steepness of slopes, thick layers of pine straw preventing
Donnie Loftis, Bailey Please continue to w four inches in diamet does not grow out of I was unable to perfo	Ints and recommendations:  Dixon, Norman Dixon talked with me before and after the inspection  York on clearing the excess debris off the slopes of the dam. In general, all vegetation that is less than the should be removed from the structure. Please keep the vegetation cut back on a regular basis so it hand again. After removal of vegetation, re-establish a grass cover across all aspects of the structure orm a full inspection due to site conditions: steepness of slopes, thick layers of pine straw preventing

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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.
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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:

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- 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 though 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.



# 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: <b>D</b> 2996 & Hazard Class C2	B. Name of Dam: Loblolly Timberlands Dam
C. Inspection Date (11/29/20 12) & Time: 11:40 AM	D. Date of Last Inspection: (11_/17_/2009_)
E. Location-County/City:	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Emily F Bailey	
I. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ( <u>864</u> ) <u>833</u> - <u>2741</u>
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other ()
Address 1 PO Box 380	
Addicas i	
Address 2 (optional)	
Address 2 (optional)	SC Zip Code _29325
Address 2 (optional)	
Address 2 (optional), State S	SC Zip Code <u>29325</u>
Address 2 (optional)  City Clinton , State S  Section II (Dam Condition)  General Condition Assessment (Select one of the following)	SC Zip Code <u>29325</u>
Address 2 (optional)  City Clinton , State S  Section II (Dam Condition)  General Condition Assessment (Select one of the following)	SC Zip Code _29325
Address 2 (optional)  City Clinton , State S  Section II (Dam Condition)  General Condition Assessment (Select one of the following a) Satisfactory b) Fair c) Poor	SC Zip Code _29325
Address 2 (optional)  City Clinton , State S  Section II (Dam Condition)  General Condition Assessment (Select one of the following)  a) Satisfactory b) Fair c) Poor   Section III (Dam Inspection Checklist)  A. Dam Crest	SC Zip Code _29325
Address 2 (optional)  City Clinton , State S  Section II (Dam Condition)  General Condition Assessment (Select one of the following a) Satisfactory b) Fair c) Poor Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Leaves, Large trees	SC Zip Code _29325
Address 2 (optional)  City Clinton , State S  Section II (Dam Condition)  General Condition Assessment (Select one of the following a) Satisfactory b) Fair c) Poor Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Leaves, Large trees  ii. Animal activity observed? No	SC Zip Code _29325

## Section III (Dam Inspection Checklist) continued **B. Upstream Slope** i. Vegetation (grass, trees weeds)? Trees, large and small ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? No v. Settlement or cracks visible in slope? No C. Down Stream Slope i. Vegetation (grass, trees weeds)? Large Trees ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? v. Settlement or cracks visible in slope? No vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, No flow rate, and any turbidity or color within the flow: D. Primary Spillway i. Any visible deterioration of structure? There is not a primary spillway ii. Is there an obvious need to repair or replace trash rack? Not Applicable iii. Any noticeable problems with debris? Not Applicable iv. Is valve or gate present? Not Applicable E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? There was not an outlet pipe. ii. Describe any deflection or damage observed to the pipe: There was not an outlet pipe. iii. Visible condition of outlet channel: F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? iv. Any visible deterioration of structure's crest? DHEC 2604 (Rev 11/2011)

v. п аррисавіе, а	ny observed exposure of rebar reinforcement?	
vi. If applicable, a	any visible leakage below concrete spillway?	
	lazard Class Issues changes immediately downstream of the dam that affects the hazard classification?	No
. Emergency Act	tion Plan (EAP) tion Plan provided by owner? No.	
ii. Does EAP cor	ntains emergency alert notification plan? If so, when was it last updated?	
iii. Does EAP co	ntain specific actions to take if the dam has failed or is near failure?	
General comme	ents and recommendations:	
General comme	ents and recommendations:  ees exist on the structure. Some of the trees have already fallen over. Your goal should be to	
A large number of tr	ents and recommendations:  ees exist on the structure. Some of the trees have already fallen over. Your goal should be to  ver over all portions of the dam. Due to the condition of the dam on the day of the inspection, you sl	nould
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- 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 though 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.



# 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: <b>D</b> <u>2999</u> & Hazard Class <u>SIGNIFICANT</u> B. N	ame of Dam: LAWSON LAKE
C. Inspection Date (02/25/20 15) & Time: 10:57 D. D.	ate of Last Inspection: (11_/20_/2010_)
E. Location-County/City: / F. E	QC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT, DANNI HALLMAN	
H. Owner's Name: WHITTEN CENTER	<u>-</u>
I. Contact Person (if different from above): DALE HAYES	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ( <u>864</u> ) <u>938</u> - <u>3548</u>
K. Dam Owner's or Contact Person's mailing address:	Other ()
Address 1 PO BOX 239	
Address 1 PO BOX 239  Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional)	Zip Code _29325
Address 2 (optional)	Zip Code _29325
Address 2 (optional)  City CLINTON , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor  d) U  Section III (Dam Inspection Checklist)  A. Dam Crest	Zip Code _29325
Address 2 (optional)  City CLINTON , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor  d) U  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Grass, vehicles have caused muddy a	Zip Code _29325
Address 2 (optional)  City CLINTON , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) U  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Grass, vehicles have caused muddy a  ii. Animal activity observed? No	Zip Code _29325

### Section III (Dam Inspection Checklist) continued

	egetation (grass, trees weeds)? Majority of the upstream slope has a grass cover.
	sh/weeds/briars along the waterline need to be removed before they grow any larger.  nimal activity observed? animal paths were evident
II. A	annia activity observed:
iii. A	ny obvious alterations or repairs made? No
iv. E	rosion observed on upstream slope? No
v. Se	ettlement or cracks visible in slope? There were several areas where settlement was evident. These areas should be mo
	o look for any changes that may be occurring
	wn Stream Slope
i. Ve	egetation (grass, trees weeds)? Majority of the down stream slope has a grass cover.
ii. A	nimal activity observed? animal paths were evident
iii. A	ny obvious alterations or repairs made? No
iv. E	rosion observed on down stream slope? No
	ettlement or cracks visible in slope? There were several areas where settlement was evident. These areas should be more
	o look for any changes that may be occurring
VI. T	De drains flowing? Not Applicable
vii A	ny seepage observed? If so, describe location, Difficult to detect seepage due to the recent rain events
	rate, and any turbidity or color within the flow:
excavat	
). Pri	e needs permit  mary Spillway  y visible deterioration of structure? No
<b>). Pri</b> i. An	mary Spillway
<b>). Pri</b> i. An	mary Spillway y visible deterioration of structure? No
<b>). Pri</b> i. An ii. Is	mary Spillway y visible deterioration of structure? No
i. An ii. Is iii. A	mary Spillway y visible deterioration of structure?  No  there an obvious need to repair or replace trash rack?  No
i. An ii. Is iii. A	mary Spillway y visible deterioration of structure?  there an obvious need to repair or replace trash rack?  ny noticeable problems with debris?  Debris needs to be cleaned off of the trash rack  valve or gate present?  Inspectors could not see a valve stem
i. An ii. Is iii. A	mary Spillway y visible deterioration of structure?  No  there an obvious need to repair or replace trash rack?  No  ny noticeable problems with debris?  Debris needs to be cleaned off of the trash rack  valve or gate present?  Inspectors could not see a valve stem  tilet Pipe
i. An ii. Is iii. A	mary Spillway y visible deterioration of structure?  there an obvious need to repair or replace trash rack?  ny noticeable problems with debris?  Debris needs to be cleaned off of the trash rack  valve or gate present?  Inspectors could not see a valve stem
i. An ii. Is iii. A iv. Is E. Ou	mary Spillway y visible deterioration of structure?  No  there an obvious need to repair or replace trash rack?  No  ny noticeable problems with debris?  Debris needs to be cleaned off of the trash rack  valve or gate present?  Inspectors could not see a valve stem  tlet Pipe y water visibly flowing or leaking outside of the discharge pipe?  No
i. An ii. Is iii. A iv. Is E. Ou	mary Spillway y visible deterioration of structure?  there an obvious need to repair or replace trash rack?  ny noticeable problems with debris?  Debris needs to be cleaned off of the trash rack  valve or gate present?  Inspectors could not see a valve stem
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i. An ii. Is iii. A iv. Is ii. An ii. De	there an obvious need to repair or replace trash rack?  No  The problems with debris?  Debris needs to be cleaned off of the trash rack  Valve or gate present?  Inspectors could not see a valve stem  The problems with debris and the problems with d
ii. Is iii. A iv. Is ii. De iii. V	there an obvious need to repair or replace trash rack?  No  ny noticeable problems with debris?  Debris needs to be cleaned off of the trash rack  valve or gate present?  Inspectors could not see a valve stem  tlet Pipe  y water visibly flowing or leaking outside of the discharge pipe?  escribe any deflection or damage observed to the pipe:  No  None
ii. Is iii. A iv. Is ii. De iii. V	there an obvious need to repair or replace trash rack?  No  The problems with debris?  Debris needs to be cleaned off of the trash rack  Valve or gate present?  Inspectors could not see a valve stem  Inspectors co
ii. Is iii. A iv. Is ii. De iii. V	there an obvious need to repair or replace trash rack?  No  The problems with debris?  Debris needs to be cleaned off of the trash rack  Valve or gate present?  Inspectors could not see a valve stem  Inspectors co
ii. Is iii. A iv. Is iii. V iii. V iii. No	there an obvious need to repair or replace trash rack?  No  There an obvious need to repair or replace trash rack?  No  There an obvious need to repair or replace trash rack?  No  There an obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off the discharge need to
ii. Is iii. A iv. Is iii. De iii. V  - Au ii. No iii. An	there an obvious need to repair or replace trash rack?  No  There an obvious need to repair or replace trash rack?  There an obvious need to repair or replace trash rack?  The provided by noticeable problems with debris?  Debris needs to be cleaned off of the trash rack  There are obvious need to repair or replace trash rack?  Debris needs to be cleaned off of the trash rack  There are obvious need to repair or replace trash rack?  Debris needs to be cleaned off of the trash rack  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the discharge pipe?  No  There are obvious need to be cleaned off of the discharge pip
ii. Is iii. A iv. Is iii. De iii. V  - Au ii. No iii. An	there an obvious need to repair or replace trash rack?  No  There an obvious need to repair or replace trash rack?  No  There an obvious need to repair or replace trash rack?  No  There an obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to repair or replace trash rack?  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off of the trash rack  No  There are obvious need to be cleaned off the discharge need to

vi. If applicable, any visible leakage below concr	
эрричин, шу наши наши	rete spillway? N/A
I. Downstream/Hazard Class Issues	
i. Any noticeable changes immediately downstre	eam of the dam that affects the hazard classification?
The hazard classification should be checked to determin	e if this should be a High hazard Dam due to I-26. Central Office
staff will look at the classification.	
Emergency Action Plan (EAP)     i. Emergency Action Plan provided by owner?	No. A blank copy will be mailed with this inspection report.
ii. Does EAP contains emergency alert notificati	ion plan? If so, when was it last updated?
iii. Does EAP contain specific actions to take if t	the dam has failed or is near failure?
General comments and recommendations:	
Jason Keen (Whitten Center) attended the inspection.	
	ver pole on left. The hole had water in it. Per Jason Keen, this could
There is a hole on the downstream slope, just above pow	ver pole on left. The hole had water in it. Per Jason Keen, this could be the cause of the cause
There is a hole on the downstream slope, just above pow	•
There is a hole on the downstream slope, just above power could be from the previous placement of the power poles of this hole and take appropriate actions.	•
There is a hole on the downstream slope, just above power could be from the previous placement of the power poles of this hole and take appropriate actions.	s (they have been moved recently). Please investigate the cause
There is a hole on the downstream slope, just above power could be from the previous placement of the power poles of this hole and take appropriate actions.  Please remember that the structure should consists of a slope, and left emergency spillway.	s (they have been moved recently). Please investigate the cause
There is a hole on the downstream slope, just above power could be from the previous placement of the power poles of this hole and take appropriate actions.  Please remember that the structure should consists of a slope, and left emergency spillway.	s (they have been moved recently). Please investigate the cause vegetative (grass) cover - this includes the crest, back slope, front
There is a hole on the downstream slope, just above power could be from the previous placement of the power poles of this hole and take appropriate actions.  Please remember that the structure should consists of a slope, and left emergency spillway.  Closely monitor the dam for seepage and for the settling	vegetative (grass) cover - this includes the crest, back slope, front

#### **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.

- 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 though 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.



# 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: <b>D</b> 3003 & Hazard Class C2 B. Name	e of Dam: Bedenbaugh Dam
C. Inspection Date (11/29/20 12) & Time: 10:15 AM D. Date	of Last Inspection: (12/04/2009_)
E. Location-County/City:	Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett, John Poole, Petar Milenkov	
H. Owner's Name: Donald Devore	
I. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ( <u>803</u> ) <u>276</u> - <u>8814</u>
	Office ()
V. Dom Oumaria or Contact Dargonia mailing address:	Other ()
K. Dam Owner's or Contact Person's mailing address:	
Address 1 3572 Bush River Road	<del>-</del>
Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional)  City Kinards , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	
Address 2 (optional)  City Kinards , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	Zip Code _2 <u>9366</u>
Address 2 (optional)  City Kinards , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor  d) Unsat	Zip Code _29366 isfactory e) Not Rated
Address 2 (optional)  City Kinards , State SC   Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor  d) Unsate Section III (Dam Inspection Checklist)  A. Dam Crest	Zip Code _29366 isfactory e) Not Rated
Address 2 (optional)  City Kinards , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsate Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Narrow crest which consists of a dirt vehicular to the consists of a dirt vehicular to	Zip Code _29366 isfactory e) Not Rated
Address 2 (optional)  City Kinards , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsate Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Narrow crest which consists of a dirt vehiculii. Animal activity observed? No.	Zip Code _29366 isfactory e) Not Rated

### Section III (Dam Inspection Checklist) continued **B.** Upstream Slope i. Vegetation (grass, trees weeds)? Grassed upstream slope ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? Yes. Erosion observed on upstream slope adjacent to the crest of the dam. Appears that there has been slope failure in the past. v. Settlement or cracks visible in slope? no. C. Down Stream Slope i. Vegetation (grass, trees weeds)? The back slope is mostly void of excess vegetation (although a grass cover does not exist). Please try and maintain a grass cover and to keep the trees off of the dam. ii. Animal activity observed? iii. Any obvious alterations or repairs made? Trees and brush have been removed from the structure. iv. Erosion observed on down stream slope? Yes. Water flows onto the backslope from the emergency spillway. A large area of erosion is visible in the path of the water. v. Settlement or cracks visible in slope? Areas of settling/erosion have occurred all across the down stream slope of the dam. vi. Toe drains flowing? 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? There is not a primary spillway. 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? There is not a discharge 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? The right emergency spillway has been blocked at the crest of the dam. Water can no longer flow across the crest and onto the backslope. ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? Unable to tell if the erosion on the backslope is worse than in previous inspections. iv. Any visible deterioration of structure's crest?

vi. If applicable, any	visible leakage below concrete spillway?
H. Downstream/Haz	
i. Any noticeable ch	anges immediately downstream of the dam that affects the hazard classification?
None	
l. Emergency Action	
i. Emergency Action	n Plan provided by owner? No
ii. Does EAP contai	ns emergency alert notification plan? If so, when was it last updated?
··· B EAD (	is an arific actions to take if the described anis seconfail mag
Section IV (Cond	s and recommendations:
Section IV (Conc General comments Vegetation has been re	clusions) s and recommendations: moved from the backslope since the last inspection. As a result, we were better able to perform ou
Section IV (Conc General comments Vegetation has been re inspection. The dam ap	s and recommendations:  moved from the backslope since the last inspection. As a result, we were better able to perform our opears to be in poor shape. There are signs of slope failures on the the front and back slopes of the
Section IV (Conc General comments Vegetation has been re inspection. The dam ap	clusions) s and recommendations: moved from the backslope since the last inspection. As a result, we were better able to perform ou
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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.

- 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 though 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.



#### C. Earl Hunter, Commissioner

Promoting and protecting the health of the public and the environment.

#### Certified Mail 7012 0470 0000 4676 5610

December 04, 2012

Donald C Devore 3573 Bush River Road Kinards, SC 29366

Re: Re-inspection of Dam D-3003 Bedenbaugh Dam Laurens County

Dear Mr. Devore:

As you are aware DHEC is responsible for inspections of high and significant hazard dams to ensure their safety. On November 29, 2012, the Department conducted an inspection on the "Class 2 Significant Hazard" dam referenced above.

The results of the inspection are detailed on the attached inspection report.

I'm attaching a blank copy of an Emergency Notification Plan. Please fill out the form and return a copy to me. Retain a copy for your records. The plan lists a set of contacts to make in the event of a problem with the structure. It should be reviewed before significant rains and storms (e.g. hurricanes).

I am also enclosing a blank "Notification of Ownership Change" form. This form must be filed with the South Carolina Department of Health and Environmental Control in the event of transfer of ownership of the dam.

Due to the condition of the dam, we are requesting that you have a Professional Engineer perform a detailed analysis of the dam within ninety (90) days of the receipt of this letter. A copy of the report must be sent to me within this time frame as well. Please call me as soon as you have set something up with a Professional Engineer. I am including a list of Professional Engineers that have worked with the Department in the past. You are not limited to these Engineers and you may choose one not on this list.

The dam will be re-inspected in three years. If you have any questions or if I can be of any assistance prior to the re-inspection, please give me a call at 864-223-0333.

Sincerely,

Stephanie Hackett District Engineer Region I Greenwood EQC

Enclosures

Cc: John Poole, Bureau of Water



DHEC 2604 (Rev 11/2011)

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

OMOTE PROTECT PROSPER	
Section I (Owner's Information)	
A. Dam Number: <b>D</b> 3004 & Hazard Class <sup>2</sup>	B. Name of Dam: Wallace Boyd Dam
C. Inspection Date (11/06/20 14) & Time: 08:45	D. Date of Last Inspection: (//)
E. Location-County/City: Laurens / Clinton	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Quaker Creek Timberland Co LLC	
I. Contact Person (if different from above): Wallace Boyd	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other ( <u>864</u> _) <u>316</u> <u>3772</u> _
Address 1 PO Roy 266	
Address 2 (optional)	
	re <u>SC</u> Zip Code <u>29346</u>
City Giendale , Stat	
Section II (Dam Condition)	
General Condition Assessment (Select one of the foll	owing):
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 two gravel trace	cks for vehicular traffic
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? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? № v. Settlement or cracks visible in slope? No C. Down Stream Slope i. Vegetation (grass, trees weeds)? The majority of the backslope had a grass cover. There is an area of trees/brush in the vicinity of the primary outlet discharge pipe. There is a small area of a few trees to the left of the primary spillway outlet. ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? v. Settlement or cracks visible in slope? No vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, No flow rate, and any turbidity or color within the flow: D. Primary Spillway i. Any visible deterioration of structure? ii. Is there an obvious need to repair or replace trash rack? iii. Any noticeable problems with debris? There were a couple of logs on the trash rack - these need to be removed iv. Is valve or gate present? Yes. Owner turns the gate infrequently E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? ii. Describe any deflection or damage observed to the pipe: None iii. Visible condition of outlet channel: Difficult to see due to the brush surrounding the oulet pipe area. F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? There is a line of trees on the side of the emergency spillway path on the backslope. It does not appear that these trees will hinder water flow (left emergency spillway) ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? iv. Any visible deterioration of structure's crest?

vi. If applicable	, any visible leakage below concrete spillway? N/A
H. Downstream	/Hazard Class Issues
i. Any noticeab	le changes immediately downstream of the dam that affects the hazard classification? No
. Emergency A	ction Plan (EAP)
i. Emergency A	Action Plan provided by owner? Owner signed EAP on-site
	ontains emergency alert notification plan? If so, when was it last updated?  a phone number for a downstream land owner. Plan updated on 11/7/14
iii. Does EAP c	contain specific actions to take if the dam has failed or is near failure? Yes
General comm	nents and recommendations:
General comm	
General comm	nents and recommendations:
General common Per Mr. Wallace the Please continue to	ments and recommendations: ne dam was "rebuilt" in 1990.
General common Per Mr. Wallace the Please continue to of the structure. T	ments and recommendations:  ne dam was "rebuilt" in 1990.  o perform routine maintenance on the structure. Your goal is to maintain a grass cover across all aspects
General common Per Mr. Wallace the Please continue to of the structure. The removed from the structure of the structure of the structure.	ments and recommendations:  ne dam was "rebuilt" in 1990.  o perform routine maintenance on the structure. Your goal is to maintain a grass cover across all aspects  The majority of the dam is grassed. The brush and small trees (less than 4") in diameter should be
General common Per Mr. Wallace the Please continue to of the structure. Tremoved from the	ments and recommendations:  ne dam was "rebuilt" in 1990.  perform routine maintenance on the structure. Your goal is to maintain a grass cover across all aspects  the majority of the dam is grassed. The brush and small trees (less than 4") in diameter should be  primary spillway area to decrease the chances of roots entering the spillway system.
General common Per Mr. Wallace the Please continue to of the structure. Tremoved from the	ments and recommendations:  ne dam was "rebuilt" in 1990.  perform routine maintenance on the structure. Your goal is to maintain a grass cover across all aspects  the majority of the dam is grassed. The brush and small trees (less than 4") in diameter should be  primary spillway area to decrease the chances of roots entering the spillway system.
General common Per Mr. Wallace the Please continue to of the structure. Tremoved from the	ments and recommendations:  ne dam was "rebuilt" in 1990.  perform routine maintenance on the structure. Your goal is to maintain a grass cover across all aspects  the majority of the dam is grassed. The brush and small trees (less than 4") in diameter should be  primary spillway area to decrease the chances of roots entering the spillway system.
General common Per Mr. Wallace the Please continue to of the structure. Tremoved from the	ments and recommendations:  ne dam was "rebuilt" in 1990.  perform routine maintenance on the structure. Your goal is to maintain a grass cover across all aspects  the majority of the dam is grassed. The brush and small trees (less than 4") in diameter should be  primary spillway area to decrease the chances of roots entering the spillway system.
General common Per Mr. Wallace the Please continue to of the structure. Tremoved from the	ments and recommendations:  ne dam was "rebuilt" in 1990.  perform routine maintenance on the structure. Your goal is to maintain a grass cover across all aspects  the majority of the dam is grassed. The brush and small trees (less than 4") in diameter should be  primary spillway area to decrease the chances of roots entering the spillway system.
Per Mr. Wallace the Please continue to of the structure. The removed from the	ments and recommendations:  ne dam was "rebuilt" in 1990.  perform routine maintenance on the structure. Your goal is to maintain a grass cover across all aspects  the majority of the dam is grassed. The brush and small trees (less than 4") in diameter should be  primary spillway area to decrease the chances of roots entering the spillway system.

#### **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.

- 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 though 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.



# 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: <b>D</b> 3005 & Hazard Class SIGNIFICANT	B. Name of Dam: DUNCAN CREEK WCD DAM 7
C. Inspection Date (02/25/20 15) & Time: 11:33	D. Date of Last Inspection: (11 / 20 / 2012 _)
E. Location-County/City: LAURENS / CLINTON	F. EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT, DANNI HALLMAN	
H. Owner's Name: WHITTEN CENTER	
I. Contact Person (if different from above): DALE HAYES	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office (864) 938 - 3548
K. Dans Overagle on Contact Demonits made and decor	Other ()
K. Dam Owner's or Contact Person's mailing address:	
	<del></del>
Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional), State _	SC Zip Code _29325
Address 2 (optional)	SC Zip Code _29325 ving):
Address 2 (optional)	SC Zip Code _29325 ving):
Address 2 (optional)  City CLINTON , State, State	SC Zip Code _29325 ving):
Address 2 (optional)  City CLINTON , State  Section II (Dam Condition)  General Condition Assessment (Select one of the follow  a) Satisfactory  b) Fair  c) Poor   Section III (Dam Inspection Checklist)  A. Dam Crest	SC Zip Code _29325 ving):
Address 2 (optional)  City CLINTON , State  Section II (Dam Condition)  General Condition Assessment (Select one of the follow  a) Satisfactory  b) Fair  c) Poor   Section III (Dam Inspection Checklist)  A. Dam Crest  i. Vegetation (grass, trees weeds)?  Grass	SC Zip Code _29325 ving):
Address 2 (optional)  City CLINTON , State	SC Zip Code _29325 ving):

### Section III (Dam Inspection Checklist) continued

	s/briars along the waterline need to be removed before they grow any larger.
ii. Animal a	activity observed? Animal paths were evident
iii. Any ob	vious alterations or repairs made? No
iv. Erosion	observed on upstream slope? No
v. Settleme	ent or cracks visible in slope? There were several areas where settlement was evident. These areas should be monitor
closely to look for	r any changes that may be occurring. The majority of the settled areas have occurred in a vertical fashion.
C. Down Str	ream Slope
i. Vegetati	on (grass, trees weeds)?
ii. Animal a	activity observed? Animal paths were evident
iii. Any ob	vious alterations or repairs made? No
iv. Erosion	observed on down stream slope? No
v. Settleme	ent or cracks visible in slope? here were several areas where settlement was evident. These areas should be monito
closely to look for	r any changes that may be occurring.
vi. Toe drai	ins flowing? Right toe drain is flowing. The left toe drain pipe is broken. Investigate where the break in the pipe occurs. If, in ord
	n, you need to excavate any portion of the structure, please contact the Department first - you most likely need a repair permit to do this wo
	epage observed? If so, describe location, The soil was very soft and squishy near a couple feet above the toe on
	and any turbidity or color within the flow:  The recent rains make it difficult to determine if this was actual seepage
<b>D. Primary S</b> i. Any visib	le deterioration of structure? No
<b>D. Primary S</b> i. Any visib	Spillway
i. Any visib	Spillway le deterioration of structure? No
i. Any visib ii. Is there a	Spillway le deterioration of structure?  No  an obvious need to repair or replace trash rack?  No
i. Any visib ii. Is there a iii. Any noti iv. Is valve	Spillway le deterioration of structure?  an obvious need to repair or replace trash rack?  Iceable problems with debris?  Yes - debris needs to be cleaned out of the trash rack  or gate present?  Possibly saw a valve stem.
i. Any visib ii. Is there a iii. Any noti iv. Is valve	Spillway le deterioration of structure?  an obvious need to repair or replace trash rack?  Iceable problems with debris?  Yes - debris needs to be cleaned out of the trash rack  or gate present?  Possibly saw a valve stem.
i. Any visib ii. Is there a iii. Any noti iv. Is valve  E. Outlet Pi i. Any wate	In obvious need to repair or replace trash rack?  In obvious need to repair or replace trash rack?  In obvious need to repair or replace trash rack?  In or gate present?  In obvious need to repair or replace trash rack?  In obvious need to repair
i. Any visib ii. Is there a iii. Any noti iv. Is valve  E. Outlet Pi i. Any wate	Spillway   le deterioration of structure?   No   No   No
i. Any visib ii. Is there a iii. Any noti iv. Is valve  E. Outlet Pi i. Any wate ii. Describe	Spillway le deterioration of structure?  No  an obvious need to repair or replace trash rack?  Ceable problems with debris?  Yes - debris needs to be cleaned out of the trash rack  or gate present?  Possibly saw a valve stem.  Possibly flowing or leaking outside of the discharge pipe?  Pany deflection or damage observed to the pipe:  No  condition of outlet channel:  Clear
i. Any visib ii. Is there a iii. Any noti iv. Is valve  E. Outlet Pi i. Any wate ii. Describe iii. Visible of	le deterioration of structure?    No   No
i. Any visib  ii. Is there a  iii. Any noti  iv. Is valve  E. Outlet Pi i. Any wate  ii. Describe  iii. Visible of  F. Auxiliary i. Noticeabl	Spillway le deterioration of structure?  In obvious need to repair or replace trash rack?  In obvious need to be cleaned out of the trash rack?  In obvious need to be cleaned out of the trash rack?  In obvious need to be cleaned out of the trash rack?  In obvious need to be cleaned out of the trash rack?  In obvious need to be cleaned out of the trash rack?  In obvious need to be cleaned out of the trash rack?  In obvious need to be cleaned out of the trash rack?  In obvious need to be clean
i. Any visib  ii. Is there a  iii. Any noti  iv. Is valve  E. Outlet Pi i. Any wate  ii. Describe  iii. Visible co  F. Auxiliary i. Noticeabl  ii. Animal ac	Spillway le deterioration of structure?  In obvious need to repair or replace trash rack?  In obvious need to be cleaned out of the trash rack  In obvious need to be cleaned out of the trash rack  In obvious need to be cleaned out of the trash rack  In obvious need to be cleaned out of the trash rack  In obvious need to be cleaned out of the trash rack  In obvious need to be cleaned out of the trash rack  In obvious need to be cleaned out of the trash rack  In obvious need to be cleaned out of the trash rack  In obvious need to be cleaned out of the trash rack  In obvious need to be cleane

vi. If applicable, an	y visible leakage below concrete spillway?
	·
H. Downstream/Ha i. Any noticeable ch	zard Class Issues nanges immediately downstream of the dam that affects the hazard classification?
The hazard classification	on should be checked to determine if this should be a High hazard Dam due to I-26. Central Office
staff will look at the cla	
I. Emergency Action i. Emergency Action	on Plan (EAP) on Plan provided by owner?  No. A blank one is being mailed with this report.
ii. Does EAP conta	nins emergency alert notification plan? If so, when was it last updated?
iii Does FAP conta	ain specific actions to take if the dam has failed or is near failure?
Section IV (Con	
Section IV (Con	clusions) ts and recommendations:
Section IV (Con General comment Jason Keen attended t	clusions) ts and recommendations:
Section IV (Con General comment Jason Keen attended to Please remember that	clusions) ts and recommendations: the inspection.
Section IV (Con  General comment  Jason Keen attended to the Please remember that Closely monitor the data	clusions)  ts and recommendations: the inspection.  you should maintain a grass cover across all aspects of the structure.
Section IV (Con General comment Jason Keen attended to Please remember that Closely monitor the da Department immediate	clusions)  ts and recommendations: the inspection.  you should maintain a grass cover across all aspects of the structure.  m for any changes in the settlement that has occured and for possible seepage. Please contact the
Section IV (Con General comment Jason Keen attended to Please remember that Closely monitor the da Department immediate	clusions)  Its and recommendations: The inspection.  you should maintain a grass cover across all aspects of the structure.  Im for any changes in the settlement that has occured and for possible seepage. Please contact the ely if you notice any changes.  It is and recommendations:  It is an and recommendations:  It is an
Section IV (Con General comment Jason Keen attended to Please remember that Closely monitor the da Department immediate If, in order to fix the toe most likely need obtain	clusions)  Its and recommendations: The inspection.  You should maintain a grass cover across all aspects of the structure.  In for any changes in the settlement that has occured and for possible seepage. Please contact the ely if you notice any changes.
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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.

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- 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.

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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.

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- 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.

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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.

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DHEC 2604 (Rev 11/2011)

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

OMOTE PROTECT PROSPER	
Section I (Owner's Information)	
A. Dam Number: <b>D</b> 3008 & Hazard Class c2	B. Name of Dam: Beaverdam Warrior Creek WCD #4
C. Inspection Date (03/11/20 14) & Time: 10:35 AM	D. Date of Last Inspection: (01_/20/2011_)
E. Location-County/City:	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: BVRDAM-WARRIOR CK WCD	
I. Contact Person (if different from above): Sammy Waddell, Lisa G	Goode (NRCS), Harold Mcclintock (NRCS)
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
	Other (864_) 347 0453_
K. Dam Owner's or Contact Person's mailing address:	
Address 1 NRCS District Office, Attn: Harold McClintok, 104 Ashley Lane	·
Address 2 (optional)	
City Laurens , State	SC Zip Code <u>29630</u>
Section II (Dam Condition)	
	wing).
General Condition Assessment (Select one of the follow	
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? №	
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

	Jpstream Slope Vegetation (grass, trees weeds)? Mostly grass, negligible amount of weeds/briars
ii.	Animal activity observed? No
iii.	Any obvious alterations or repairs made? No
iv.	Erosion observed on upstream slope? Some at waters edge
٧.	Settlement or cracks visible in slope? No
	Oown Stream Slope Vegetation (grass, trees weeds)? Grass, some brisrs
ii.	Animal activity observed? No
iii.	Any obvious alterations or repairs made? No
iv.	Erosion observed on down stream slope? No
٧.	Settlement or cracks visible in slope? No
vi.	Toe drains flowing?
flo som	Any seepage observed? If so, describe location, wrate, and any turbidity or color within the flow:  The toe of the dam was soggy (to the left of the plunge pool).  The water did not appear to be flowing along the ground. There were puddles just downstream of the toe. This area was also soggy. Inspector unsure of the cause of this water. Please investigate.  Primary Spillway  Any visible deterioration of structure?  No
ii.	Is there an obvious need to repair or replace trash rack?
iii.	Any noticeable problems with debris? Debris is against the spillway structure (side closest to the dam)
iv.	Is valve or gate present?   Valve stem visible
	Outlet Pipe
i. /	Any water visibly flowing or leaking outside of the discharge pipe?
ii.	Describe any deflection or damage observed to the pipe:  None
iii.	Visible condition of outlet channel:  Mostly clear, tree debris across path downstream of outlet
	Auxiliary (Emergency) Spillway Noticeable obstructions to flow?
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
	2604 (Rev 11/2011)

i. Any noticeable changes immediately downstream of the dam that affects the hazard classification  Emergency Action Plan (EAP) i. Emergency Action Plan provided by owner?  No, the form was handed to Harold McClintock prior to the	
i. Emergency Action Plan provided by owner?  No, the form was handed to Harold McClintock prior to the inspection.	
of the inspection.	ne start
of the inspection.	
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?	
Dam appears to be well maintained. Please continue to perform routine maintenance of the structure. Ensure you performing routine inspections to look for potential problems/changes to the structure.	are
Please monitor the water on the toe of the dam to determine if there is a seep, standing water, or a toe drain system	n.
If the problem worsens, please contact the Department.	

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### **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.

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- 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 though 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.



# Section I (Owner's Information) A. Dam Number: D 3029 & Hazard Class C2 B. N

В	Name	οf	Dam:	CHARLIE'S	<b>CREEK</b>	NURSERY	DAM

C. Inspection Date	( <u>11/21/20 13</u> ) & Time: 9:57 AM	

D. Date of Last Inspection: (12/10/2010\_)

E. Location-County/City: ABBEVILLE	/ <u>IVA</u>
------------------------------------	--------------

F. EQC Regional Office: GREENWOOD

G. Inspector's Name:	STEPHANIE HACKETT, HANNAH VINSON
•	

H. Owner's Name: CHARLIE'S CREEK NURSERY

I. Contact Person (if different from above): DON BLACK

J. Dam Owner's or Contact Person's Phone Numbers:	Home ()	
	\— — —/	

Office (\_ \_ \_) \_ \_ - - \_ \_ \_ \_

Other (864\_) 617\_ - 6444\_

K	Dam	Owner's	or Con	tact Pers	son's m	ailing a	ddress
١.	Dani	OWITCH 3	OI COII	tact i ci	3011 3 111	annige	iddicss

Address 1 PO BOX 669		
Address 2 (optional)		
City IVA ,	State SC_	Zip Code _29655

# Section II (Dam Condition)

<b>General Condition</b>	Assessment	(Select one	of the	following):

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

# **Section III (Dam Inspection Checklist)**

### A. Dam Crest

i. Vegetation (grass, trees wee	Crest is a driveway to the office building. It is partially paved, partially sand/gravel.
ii. Animal activity observed?	None observed
iii. Any obvious alteration or re	pairs made? Not since the last inspection
iv. Erosion noticed on crest?	None observed
v. Any visible settlement, misal	lignment or cracks? Pavement had many cracks in it.

# Section III (Dam Inspection Checklist) continued

Area	Animal activity observed? Two areas of holes were found on the upstream slope. Area one was approximately 30 feet from the right side of the date.
	two is close to the left side of the dam. Both of these areas had several holes of varying sizes. They could be the result of animal activity.
III.	Any obvious alterations or repairs made? None observed
iv.	Erosion observed on upstream slope? Possible erosion observed adjacent to the water's edge (that or sloughing in other area
v. \$	Settlement or cracks visible in slope? The slope on the right side of the dam face is different than on the left side. Closely monitor
	s of the dam to determine if settling or sloughing is occuring on the upstream face of the dam.
	own Stream Slope /egetation (grass, trees weeds)? Vegetative cover. A couple of trees adjacent to the groin on the right hand side of the dam.
ii.	Animal activity observed? None observed
iii.	Any obvious alterations or repairs made? None observed
iv.	Erosion observed on down stream slope? None observed
٧. \$	Settlement or cracks visible in slope? None observed
vi.	Toe drains flowing? Toe drains were capped in the past. See past inspection reports.
flov small <b>D. P</b> l	Any seepage observed? If so, describe location, variety and any turbidity or color within the flow:  wet areas. No flow was observed.  rimary Spillway  ny visible deterioration of structure?  Removed in the past.  Approximately 2 feet above the toe drains is a horizontal strip running to just above the toe drains towards the left side of the dam that had severable to the side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains is a horizontal strip running to just above the toe drains is a horizontal strip running to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam that had severable to just above the toe drains towards the left side of the dam
	s there an obvious need to repair or replace trash rack?
	Any noticeable problems with debris?
	Any noticeable problems with debris?
	Any noticeable problems with debris?  Is valve or gate present?
iv.	
iv. <b>E. C</b> i. A	Solve or gate present?  Dutlet Pipe
iv.	Is valve or gate present?  Putlet Pipe  ny water visibly flowing or leaking outside of the discharge pipe?  Outlet pipe was removed in the past.
iv.  E. C i. A ii. [	Dutlet Pipe In y water visibly flowing or leaking outside of the discharge pipe?  Oescribe any deflection or damage observed to the pipe:  Visible condition of outlet channel:  Describe any deflection or damage observed to the pipe:
iv.  E. C i. A ii. [	Dutlet Pipe In y water visibly flowing or leaking outside of the discharge pipe?  Oescribe any deflection or damage observed to the pipe:  Visible condition of outlet channel:  Describe any deflection or damage observed to the pipe:
iv.  E. C i. A ii. [ iii. ' i. N emerg ii. A	Is valve or gate present?  Outlet Pipe  ny water visibly flowing or leaking outside of the discharge pipe?  Oescribe any deflection or damage observed to the pipe:  Visible condition of outlet channel:  Uxiliary (Emergency) Spillway  oticeable obstructions to flow?  Left emergency spillway serves as primary spillway. There are some trees beginning to grow alon gency spillway ditch. A hole forming to right of where emergency spillway ditch goes under driveway (Nursery Valley Drive)
iv.  E. C i. A ii. [ iii. ' iii. ' iii. A	Dutlet Pipe In y water visibly flowing or leaking outside of the discharge pipe?  Outlet pipe was removed in the past.  Describe any deflection or damage observed to the pipe:  Visible condition of outlet channel:  Duxiliary (Emergency) Spillway oticeable obstructions to flow?  Left emergency spillway serves as primary spillway. There are some trees beginning to grow along gency spillway ditch. A hole forming to right of where emergency spillway ditch goes under driveway (Nursery Valley Drive)  Inimal activity observed?  None observed

vi. If applicable, ar	ny visible leakage below concret	te spillway?
	azard Class Issues changes immediately downstrear	m of the dam that affects the hazard classification? No
. Emergency Action i. Emergency Action inspection.		No. Form 2606 left with a person the office at the end of the
ii. Does EAP conta	ains emergency alert notification	n plan? If so, when was it last updated?
D	toin annaific actions to take if the	e dam has failed or is near failure?
Section IV (Cor	nclusions)  and recommendations:	
Section IV (Cor	nclusions)  and recommendations:	2010. Inspectors talked to Jake at the end of the inspection
Section IV (Cor General commer	nclusions)  Its and recommendations:  The upstream slope were also noted in the commendation in the commen	
Section IV (Cor General commer The holes noted in the and he noted they had	nclusions)  Ints and recommendations:  The upstream slope were also noted in a control of the course of these has a control of the course of t	2010. Inspectors talked to Jake at the end of the inspection
Section IV (Cor General commer The holes noted in the and he noted they had these two areas and t	nclusions)  Ints and recommendations:  The upstream slope were also noted in the cause of these has been perform maintenance to remedy	2010. Inspectors talked to Jake at the end of the inspection noles. You need to determine what is causing the problems in
Section IV (Cor General commer The holes noted in the and he noted they had these two areas and t	nclusions)  Its and recommendations:  The upstream slope were also noted in a contract of the course of these has the perform maintenance to remedy the course of the cour	2010. Inspectors talked to Jake at the end of the inspection noles. You need to determine what is causing the problems in the situation. Please remember that any non-routine
Section IV (Cor General commer The holes noted in the and he noted they had these two areas and t maintenance may nee have any questions al	nclusions)  Ints and recommendations:  The upstream slope were also noted in a company of the co	2010. Inspectors talked to Jake at the end of the inspection noles. You need to determine what is causing the problems in the situation. Please remember that any non-routine prior to fixing the situation. Please contact the Department if you
General commer The holes noted in the and he noted they had these two areas and to maintenance may need have any questions all Closely monitor the way and the second seco	nclusions)  Ints and recommendations:  In upstream slope were also noted in a contract of the cause of these has the perform maintenance to remedy the contract of the cause of the dam product whether the work you are wanting the tareas found above the toe drains of the contract of the cause of these has the cause of	2010. Inspectors talked to Jake at the end of the inspection noles. You need to determine what is causing the problems in the situation. Please remember that any non-routine prior to fixing the situation. Please contact the Department if you not to perform needs a permit from the Department.
General commer The holes noted in the and he noted they had these two areas and to maintenance may need have any questions all Closely monitor the way and the second seco	nclusions)  Ints and recommendations:  In upstream slope were also noted in a contract of the cause of these has the perform maintenance to remedy the contract of the cause of the dam product whether the work you are wanting the tareas found above the toe drains of the contract of the cause of these has the cause of	2010. Inspectors talked to Jake at the end of the inspection noles. You need to determine what is causing the problems in the situation. Please remember that any non-routine prior to fixing the situation. Please contact the Department if you not to perform needs a permit from the Department.
Section IV (Cor General commer The holes noted in the and he noted they had these two areas and t maintenance may nee have any questions all Closely monitor the w	nclusions)  Ints and recommendations:  In upstream slope were also noted in a contract of the cause of these has the perform maintenance to remedy the contract of the cause of the dam product whether the work you are wanting the tareas found above the toe drains of the contract of the cause of these has the cause of	2010. Inspectors talked to Jake at the end of the inspection noles. You need to determine what is causing the problems in the situation. Please remember that any non-routine prior to fixing the situation. Please contact the Department if you not the pack slope of the dam. Please contact the Department.

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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.

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OMOTE PROTECT PROSPER	
Section I (Owner's Information)	
A. Dam Number: <b>D</b> 3037 & Hazard Class C2	B. Name of Dam: Powell Pond Dam
C. Inspection Date (12/06/20 12) & Time: 9:43 AM	D. Date of Last Inspection: (6 _/15 /_ 2010_)
E. Location-County/City: Abbeville / Abbeville	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Carter D Lawson	
I. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K. Dom Owner's or Centest Person's mailing address:	Other ( <u>864</u> ) <u>378</u> <u>7072</u> _
K. Dam Owner's or Contact Person's mailing address:	
Address 2 (optional)	
City Abbeville , State _	SC Zip Code _29620
Section II (Dam Condition)	
General Condition Assessment (Select one of the follow	ving):
a) Satisfactory b) Fair c) Poor	d) Unsatisfactory e) Not Rated
	d) Orisalistaciony e) Not Nated
Section III (Dam Inspection Checklist)	
A. Dam Crest     i. Vegetation (grass, trees weeds)? Grass, drivable	
ii. Animal activity observed? No	<del></del>
ii. Animal activity observed? No	
iii. Any obvious alteration or repairs made? No	
iii. Any obvious alteration or repairs made? No	

# Section III (Dam Inspection Checklist) continued **B. Upstream Slope** i. Vegetation (grass, trees weeds)? grass/weeds/small trees ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? v. Settlement or cracks visible in slope? Maybe some settlement C. Down Stream Slope i. Vegetation (grass, trees weeds)? briars/weeds/trees/ Difficult to inspect due to the abundance of unwanted vegetation. ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? v. Settlement or cracks visible in slope? Narrow crack running down the backslope of the dam. vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, I didn't find any but it was difficult to inspect the back slope of the dam. flow rate, and any turbidity or color within the flow: D. Primary Spillway i. Any visible deterioration of 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? Was unable to find the discharge pipe due to the 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? iii. Any noticeable deterioration in the approach or discharge channel? iv. Any visible deterioration of structure's crest?

vi. If applicable, a	ny visible leakage below concrete spillway?
	azard Class Issues changes immediately downstream of the dam that affects the hazard classification? No
. Emergency Acti i. Emergency Acti	on Plan (EAP) on Plan provided by owner?
ii. Does EAP cont	ains emergency alert notification plan? If so, when was it last updated?
iii. Does EAP con	tain specific actions to take if the dam has failed or is near failure?
Section IV (Coi	·
Section IV (Cor	nclusions)
Section IV (Cor General comment The dam was difficult	nclusions) nts and recommendations:
Section IV (Cor General comment The dam was difficult your goal should be to	nclusions)  Ints and recommendations:  It is inspect due to the amount of vegetation along the backslope and toe of the dam. As a reminder,
Section IV (Cor General comment The dam was difficult your goal should be to on a regular basis. If	nts and recommendations: to inspect due to the amount of vegetation along the backslope and toe of the dam. As a reminder, maintain a grass cover over all aspects of the dam. Please continue to work on bush hogging the dar
Section IV (Cor General comment The dam was difficult your goal should be to on a regular basis. If from the Department.	nts and recommendations: to inspect due to the amount of vegetation along the backslope and toe of the dam. As a reminder, maintain a grass cover over all aspects of the dam. Please continue to work on bush hogging the dar a bush hog is unable to perform the work due to the size of the vegetation, a permit may be needed
Section IV (Cor General comment The dam was difficult your goal should be to on a regular basis. If from the Department. Also, in 2010 the De	nts and recommendations: to inspect due to the amount of vegetation along the backslope and toe of the dam. As a reminder, or maintain a grass cover over all aspects of the dam. Please continue to work on bush hogging the dar a bush hog is unable to perform the work due to the size of the vegetation, a permit may be needed.  If this is the case, please contact me.
Section IV (Cor General commentary our goal should be to on a regular basis. If from the Department. Also, in 2010 the Department. If does in	nts and recommendations: to inspect due to the amount of vegetation along the backslope and toe of the dam. As a reminder, maintain a grass cover over all aspects of the dam. Please continue to work on bush hogging the dar a bush hog is unable to perform the work due to the size of the vegetation, a permit may be needed If this is the case, please contact me.  partment was notified of a cracked conduit. You were instructed to obtain a repair permit from the
Section IV (Cor General commentary our goal should be to on a regular basis. If from the Department. Also, in 2010 the Department. If does in	nts and recommendations: to inspect due to the amount of vegetation along the backslope and toe of the dam. As a reminder, maintain a grass cover over all aspects of the dam. Please continue to work on bush hogging the dar a bush hog is unable to perform the work due to the size of the vegetation, a permit may be needed If this is the case, please contact me.  partment was notified of a cracked conduit. You were instructed to obtain a repair permit from the
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- 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.

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- 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 though 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.



# 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: <b>D</b> <u>4003</u> & Hazard Class <u>C2</u>	B. Name of Dam: Boyds Mill Pond Dam
C. Inspection Date (12/04/20 12) & Time: 0930	D. Date of Last Inspection: (12/14/2009_)
E. Location-County/City:/	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Northbrook Power Management	
I. Contact Person (if different from above): Jeff McGraw	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other (828_) 289 6675
K. Dam Owner's or Contact Person's mailing address: Address 1 14550 N Frank Lloyd Wright #210	
Address 2 (optional)	
	Z Zip Code <u>85260</u>
Section II (Dam Condition)	
General Condition Assessment (Select one of the following	ng):
a) Satisfactory b) Fair c) Poor	d) Unsatisfactory e) Not Rated
Section III (Dam Inspection Checklist)	
A. Dam Crest     i. Vegetation (grass, trees weeds)? Clear of debris	
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	
DHEC 2604 (Rev 11/2011)	

# Section III (Dam Inspection Checklist) continued **B.** Upstream Slope i. Vegetation (grass, trees weeds)? "upstream slope" is the pond. Minimal amount of debris against the spillway. ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? v. Settlement or cracks visible in slope? No. C. Down Stream Slope i. Vegetation (grass, trees weeds)? Concrete spillway = downstream slope ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? v. Settlement or cracks visible in slope? Couldn't inspect. vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, Two seepage points observed at the left abutment (along the wall). flow rate, and any turbidity or color within the flow: Both places had a small trickle of water appears to be clear water. D. Primary Spillway i. Any visible deterioration of structure? ii. Is there an obvious need to repair or replace trash rack? iii. Any noticeable problems with debris? Small amount of debris on the trash rack. Please have this cleared off. iv. Is valve or gate present? Yes. E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? ii. Describe any deflection or damage observed to the pipe: iii. Visible condition of outlet channel: Outlet channel has rocks with some trees in it. Outlet channel should be clear so that water has an unobstructed path. F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? There is not an emergency spillway.

# ii. Animal activity observed?

iii. Any noticeable deterioration in the approach or discharge channel?

iv. Any visible deterioration of structure's crest?

v. II applicable, ally	observed exposure of rebar reinforcement?
vi. If applicable, an	y visible leakage below concrete spillway?
H. Downstream/Ha i. Any noticeable cl	zard Class Issues nanges immediately downstream of the dam that affects the hazard classification?  No.
. Emergency Action i. Emergency Action	n Plan (EAP) n Plan provided by owner?  Yes.
ii. Does EAP conta	ins emergency alert notification plan? If so, when was it last updated? Yes. 12/31/1995
iii. Does EAP conta	ain specific actions to take if the dam has failed or is near failure? No.
General commen	clusions) ts and recommendations:
General commen	clusions)  ts and recommendations:  adgates have been replaced in the past four years.
The trash rack and hea	clusions) ts and recommendations:
General commentary The trash rack and head Continue to monitor the Continue to inspect the	clusions)  Its and recommendations:  adgates have been replaced in the past four years.  The seepage closely and contact us if there are any changes to the amount of color of the flow.
General commen The trash rack and hea Continue to monitor the Continue to inspect the	clusions)  Its and recommendations:  adgates have been replaced in the past four years.  The seepage closely and contact us if there are any changes to the amount of color of the flow.  The entire structure on a regular basis.
General commen The trash rack and hea Continue to monitor the Continue to inspect the	clusions)  Its and recommendations:  adgates have been replaced in the past four years.  The seepage closely and contact us if there are any changes to the amount of color of the flow.  The entire structure on a regular basis.
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### **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.
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- 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 though 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.



R.72-1 through R.72-9 **Section I (Owner's Information)** A. Dam Number: **D** 4035 & Hazard Class C2 B. Name of Dam: Walkers Pond Dam C. Inspection Date (01/08/2012) & Time: 10:40 D. Date of Last Inspection: (11 /09 /2010 ) E. Location-County/City: Abbeville / Abbeville F. EQC Regional Office: Greenwood G. Inspector's Name: Stephanie Hackett H. Owner's Name: Bill Stoll Jr I. Contact Person (if different from above):\_\_\_\_\_ Home (\_ \_ \_) \_ \_ - - \_ \_ \_ J. Dam Owner's or Contact Person's Phone Numbers: Office (864) 446 - 2121 Other (864) 378 - 8084 K. Dam Owner's or Contact Person's mailing address: Address 1 441 Cold Springs Road Address 2 (optional)\_\_\_\_\_ State <u>SC</u> Zip Code <u>29620</u> - \_ \_ \_ City Abbeville **Section II (Dam Condition)** General Condition Assessment (Select one of the following): b) Fair c) Poor d) Unsatisfactory e) Not Rated a) Satisfactory **Section III (Dam Inspection Checklist)** A. Dam Crest i. Vegetation (grass, trees weeds)? Currently a dirt road void of vegetation. ii. Animal activity observed? No. iii. Any obvious alteration or repairs made? No.

DHEC 2604 (Rev 11/2011)

iv. Erosion noticed on crest?

v. Any visible settlement, misalignment or cracks? No.

# Section III (Dam Inspection Checklist) continued

••	Vegetation (grass, trees weeds)? Area adjacent to crest is void of vegetation. There is some vegetation adjacent to the water.
ii.	Animal activity observed? Yes. Series of small burrows northeast of the siphon system.
iii.	Any obvious alterations or repairs made? No.
iv.	Erosion observed on upstream slope? One area adjacent to the water northeast of the siphon system.
	Settlement or cracks visible in slope? No.
	Oown Stream Slope Vegetation (grass, trees weeds)? Grass with some bare areas
ii.	Animal activity observed? No.
iii.	Any obvious alterations or repairs made? No.
iv.	Erosion observed on down stream slope? No.
٧.	Settlement or cracks visible in slope? No.
vi.	Toe drains flowing? N/A
	Any seepage observed? If so, describe location, wrate, and any turbidity or color within the flow:  Wet area along the toe of the dam in the vicinity of the siphon system Could be the result of rain in this shady area. Monitor this area.
ii.	Is there an obvious need to repair or replace trash rack?
iii.	Any noticeable problems with debris?
ĺV.	Is valve or gate present? Gate valve has been installed on the discharge end of the siphon system.
	Outlet Pipe
i. <i>F</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: Narrow
	Ivanow
	uxiliary (Emergency) Spillway loticeable obstructions to flow?  Pipes have deteriorated.
ii. <i>f</i>	Animal activity observed? No.
iii.	Any noticeable deterioration in the approach or discharge channel? No.
	Any noticeable deterioration in the approach or discharge channel?  No.  Any visible deterioration of structure's crest?  No.

d Class Issues ges immediately downstream of the dam that affects the hazard classification?	
ges immediately downstream of the dam that affects the hazard classification?	
	No.
lan (EAP)	
an provided by owner?  No. Handed to owner during the inspection and asked him	
emergency alert notification plan? If so, when was it last updated?	
specific actions to take if the dam has failed or is near failure?	
grass cover over all portions of the structure.	
ne erosion on the front slope to ensure that it is not changing in size.	
ne erosion on the front slope to ensure that it is not changing in size.  eriorate the structure.	
r	no. Handed to owner during the inspection and asked him emergency alert notification plan? If so, when was it last updated?  pecific actions to take if the dam has failed or is near failure?  sions)  nd recommendations:

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### **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.

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# Section I (Owner's Information):

- A) Dam Number; Enter the Dam's inventory number.
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- 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.
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# 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.



Section I (Owner's Information)	
A. Dam Number: <b>D</b> <u>4038</u> & Hazard Class <u>Significant</u> B. Name of I	Dam: Bailey Dam
C. Inspection Date (02/13/20 15) & Time: 10:30 AM D. Date of La	ast Inspection: (02/09/2012_)
E. Location-County/City: Laurens / Clinton F. EQC Regi	ional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	·
H. Owner's Name: Dixon Land Company, L.P.	
I. Contact Person (if different from above): Norman Dixon	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ( <u>864</u> ) <u>833</u> - <u>2099</u>
IX Dans Ourselle en Contact Demonits de Wester House	Other (404_) 2735433
K. Dam Owner's or Contact Person's mailing address:	
Address 1 16 Peachtree Street	
Address 2 (optional)	
City Clinton , State <u>SC</u> Zip C	Code <u>29325</u>
City _Clinton, State _SC Zip (  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfaction Section III (Dam Inspection Checklist)	
Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactory Section III (Dam Inspection Checklist)	
Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactory	
Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactory  Section III (Dam Inspection Checklist)  A. Dam Crest	
Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactors  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)?  Grass, driveable	
Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactors  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Grass, driveable  ii. Animal activity observed?	
Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory	

# Section III (Dam Inspection Checklist) continued **B.** Upstream Slope i. Vegetation (grass, trees weeds)? Grass, tiny briars ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? Erosion along bank v. Settlement or cracks visible in slope? No C. Down Stream Slope i. Vegetation (grass, trees weeds)? Grass, small amount of brush and debris ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? v. Settlement or cracks visible in slope? Down stream slope appears to be uneven vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, Yes By right groin at toe, not flowing, water was frozen at the time of the flow rate, and any turbidity or color within the flow: inspection, water appeared to consist of sediment D. Primary Spillway i. Any visible deterioration of 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? Stem is visible E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? ii. Describe any deflection or damage observed to the pipe: None iii. Visible condition of outlet channel: Mostly clear F. Auxiliary (Emergency) Spillway $i. \ \ Noticeable \ \ obstructions \ to \ flow? \\ \ \ \ _{Right \ Emergency \ Spillway \ (RES) \ - \ there \ is \ debris \ piled \ up \ \underline{\ on \ the \ downstream \ side \ of \ the \ dam}$ blocking the path of water in the RES if it was to be used ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? There are ruts in the approach channel from iv. Any visible deterioration of structure's crest?

H. Downstream/Hazard Cla i. Any noticeable changes i	ass Issues mmediately downstream of the dam that affects the hazard classification? No
. Emergency Action Plan ( i. Emergency Action Plan p	
ii. Does EAP contains eme	rgency alert notification plan? If so, when was it last updated? Yes, 2/12/15
iii. Does EAP contain speci	ific actions to take if the dam has failed or is near failure?
· · · · · · · · · · · · · · · · · · ·	ailey Dixon spoke with the inspector prior to and after the inspection
Please continue to maintain a gr	rass cover on this dam.
	rass cover on this dam.  at was discovered. Please call the Department if you notice any changes to this area
	at was discovered. Please call the Department if you notice any changes to this area
Closely monitor the seepage that (color of seepage, amount of flo	at was discovered. Please call the Department if you notice any changes to this area
Closely monitor the seepage that (color of seepage, amount of flo	at was discovered. Please call the Department if you notice any changes to this area w, etc).  bove - fix any erosion as it occurs to prevent further damage, contact the Department if you
Closely monitor the seepage that (color of seepage, amount of flow Monitor any deficiencies listed a	at was discovered. Please call the Department if you notice any changes to this area w, etc).  bove - fix any erosion as it occurs to prevent further damage, contact the Department if you
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# 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.



Section I (Owner's Information)	
A. Dam Number: <b>D</b> 4058 & Hazard Class Significant	B. Name of Dam: Creekside East Pond Dam
C. Inspection Date (01/07/20 15) & Time: 09:00 AM	D. Date of Last Inspection: (01/19/2012_)
E. Location-County/City: Greenwood / Greenwood	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Creekside Homeowners Association	
I. Contact Person (if different from above): Lary Davis	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other ( <u>864</u> _) <u>337</u> <u>6304</u> _
Address 1 106 Barrington Court	
Address 2 (optional)	<del></del>
City Greenwood , State	SC Zip Code _29649
Section II (Dam Condition)	
General Condition Assessment (Select one of the follow	wing):
a) Satisfactory b) Fair c) Poor	d) Unsatisfactory e) Not Rated
Section III (Dam Inspection Checklist)	
A. Dam Crest i. Vegetation (grass, trees weeds)? Asphalt road with grass shoulders	
ii. Animal activity observed? №	
iii. Any obvious alteration or repairs made? №	
iv. Erosion noticed on crest? No	
v. Any visible settlement, misalignment or cracks? Cracks in	n asphalt perpendicular and parallel to the crest of the dam
DHEC 2604 (Rev 11/2011)	

# Section III (Dam Inspection Checklist) continued

i. Vegetation (grass, trees weeds)? Grass, a tree is growing in the northeast corner of the pond along the front slope	
ii. Animal activity observed? No	
iii. Any obvious alterations or repairs made? No	
iv. Erosion observed on upstream slope? Yes - along the intersection of the water and the front slope	
v. Settlement or cracks visible in slope? Settlement on the right corner of the front slope (possibly where trees have	
been removed in the past)	
Down Stream Slope     i. Vegetation (grass, trees weeds)?  Grass, weeds, trees, briars	
Have started cleaning off, continue removing all the way down the backslope of the dam including outlet area	
ii. Animal activity observed? Yes	
iii. Any obvious alterations or repairs made? The owners of the structure have been working on removing excess vege	etation
iv. Erosion observed on down stream slope? No	
v. Settlement or cracks visible in slope? No	
vi. Toe drains flowing? N/A	
vii. Any seepage observed? If so, describe location, Yes. There were several wet areas along the right groin, the too	
flow rate, and any turbidity or color within the flow: right of the primary outlet, beyond the toe on the right side of the	e dam, and
along the toe on the left side of the primary outlet. Water was clearish to muddy. Inspector did not see flowing water - puddles, and soggy are	as.
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? Yes	
The value of gate processing	
E. Outlet Pipe	
i. Any water visibly flowing or leaking outside of the discharge pipe? Water was flowing out of the outlet pipe.	
Inspector could not get close enough to view close to the pipe. There is a large amount of erosion on the face of the dam immediately behind to	the pipe.
ii. Describe any deflection or damage observed to the pipe:  The top half of the pipe is bent back town	ards the
dam. Inspector could not get close enough to see.	
iii. Visible condition of outlet channel: Water apepars to be flowing away from the structure. Ensure the water has a clear	path out o
the area.	
F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow?	
ii. Animal activity observed?	
iii. Any noticeable deterioration in the approach or discharge channel?	
iv. Any visible deterioration of structure's crest?	
C 2604 (Rev 11/2011)	

vi. If applicable,	any visible leakage below concrete spillway?
	Hazard Class Issues e changes immediately downstream of the dam that affects the hazard classification?
	ction Plan (EAP) ction Plan provided by owner? No
ii. Does EAP co	ntains emergency alert notification plan? If so, when was it last updated?
B EAB	ontain specific actions to take if the dam has failed or is near failure?
Section IV (Co	·
Section IV (Co General comm A blank EAP and N	onclusions) ents and recommendations:
Section IV (Co General comm A blank EAP and N Please continue to	onclusions)  ents and recommendations:  lotification of Ownership Change form was left with David Crotts at the time of the inspection.
Section IV (Co General comm A blank EAP and N Please continue to After removal of ve	ents and recommendations:  Iotification of Ownership Change form was left with David Crotts at the time of the inspection.  remove the excess vegetation from the slopes of the dam and in the area of the discharge pipe.
Section IV (Co General comm A blank EAP and N Please continue to After removal of ve Closely monitor the	ents and recommendations:  lotification of Ownership Change form was left with David Crotts at the time of the inspection.  remove the excess vegetation from the slopes of the dam and in the area of the discharge pipe.  getation, you will need to ensure that the structure has a grass cover.
Section IV (Co General comm A blank EAP and N Please continue to After removal of ve Closely monitor the the color of the see	ents and recommendations:  Interpretation of Ownership Change form was left with David Crotts at the time of the inspection.  Interpretation of Ownership Change form was left with David Crotts at the time of the inspection.  In the area of the discharge pipe.  In the getation, you will need to ensure that the structure has a grass cover.  In the seepage that has been found on the dam. Contact the Department if the amount of seepage changes
Section IV (Co General comm A blank EAP and N Please continue to After removal of ver Closely monitor the the color of the see Monitor the erosion	ents and recommendations:  lotification of Ownership Change form was left with David Crotts at the time of the inspection.  remove the excess vegetation from the slopes of the dam and in the area of the discharge pipe.  getation, you will need to ensure that the structure has a grass cover.  e seepage that has been found on the dam. Contact the Department if the amount of seepage changes spage, or you start seeing actual flowing seepage.
Section IV (Co General comm A blank EAP and N Please continue to After removal of ver Closely monitor the the color of the see Monitor the erosion	ents and recommendations: Itotification of Ownership Change form was left with David Crotts at the time of the inspection.  Iterative the excess vegetation from the slopes of the dam and in the area of the discharge pipe.  It getation, you will need to ensure that the structure has a grass cover.  It is seepage that has been found on the dam. Contact the Department if the amount of seepage changes apage, or you start seeing actual flowing seepage.  It that has occured on the down stream slope in the vicinity of the outlet discharge pipe. This area may
Section IV (Conservation of the seed to be repaired	ents and recommendations: Itotification of Ownership Change form was left with David Crotts at the time of the inspection.  Iterative the excess vegetation from the slopes of the dam and in the area of the discharge pipe.  It getation, you will need to ensure that the structure has a grass cover.  It is seepage that has been found on the dam. Contact the Department if the amount of seepage changes apage, or you start seeing actual flowing seepage.  It that has occured on the down stream slope in the vicinity of the outlet discharge pipe. This area may

## **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.

### **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.

- 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 though 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.



Section I (Owner's Information)	
A. Dam Number: <b>D</b> <u>4059</u> & Hazard Class <u>Significant</u> B. Name of	f Dam: Oakbrook Memorial Dam
C. Inspection Date (01/07/20 15) & Time: 10:05 D. Date of	Last Inspection: (01/19/2012_)
E. Location-County/City: Greenwood / Hodges F. EQC Re	egional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: OAKBROOK MEMORIAL PARK INC	
I. Contact Person (if different from above): Denise Vianello	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office (864) 229- 1559
K. Dam Owner's or Contact Person's mailing address:	Other ()
K. Dam Owner's or Contact Person's mailing address:	
Address 1 3007 Hwy 25 N	
Address 2 (optional)	o Code <u>29653</u>
Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional)	o Code _29653
Address 2 (optional)  City Hodges , State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor d) Unsatisfactory	o Code _29653
Address 2 (optional)  City Hodges , State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactory III (Dam Inspection Checklist)  A. Dam Crest	o Code _29653
Address 2 (optional)  City Hodges	o Code _29653
Address 2 (optional)  City Hodges	o Code _29653

# Section III (Dam Inspection Checklist) continued

ii. Animal activity observed?    No   No   No   No   No   No   No   N	i. Vegetation (grass, trees weeds)? Grass, a row of trees, bare ground around each tree	
iv. Erosion observed on upstream slope?  v. Settlement or cracks visible in slope?  iv. Down Stream Slope  i. Vegetation (grass, trees weeds)?  iii. Animal activity observed?  iii. Any obvious alterations or repairs made?  v. Erosion observed on down stream slope?  v. Settlement or cracks visible in slope?  v. Settlement or cracks visible flow.  v. Perovation slope areas, the ground was squishly, but north of the primary outlet.  v. Perimary Spillway  i. Any visible deterioration of structure?  v. Settlement or cracks visible flow.  v. Settlement or determine visible flow.  v. Settlement of the bottom layer of trees  v. Several sepage areas just inside the right groun. There was flow and the right ground was squishly, but in set primary outlet.  None. There is crosion surrounding observed to be flowing away from the discharge area. Determine where the slockage is and unblock the channel.  Auxiliary (Emergency) Spillway  iii. Nollocable deterioration of structure's crest?  v. N	ii. Animal activity observed? №	
v. Settlement or cracks visible in slope?  i. Vegetation (grass, trees weeds)?  iii. Animal activity observed?  iii. Any obvious alterations or repairs made?  iv. Erosion observed on down stream slope?  v. Settlement or cracks visible in slope?  v. Settlement or cracks visible flowing repairs made?  v. Settlement or cracks visible flowing speakers in slope?  v. Settlement or cracks visible flowing speakers in slope?  v. Settlement or cracks visible flowing speakers in slope.  ii. Is shere an obvious need to repair or replace trash rack?  v. Settlement or dealers in slope.  iii. Any noticeable problems with debris?  v. Settlement or dealers in slope.  v. Settlement or trees eases, the ground was squishy.  void primary speakers areas, plant in slope right in slope right in slope areas, plant in slope right in slope areas, plant in slope right in slope right in slope areas, plant in slope right in slope areas, plant in slope right in slope right i	iii. Any obvious alterations or repairs made? No	
ii. Animal activity observed?  iii. Animal activity observed?  iii. Animal activity observed?  iii. Animal activity observed?  iii. Any obvious alterations or repairs made?  iv. Erosion observed on down stream slope?  iv. Erosion observed on down stream slope?  iv. Settlement or cracks visible in slope?  iv. Erosion observed on down stream slope?  iv. Toe drains flowing?  NA  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  water pooling in these areas, the ground was squishly, out there was not visible flow. The ground was slovery squishly just north of the primary outlet.  D. Primary Spillway  i. Any visible deterioration of structure?  ii. Is there an obvious need to repair or replace trash rack?  iii. Is valve or gate present?  iv. Is valve or gate present?  iii. Visible condition of outlet channel:  where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  where the outlet pipe e	iv. Erosion observed on upstream slope? Yes - along the waters edge	
ii. Animal activity observed?  iii. Any obvious alterations or repairs made?  iv. Erosion observed on down stream slope?  v. Settlement or cracks visible in slope?  v. Settlement or cracks visible in slope?  vi. Toe drains flowing?  N/A  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  vi. Toe drains flowing?  N/A  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  vi. Toe drains flowing?  N/A  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  vi. Toe drains flowing?  N/A  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  vi. Toe drains flowing?  N/A  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  vi. Primary Spillway  i. Any visible deterioration of structure?  No  iii. Is there an obvious need to repair or replace trash rack?  ves - debris (pine needles) needs to be cleaned off of the trash rack  iv. Is valve or gate present?  ves  E. Outlet Pipe  i. Any water visibly flowing or leaking outside of the discharge pipe?  ii. Visible condition of outlet channel:  vhere the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  veater does not appear to be flowing away from the discharge area. Determine where the obckage is and unblock the channel:  Valer does not appear to be flowing away from the discharge area. Determine where the obckage is and unblock the channel:  Valer does not appear to be flowing away from the discharge area. Determine where the obckage is and unblock the channel:  Valer does not appear to be flowing away from the discharge area. Determine where the obckage is and unblock the channel:  Valer does not appear to be flowing away from the discharge area. Determine where the obckage is and unblock the channel:  Valer does not ap	v. Settlement or cracks visible in slope? No	
iii. Any obvious alterations or repairs made?  iv. Erosion observed on down stream slope?  v. Settlement or cracks visible in slope?  Ves-depressions just west of the bottom layer of trees  vi. Toe drains flowing?  No  vii. Any seepage observed? If so, describe location, Yes. Several seepage areas just inside the right groin. There was determined any turbidity or color within the flow:  water pooling in these areas, the ground was aslo very squistry just north of the primary outlet.  Definancy Spillway  i. Any visible deterioration of structure?  No  iii. Is there an obvious need to repair or replace trash rack?  No  iii. Any noticeable problems with debris?  Yes-debris (pine needles) needs to be cleaned off of the trash rack  iv. Is valve or gate present?  Yes  E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe?  No  iii. Describe any deflection or damage observed to the pipe:  None. There is erosion surrounding where the outlet pipe exiting ground. Monitor and correct as needed to prevent turther damage.  Iii. Visible condition of outlet channel.  Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow?  No  No  No  No  No  No  No  No  No  N	C. Down Stream Slope i. Vegetation (grass, trees weeds)? two rows of trees near crest, pine needles on the upper portion and grass	s on the lower portion
iv. Erosion observed on down stream slope?  v. Settlement or cracks visible in slope?  visible flow rate, and any turbidity or color within the flow:  water pooling in these areas, the ground was squishy,  ut there was not visible flow. The ground was slov very squishy just north of the primary outlet.  Definary Spillway  i. Any visible deterioration of structure?  ii. Is there an obvious need to repair or replace trash rack?  iv. Is valve or gate present?  ves  E. Outlet Pipe  i. Any water visibly flowing or leaking outside of the discharge pipe?  iii. Describe any deflection or damage observed to the pipe:  None. There is erosion surrounding  where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  Water does not appear to be flowing away from the discharge area. Determine where the olockage is and unblock the channel.  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  There is a pump house in the left emergency spillway on the upstream slope.  iii. Any noticeable deterioration in the approach or discharge channel?  No  No  No  No  No  No  No  No  No  N	ii. Animal activity observed? No	
v. Settlement or cracks visible in slope? Yes - depressions just west of the bottom layer of trees  vi. Toe drains flowing? NA  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: Water pooling in these areas, the ground was squishy, but there was not visible flow. The ground was also very squishy just north of the primary outlet.  D. Primary Spillway i. Any visible deterioration of structure? No  iii. Is there an obvious need to repair or replace trash rack? No  iii. Any noticeable problems with debris? Yes - debris (pine needles) needs to be cleaned off of the trash rack  iv. Is valve or gate present? Ves  E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? No  iii. Describe any deflection or damage observed to the pipe: None. There is erosion surrounding where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel: Water does not appear to be flowing away from the discharge area. Determine where the alockage is and unblock the channel.  Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? There is a pump house in the left emergency spillway on the upstream slope.  iii. Any noticeable deterioration in the approach or discharge channel?  No  iii. Any visible deterioration of structure's crest? No	iii. Any obvious alterations or repairs made? No	
vii. Toe drains flowing?  N/A  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow: water pooling in these areas, the ground was squishy, but there was not visible flow. The ground was also very squishy just north of the primary outlet.  D. Primary Spillway  i. Any visible deterioration of structure?  iii. Is there an obvious need to repair or replace trash rack?  iii. Any noticeable problems with debris?  Yes - debris (pine needles) needs to be cleaned off of the trash rack  iv. Is valve or gate present?  iii. Describe any deflection or damage observed to the pipe:  iii. Describe any deflection or damage observed to the pipe:  None. There is erosion surrounding where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  Water does not appear to be flowing away from the discharge area. Determine where the obockage is and unblock the channel:  Auxillary (Emergency) Spillway  i. Noticeable obstructions to flow?  There is a pump house in the left emergency spillway on the upstream slope.  iii. Any noticeable deterioration in the approach or discharge channel?  No  iii. Any visible deterioration of structure's crest?  No  Ves. Several seepage areas just inside the right groun. There was water pooling in these areas, the ground was squishy, water pooling in these areas, the ground was squishy, but the primary outlet.  No  Yes. Several seepage areas just inside the right ground. There was pushed water pooling in these areas, the ground was squishy, but the primary outlet.  No  None. There is erosion surrounding where the electron of the trash rack?  No  None. There is erosion surrounding where the electron of the primary outlet.  No  None. There is erosion surrounding where the electron of the primary outlet.  No  None. There is erosion surrounding where the electron of the primary outlet.	iv. Erosion observed on down stream slope? No	
vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  water pooling in these areas, the ground was squishy, but there was not visible flow. The ground was also very squishy just north of the primary outlet.  D. Primary Spillway  i. Any visible deterioration of structure?  No  iii. Is there an obvious need to repair or replace trash rack?  No  iii. Any noticeable problems with debris?  Yes - debris (pine needles) needs to be cleaned off of the trash rack  iv. Is valve or gate present?  Yes  E. Outlet Pipe  i. Any water visibly flowing or leaking outside of the discharge pipe?  No  iii. Describe any deflection or damage observed to the pipe:  None. There is erosion surrounding where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  There is a pump house in the left emergency spillway on the upstream slope.  iii. Any noticeable deterioration in the approach or discharge channel?  No  No  No  No  No  No  No  No  No  N	v. Settlement or cracks visible in slope? Yes - depressions just west of the bottom layer of trees	
flow rate, and any turbidity or color within the flow:  water pooling in these areas, the ground was squishy, but there was not visible flow. The ground was also very squishy just north of the primary outlet.  D. Primary Spillway  i. Any visible deterioration of structure?  No  iii. Is there an obvious need to repair or replace trash rack?  No  iii. Any noticeable problems with debris?  Yes - debris (pine needles) needs to be cleaned off of the trash rack  iv. Is valve or gate present?  Yes  E. Outlet Pipe  i. Any water visibly flowing or leaking outside of the discharge pipe?  No  iii. Describe any deflection or damage observed to the pipe:  None. There is erosion surrounding  where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  Water does not appear to be flowing away from the discharge area. Determine where the blockage is and unblock the channel.  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  There is a pump house in the left emergency spillway on the upstream slope.  iii. Any noticeable deterioration in the approach or discharge channel?  No  iii. Any visible deterioration of structure's crest?  No  No  No  No  No  No  No  No  No  N	vi. Toe drains flowing? N/A	
iii. Is there an obvious need to repair or replace trash rack?  Yes - debris (pine needles) needs to be cleaned off of the trash rack  iv. Is valve or gate present? Yes  E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? iii. Describe any deflection or damage observed to the pipe: None. There is erosion surrounding where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel: Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? There is a pump house in the left emergency spillway on the upstream slope.  iii. Any noticeable deterioration in the approach or discharge channel?  No  No  No  No  No  No  No  No  No  N	flow rate, and any turbidity or color within the flow:  water pooling in these areas, the ground was square but there was not visible flow. The ground was also very squishy just north of the primary outlet.  D. Primary Spillway	
iv. Is valve or gate present?  E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? ii. Describe any deflection or damage observed to the pipe:  where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage. iii. Visible condition of outlet channel:  Water does not appear to be flowing away from the discharge area. Determine where the plockage is and unblock the channel.  Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow?  There is a pump house in the left emergency spillway on the upstream slope.  iii. Animal activity observed?  No  iii. Any noticeable deterioration in the approach or discharge channel?  No  iv. Any visible deterioration of structure's crest?		
E. Outlet Pipe  i. Any water visibly flowing or leaking outside of the discharge pipe?  ii. Describe any deflection or damage observed to the pipe:  None. There is erosion surrounding where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  Water does not appear to be flowing away from the discharge area. Determine where the olockage is and unblock the channel.  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  There is a pump house in the left emergency spillway on the upstream slope.  iii. Animal activity observed?  No  iii. Any noticeable deterioration in the approach or discharge channel?  No  iv. Any visible deterioration of structure's crest?  No	iii. Any noticeable problems with debris?  Yes - debris (pine needles) needs to be cleaned off of the trash	rack
E. Outlet Pipe  i. Any water visibly flowing or leaking outside of the discharge pipe?  ii. Describe any deflection or damage observed to the pipe:  None. There is erosion surrounding where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  iii. Visible condition of outlet channel:  Water does not appear to be flowing away from the discharge area. Determine where the olockage is and unblock the channel.  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  There is a pump house in the left emergency spillway on the upstream slope.  iii. Animal activity observed?  No  iii. Any noticeable deterioration in the approach or discharge channel?  No  iv. Any visible deterioration of structure's crest?  No	iv le valve er gate present?	
ii. Describe any deflection or damage observed to the pipe:  None. There is erosion surrounding  None.	Yes	
where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.  Water does not appear to be flowing away from the discharge area. Determine where the blockage is and unblock the channel.  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  There is a pump house in the left emergency spillway on the upstream slope.  There is a pump house in the left emergency spillway on the upstream slope.  Water does not appear to be flowing away from the discharge area. Determine where the discharge is an unblock the channel.  There is a pump house in the left emergency spillway on the upstream slope.  III. Animal activity observed?  No  IV. Any visible deterioration of structure's crest?  No	E. Outlet Pipe  i. Any water visibly flowing or leaking outside of the discharge pipe?  No	
iii. Visible condition of outlet channel:  Water does not appear to be flowing away from the discharge area. Determine where the blockage is and unblock the channel.  F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow?  There is a pump house in the left emergency spillway on the upstream slope.  iii. Animal activity observed?  No  iii. Any noticeable deterioration in the approach or discharge channel?  No  iv. Any visible deterioration of structure's crest?  No	ii. Describe any deflection or damage observed to the pipe:  None. There is erosion s	urrounding
ii. Any noticeable deterioration in the approach or discharge channel?  No visible deterioration of structure's crest?  No visible deterioration of structure's crest?	where the outlet pipe exiting ground. Monitor and correct as needed to prevent further damage.	
i. Noticeable obstructions to flow?  There is a pump house in the left emergency spillway on the upstream slope.  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	iii. Visible condition of outlet channel: Water does not appear to be flowing away from the discharge area.	Determine where the
ii. Noticeable obstructions to flow?  There is a pump house in the left emergency spillway on the upstream slope.  iii. Animal activity observed?  No  iii. Any noticeable deterioration in the approach or discharge channel?  No  iv. Any visible deterioration of structure's crest?  No	blockage is and unblock the channel.	
iii. Any noticeable deterioration in the approach or discharge channel?  iv. Any visible deterioration of structure's crest?  No	A Nacharatia di Santa di California di Calif	e.
iv. Any visible deterioration of structure's crest?	ii. Animal activity observed? No	
	iii. Any noticeable deterioration in the approach or discharge channel?	
	iv. Any visible deterioration of structure's crest? No	

v. ii applicable,	any observed exposure of rebar reinforcement? N/A
vi. If applicable,	, any visible leakage below concrete spillway? N/A
	/Hazard Class Issues e changes immediately downstream of the dam that affects the hazard classification? No
	ction Plan (EAP) action Plan provided by owner? No
ii. Does EAP co	ontains emergency alert notification plan? If so, when was it last updated?
iii. Does EAP c	ontain specific actions to take if the dam has failed or is near failure?
General comm	nents and recommendations:
General comm	nents and recommendations: intain a grass cover across all aspects of the structure.
Your goal is to ma	nents and recommendations:
General common Your goal is to ma Closely monitor the the amount of see	nents and recommendations: intain a grass cover across all aspects of the structure. e seepage that was found during the inspection and call the Department if there is a change in the color,
General common Your goal is to ma Closely monitor the the amount of see	nents and recommendations: intain a grass cover across all aspects of the structure. e seepage that was found during the inspection and call the Department if there is a change in the color, page, or you see actual flows.
General comm Your goal is to ma Closely monitor the the amount of see	nents and recommendations: intain a grass cover across all aspects of the structure. e seepage that was found during the inspection and call the Department if there is a change in the color, page, or you see actual flows.
General common Your goal is to ma Closely monitor the the amount of see	nents and recommendations: intain a grass cover across all aspects of the structure. e seepage that was found during the inspection and call the Department if there is a change in the color, page, or you see actual flows.

# **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.

### **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.

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- 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.

This section is self-explanatory and guides the inspector though 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.



# 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: <b>D</b> <u>4067</u> & Hazard Class <u>C2</u> B. Name of	of Dam: Blakely Dam (Grace Dam 1)
C. Inspection Date (1_/15/20 14) & Time: 11:00 D. Date of	Last Inspection: (01/25/2011)
E. Location-County/City: Laurens / Enoree F. EQC R	egional Office: Greenwood
G. Inspector's Name: Stephanie Hackett, John Poole, Petar Milenkov	
H. Owner's Name: Specialty Vermiculite Corporation	
I. Contact Person (if different from above): Mike Balcher	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ( <u>864</u> _) <u>969</u> _3 <u>353 ext 279</u>
K. Dam Owner's or Contact Person's mailing address:	Other (864_)969 3353_
A J.J A 26202 Hun 224 N	
ACTURE I COOL TWY COLD	
Address 2 (optional)	
Address 2 (optional)	
Address 2 (optional), State <u>SC</u> Zi	
Address 2 (optional)  City Enoree , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	
Address 2 (optional)  City Enoree , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	p Code <u>29335</u>
Address 2 (optional)  City Enoree , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactory	p Code <u>29335</u>
Address 2 (optional)  City Enoree, State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair	p Code <u>29335</u>
Address 2 (optional)  City Enoree	p Code <u>29335</u>
Address 2 (optional)  City Enoree	p Code _29335

### Section III (Dam Inspection Checklist) continued

Upstream Slope     i. Vegetation (grass, trees weeds)? Lower Dam - Grass, weeds, not excessive; Upper Dam - couldn't see
ii. Animal activity observed? None observed on lower dam; upper dam couldn't see the upstream slope
•
iii. Any obvious alterations or repairs made? None observed on lower dam; upper dam couldn't see the upstream slope
iv. Erosion observed on upstream slope? None observed on lower dam; upper dam couldn't see the upstream slope
iv. Erosion observed on upstream slope? None observed on lower dam; upper dam couldn't see the upstream slope
v. Settlement or cracks visible in slope? None observed on lower dam; upper dam couldn't see the upstream slope
C. Down Stream Slope
i. Vegetation (grass, trees weeds)? Lower - grass, some trees, bare ground; Upper - bare soil, few trees and "wet weather" vegetation
ii. Animal activity observed? No
iii. Any obvious alterations or repairs made?  Working on the lift on the upper part of the dam
iv. Erosion observed on down stream slope? Long and deep gullies on the lower and upper dam.
v. Settlement or cracks visible in slope?
v. collision of cracke violete in clope.
vi. Toe drains flowing? Yes
"A consequence of the second o
vii. Any seepage observed? If so, describe location,  A routine inspection can not be performed on this dam
flow rate, and any turbidity or color within the flow:  due to site conditions. "Nomal seepage" noted in Ronald Mercer's inspection  to that it least as a fire of conditions are site of the conditions and the property of the conditions.
log that is kept on-site. Continue to monitor and if the seepage gets worse or if it changes color, contact the Department immediately  D. Primary Spillway
i. Any visible deterioration of structure? No
" le than an abrilana agailte namin an marlage treak mark
ii. Is there an obvious need to repair or replace trash rack?
iii Any nationable problems with debrie?
iii. Any noticeable problems with debris? No
iv. Is valve or gate present?
13 valve of gate present:
E. Outlet Pipe
i. Any water visibly flowing or leaking outside of the discharge pipe? Could not get close enough to view the pipe.
The broken part of the pipe observed in past inspections has been cut off (remainder of the pipe was in tact per Mr. Balcher)
ii. Describe any deflection or damage observed to the pipe: Could not get close enough to view the pipe.
iii. Visible condition of outlet channel: Clear
F. Auxiliary (Emergency) Spillway
i. Noticeable obstructions to flow?
ii Animal activity abanyad?
ii. Animal activity observed?
iii. Any noticeable deterioration in the approach or discharge channel?
m. 7 my nonocable deterioration in the approach of discharge charling:
iv. Any visible deterioration of structure's crest?
1V. Ally Violoto deterioration of structure 3 elest:
C 2604 (Rev 11/2011)
O 2007 (NOV 11/2011)

vi. If applicable, an	y visible leakage below concrete spillway?
	hanges immediately downstream of the dam that affects the hazard classification? No
I. Emergency Actic i. Emergency Actic	on Plan (EAP) on Plan provided by owner?  Yes
	ains emergency alert notification plan? If so, when was it last updated? 2-23-10 requirements; Mr. Balcer said he would incorporate DHEC form into their EAP
::: Dana EAD aant	
Section IV (Con	ain specific actions to take if the dam has failed or is near failure?  Inclusions)  Its and recommendations:  By with us prior to the inspection and led us on the inspection.
Section IV (Con General commen Mr. Mike Balcer spoke	aclusions)  Its and recommendations:  Its with us prior to the inspection and led us on the inspection.
Section IV (Con General commen Mr. Mike Balcer spoke Recent rain events ma	nclusions) Its and recommendations:
Section IV (Con General commen Mr. Mike Balcer spoke Recent rain events ma difficult to inspect - the	e with us prior to the inspection and led us on the inspection.  Indee it difficult to get to parts of the structure. The steepness and condition of the dam make it extermely
Section IV (Con General commen Mr. Mike Balcer spoke Recent rain events ma difficult to inspect - the	e with us prior to the inspection and led us on the inspection.  and it difficult to get to parts of the structure. The steepness and condition of the dam make it extermely exercise, spots checks are done from the toe of the dam and the crest of the dam.
Section IV (Con General commen Mr. Mike Balcer spoke Recent rain events ma difficult to inspect - the Two logs are kept by o	e with us prior to the inspection and led us on the inspection.  and it difficult to get to parts of the structure. The steepness and condition of the dam make it extermely exercise, spots checks are done from the toe of the dam and the crest of the dam.
Section IV (Con General commen Mr. Mike Balcer spoke Recent rain events ma difficult to inspect - the Two logs are kept by o	e with us prior to the inspection and led us on the inspection.  and it difficult to get to parts of the structure. The steepness and condition of the dam make it extermely exercise, spots checks are done from the toe of the dam and the crest of the dam.
Section IV (Con General commen Mr. Mike Balcer spoke Recent rain events ma difficult to inspect - the Two logs are kept by o	e with us prior to the inspection and led us on the inspection.  and it difficult to get to parts of the structure. The steepness and condition of the dam make it extermely exercise, spots checks are done from the toe of the dam and the crest of the dam.
Section IV (Con General commen Mr. Mike Balcer spoke Recent rain events ma difficult to inspect - the Two logs are kept by o	e with us prior to the inspection and led us on the inspection.  and it difficult to get to parts of the structure. The steepness and condition of the dam make it extermely exercise, spots checks are done from the toe of the dam and the crest of the dam.
Section IV (Con General commen Mr. Mike Balcer spoke Recent rain events ma difficult to inspect - the Two logs are kept by o	e with us prior to the inspection and led us on the inspection.  and it difficult to get to parts of the structure. The steepness and condition of the dam make it extermely exercise, spots checks are done from the toe of the dam and the crest of the dam.

#### **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.

- 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.

This section is self-explanatory and guides the inspector though 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.



# 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: <b>D</b> <u>4089</u> & Hazard Class <u>Significant</u> B.	Name of Dam: LAKE CHINQUAPIN DAM
C. Inspection Date (01/15/20 15) & Time: 08:50 AM D.	Date of Last Inspection: (02 / 09 / 2012 _)
E. Location-County/City: GREENWOOD / GREENWOOD F.	EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHANIE HACKETT	
H. Owner's Name: CHINQUAPIN COMMUNITY CORPORATION	
I. Contact Person (if different from above): JOHN HOWARD	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other ( <u>864</u> _) <u>554</u> - <u>0361</u> _
Address 1 205 HUNTINGTON ROAD	
Address 1 205 HUNTINGTON ROAD  Address 2 (optional)	
Address 2 (optional)	Zip Code <u>29646</u>
Address 2 (optional)	Zip Code <u>29646</u>
Address 2 (optional)  City GREENWOOD , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following	Zip Code _29646
Address 2 (optional)  City GREENWOOD, State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following  a) Satisfactory b) Fair c) Poor	Zip Code <u>29646</u>
Address 2 (optional)  City GREENWOOD , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following	Zip Code _29646
Address 2 (optional)  City GREENWOOD, State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following  a) Satisfactory b) Fair c) Poor	Zip Code _29646  ): Unsatisfactory e) Not Rated
Address 2 (optional)  City GREENWOOD , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following a) Satisfactory b) Fair c) Poor of d)  Section III (Dam Inspection Checklist)  A. Dam Crest	Zip Code _29646  ): Unsatisfactory e) Not Rated
Address 2 (optional)  City GREENWOOD , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following  a) Satisfactory b) Fair c) Poor od  Section III (Dam Inspection Checklist)  A. Dam Crest  i. Vegetation (grass, trees weeds)? asphalt road with grassed shoulder	Zip Code _29646  ): Unsatisfactory e) Not Rated
Address 2 (optional)  City GREENWOOD, State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following  a) Satisfactory b) Fair c) Poor	Zip Code _29646  ): Unsatisfactory e) Not Rated

### Section III (Dam Inspection Checklist) continued **B.** Upstream Slope i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? Yes - adjacent to the western side of the pier v. Settlement or cracks visible in slope? Concrete along the shoreline has been damaged and is missing in places. This should be fixed. Depressions adjacent to manhole. C. Down Stream Slope i. Vegetation (grass, trees weeds)? Grass, trees and shrubs growing up in vicinity of outlet pipe and upstream of it Briars, veg in right groin and toe. Difficult to perform a normal inspection due to the excess vegetation. ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? Only in the vicinity of the left emergency spillway v. Settlement or cracks visible in slope? Exposed soil above spillway pipe vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, Along the right toe there was a puddle of water, seepage along right groin flow rate, and any turbidity or color within the flow: all water appeared clear D. Primary Spillway i. Any visible deterioration of 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? Yes E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? Could not see in this vicinity due to the excess ii. Describe any deflection or damage observed to the pipe: There is a section on the right side of the discharge pipe that is missing iii. Visible condition of outlet channel: Mostly clear, water appears to be moving away from the structure F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? Picnic table on front slope ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? Bare soil on the backslope against the crest The "ditch" that had been eroded from overflows on the left side of the dam has been filled in with rip-rap.

iv. Any visible deterioration of structure's crest?

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?  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:  All excess vegetation peeds to be removed from the backglone of the dom and the right too of the dom. Your goal is to
All excess vegetation needs to be removed from the backslope of the dam and the right toe of the dam. Your goal is to
maintain a grass cover across all aspects of the dam. I could not fully look at the ground on the backslope or in the vicinity of the discharge pipe due to the vegetation.
Repairs need to be performed on the structure including any damaged areas: concrete along the water line, ensuring the
rip-rap filled emergency spillway is suitable. Based on information received by the Department in the past couple of years,
the hydraulic capacity of the dam should also be increased.
Please closely monitor the seepage on the structure. Please contact the Department if the amount or color of the seepage
changes.
A hydraulic analysis with repair options was submitted to the Central Office Dam Staff for their review in November of 2014.
*** All directions are given looking downstream.

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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

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- 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.

This section is self-explanatory and guides the inspector though 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.



# 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: <b>D</b> <u>4134</u> & Hazard Class <u>C2</u> B. Name of	f Dam: Pucketts Ferry Dam A1
C. Inspection Date (01/22/20 14) & Time: 1035 D. Date of	Last Inspection: (01_/21_/2011)
E. Location-County/City: Greenwood / Greenwood F. EQC Re	gional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Pucketts Ferry Homeowners Association	
I. Contact Person (if different from above): Terry Brown	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ( <u>864</u> ) <u>388</u> - <u>2147</u>
	Office ()
IK Dani O anada an Oratest Dani III a liti	Other ()
K. Dam Owner's or Contact Person's mailing address:	
Address 1 PO Box 638	
Address 2 (optional)	
	Code <u>29648</u>
City Greenwood , State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	
City Greenwood, State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair	Code <u>29648</u>
City Greenwood , State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisf  Section III (Dam Inspection Checklist)  A. Dam Crest	Code <u>29648</u>
City Greenwood, State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair	Code <u>29648</u>
City Greenwood	actory e) Not Rated

### Section III (Dam Inspection Checklist) continued **B. Upstream Slope** i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? Weir system has been installed (Permit # 24-0003). iv. Erosion observed on upstream slope? Erosion along the waters edge - mostly likely from wave action v. Settlement or cracks visible in slope? Soil has settled behind the Weir system box C. Down Stream Slope i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? Yes - catch basin has been installed along the toe of the dam on the left side. This serves the dam's weir system and the stormwater from the road. The "ditch" that had been dug out by water previously has been filled and grassed. iv. Erosion observed on down stream slope? v. Settlement or cracks visible in slope? 2-3 feet downstream from crest above new pipe called contractor already vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, None observed flow rate, and any turbidity or color within the flow: D. Primary Spillway i. Any visible deterioration of structure? Old spillway was cut and filled with concrete. New weir system has been installed and is in operation. No problems noted.

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/a	
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: Mostly clear,	
F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow?	
ii. Animal activity observed?	
iii. Any noticeable deterioration in the approach or discharge channel	?
iv. Any visible deterioration of structure's crest?	
EC 2604 (Rev 11/2011)	

-11	any visible leakage below concrete spillway?
	/Hazard Class Issues e changes immediately downstream of the dam that affects the hazard classification? No
	ction Plan (EAP) action Plan provided by owner?  Department received EAP via mail on January 24, 2014
ii. Does EAP co	ontains emergency alert notification plan? If so, when was it last updated? Yes, 1/22/14
iii. Does EAP co	ontain specific actions to take if the dam has failed or is near failure? yes
The following gentl	lemen met me for the inspection: Terry brown, Jack Hill, Johnny Hodges, Jerry Simmons
	lemen met me for the inspection: Terry brown, Jack Hill, Johnny Hodges, Jerry Simmons ‡2 in the repair permit was not followed. Condition stated: "When construction is complete, the owner's
Special condition #	
Special condition # engineer must noti	\$2 in the repair permit was not followed. Condition stated: "When construction is complete, the owner's
Special condition # engineer must noti a joint inspectionof	#2 in the repair permit was not followed. Condition stated: "When construction is complete, the owner's of DHEC in writing within 10 days that the dam has been properly constructed. DHEC will then schedule
Special condition # engineer must noti a joint inspection of a Certification of C	fy DHEC in writing within10 days that the dam has been properly constructed. DHEC will then schedule the dam with the engineer. Once the final inspection is satisfactorily completed, DHEC will issue
Special condition # engineer must noti a joint inspection of a Certification of C	#2 in the repair permit was not followed. Condition stated: "When construction is complete, the owner's ify DHEC in writing within10 days that the dam has been properly constructed. DHEC will then schedule if the dam with the engineer. Once the final inspection is satisfactorily completed, DHEC will issue completion. You do not have the legal right to increase the impounded water surface elevation
Special condition # engineer must noti a joint inspection of a Certification of C	#2 in the repair permit was not followed. Condition stated: "When construction is complete, the owner's ify DHEC in writing within10 days that the dam has been properly constructed. DHEC will then schedule if the dam with the engineer. Once the final inspection is satisfactorily completed, DHEC will issue completion. You do not have the legal right to increase the impounded water surface elevation
Special condition # engineer must noti a joint inspection of a Certification of C	#2 in the repair permit was not followed. Condition stated: "When construction is complete, the owner's ify DHEC in writing within10 days that the dam has been properly constructed. DHEC will then schedule if the dam with the engineer. Once the final inspection is satisfactorily completed, DHEC will issue completion. You do not have the legal right to increase the impounded water surface elevation

#### **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.

- 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.

This section is self-explanatory and guides the inspector though 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.



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

OTE PROTECT PROSPER	R.72-1 through R.72-9

Section I (Owner's Information)	
A. Dam Number: <b>D</b> 4135 & Hazard Class C2	B. Name of Dam: Pucketts Ferry Dam C2
C. Inspection Date (01/22/20 14) & Time: 1118	D. Date of Last Inspection: (01_/21_/2011)
E. Location-County/City: Greenwood / Greenwood	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	·
H. Owner's Name: Pucketts Ferry Homeowners Association	
I. Contact Person (if different from above): Terry Brown	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ( <u>864_</u> ) <u>388_</u> - <u>2147</u> _
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other ()
A 1.1	
Address 1 PO Box 638	
Address 2 (optional)	
Section II (Dam Condition)	
General Condition Assessment (Select one of the following	wing):
a) Satisfactory b) Fair c) Poor	
Section III (Dam Inspection Checklist)	
A. Dam Crest i. Vegetation (grass, trees weeds)? Road	
ii. Animal activity observed? №	
iii. Any obvious alteration or repairs made? No	
iv. Erosion noticed on crest?	
v. Any visible settlement, misalignment or cracks? In road	
DHEC 2604 (Rev 11/2011)	

### Section III (Dam Inspection Checklist) continued **B. Upstream Slope** i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? yes - adjacent to the water v. Settlement or cracks visible in slope? No C. Down Stream Slope i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? v. Settlement or cracks visible in slope? No. vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, No flow rate, and any turbidity or color within the flow: D. Primary Spillway i. Any visible deterioration of structure? ii. Is there an obvious need to repair or replace trash rack? iii. Any noticeable problems with debris? Trash rack needs to be cleaned off iv. Is valve or gate present? Yes E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? Could not get adjacent to the pipe due to a fence that is surrounding the area to keep beavers off the dam. Leaking water was not observed from a distance ii. Describe any deflection or damage observed to the pipe: iii. Visible condition of outlet channel: Mostly clear to lake F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? No ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? iv. Any visible deterioration of structure's crest?

vi. If applicable, any visible leakage below concrete spillway?
. Downstream/Hazard Class Issues
. Any noticeable changes immediately downstream of the dam that affects the hazard classification?
Emergency Action Plan (EAP) i. Emergency Action Plan provided by owner? EAP received by the Department on 1/24/14
Emergency Action Flan provided by owner:
ii. Does EAP contains emergency alert notification plan? If so, when was it last updated? Yes. 1/22/14
iii. Does EAP contain specific actions to take if the dam has failed or is near failure? Yes
ection IV (Conclusions)
General comments and recommendations:
Please continue to maintain the structure.
Please continue to maintain the structure.  Also, prior to performing any work on the dam, a Permit to Repair or Alter the Dam must be obtained from the Departr
Please continue to maintain the structure.

#### **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.

- 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.

This section is self-explanatory and guides the inspector though 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.



DHEC 2604 (Rev 11/2011)

# 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** 4136 & Hazard Class C2 B. Name of Dam: Pucketts Ferry Dam C1 C. Inspection Date ( 01 /22 /20 14) & Time: 1057 D. Date of Last Inspection: (01 / 21 / 2011) E. Location-County/City: Greenwood / Greenwood F. EQC Regional Office: Greenwood G. Inspector's Name: Stephanie Hackett H. Owner's Name: Pucketts Ferry Homeowners Association I. Contact Person (if different from above): Terry Brown J. Dam Owner's or Contact Person's Phone Numbers: Home (864\_) 388\_ - 2147\_ Office (\_ \_ \_) \_ \_ - - \_ \_ \_ Other (\_ \_ \_) \_ \_ - - \_ \_ \_ K. Dam Owner's or Contact Person's mailing address: Address 1 PO Box 638 Address 2 (optional)\_\_\_\_\_ State <u>SC</u> Zip Code <u>29648</u> - \_ \_ \_ City Greenwood **Section II (Dam Condition)** General Condition Assessment (Select one of the following): c) Poor | d) Unsatisfactory | e) Not Rated a) Satisfactory b) Fair **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? v. Any visible settlement, misalignment or cracks? No

### **B.** Upstream Slope i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? Slight erosion adjacent to the water v. Settlement or cracks visible in slope? No. C. Down Stream Slope i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? 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: D. Primary Spillway i. Any visible deterioration of structure? Spillway structure is no longer useable. Structure was cut on the inlet side and then filled with concrete in September of 2014 per the gentlemen I met on-site 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? Spillway structure is no longer useable. Structure was cut on the inlet side and then filled with concrete in September of 2014 per the gentlemen I met on-site. 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? iii. Any noticeable deterioration in the approach or discharge channel? Grass is beginning to detroirate on the downstream slope. Left Emergency was in use at the time of the inspection. Left emergency spillway is currently being used as the primary spillway. iv. Any visible deterioration of structure's crest?

Section III (Dam Inspection Checklist) continued

t If and Park Inc.	Called and a second and a second as a	'II - 0
vi. if applicable, any v	isible leakage below concrete sp	olliway?
H. Downstream/Haza i. Any noticeable char		the dam that affects the hazard classification?
i. Emergency Action		was received by the Department on 1/24/14.
ii. Does EAP contains	s emergency alert notification pla	in? If so, when was it last updated? Yes. 1/22/14
iii. Does EAP contain	specific actions to take if the da	m has failed or is near failure? Yes
Section IV (Concl	usions)	
General comments	and recommendations:	n, Jack Hill, Johnny Hodges, Jerry Simmons
General comments The following gentlemen	and recommendations: met me for the inspection: Terry brow	n, Jack Hill, Johnny Hodges, Jerry Simmons mit to repair or alter the dam. Filling the spillway with
General comments The following gentlemen You are not authorized to	and recommendations: met me for the inspection: Terry brow perform work on a dam without a per	
General comments The following gentlemen You are not authorized to concrete is a permanent r	and recommendations: met me for the inspection: Terry brow perform work on a dam without a per	mit to repair or alter the dam. Filling the spillway with
General comments The following gentlemen You are not authorized to concrete is a permanent r this work.	and recommendations: met me for the inspection: Terry brow perform work on a dam without a per epair. A permit to repair or alter the d	mit to repair or alter the dam. Filling the spillway with
General comments The following gentlemen You are not authorized to concrete is a permanent r this work. Per the representatives o	and recommendations: met me for the inspection: Terry brow perform work on a dam without a per epair. A permit to repair or alter the d n-site, no more work was going to be	mit to repair or alter the dam. Filling the spillway with am should have been applied for and obtained prior to do
General comments The following gentlemen You are not authorized to concrete is a permanent r this work. Per the representatives o current condition. It does	and recommendations: met me for the inspection: Terry brow perform work on a dam without a per epair. A permit to repair or alter the d n-site, no more work was going to be not meet hydraulic requirements set	mit to repair or alter the dam. Filling the spillway with am should have been applied for and obtained prior to do performed on this dam. The dam cannot be left in its
General comments The following gentlemen You are not authorized to concrete is a permanent r this work. Per the representatives o current condition. It does prepare and submit a per	and recommendations: met me for the inspection: Terry brow perform work on a dam without a per epair. A permit to repair or alter the d n-site, no more work was going to be not meet hydraulic requirements set	mit to repair or alter the dam. Filling the spillway with am should have been applied for and obtained prior to do performed on this dam. The dam cannot be left in its forth in the Regulations. You must meet with your engine
General comments The following gentlemen You are not authorized to concrete is a permanent r this work. Per the representatives o current condition. It does prepare and submit a per	and recommendations: met me for the inspection: Terry brow perform work on a dam without a per epair. A permit to repair or alter the d n-site, no more work was going to be not meet hydraulic requirements set mit application and receive approval finonitor the emergency spillway closely	mit to repair or alter the dam. Filling the spillway with am should have been applied for and obtained prior to do performed on this dam. The dam cannot be left in its forth in the Regulations. You must meet with your engine or this permit prior to performing any additional work.

#### **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.

- 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.

This section is self-explanatory and guides the inspector though 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.



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

#### Section I (Owner's Information)

Section (Owner S information)	
A. Dam Number: <b>D</b> <u>4320</u> & Hazard Class <u>C2</u> B. Name of	of Dam: Rabon Creek WCD Dam 32
C. Inspection Date (12/14/20 12) & Time: 9:45 AM D. Date of	f Last Inspection: ( <u>07_/07_/2010</u> )
E. Location-County/City: Laurens / Laurens F. EQC Re	egional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: LCWSC	
I. Contact Person (if different from above): Tom Thomason	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ( <u>864</u> ) <u>682</u> - <u>3250</u>
IX Dans O and a se O at a t D and a language and the second	Other (864_) 923 0130_
K. Dam Owner's or Contact Person's mailing address:	
A July 200 A DO Poy 1006	
Address 1 PO Box 1006	
Address 2 (optional)	
Address 2 (optional), State <u>SC</u> Zi	
Address 2 (optional)	
Address 2 (optional)  City Laurens  , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	
Address 2 (optional)  City Laurens , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor d) Unsatis	ip Code _29360
Address 2 (optional)  City Laurens , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	ip Code _2 <u>9360</u>
Address 2 (optional)  City Laurens , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor d) Unsatis  Section III (Dam Inspection Checklist)  A. Dam Crest	ip Code _29360
Address 2 (optional)  City Laurens	ip Code _29360
Address 2 (optional)  City Laurens , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor d) Unsatist  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Grass  ii. Animal activity observed? No	ip Code _29360

### Section III (Dam Inspection Checklist) continued **B. Upstream Slope** i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? v. Settlement or cracks visible in slope? NO C. Down Stream Slope i. Vegetation (grass, trees weeds)? Grass; some ruts ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? Some depressions on the southern end of the structure. Mr. Thomason stated these areas have not changed. v. Settlement or cracks visible in slope? No. vi. Toe drains flowing? 1 of the 2 toe drains is flowing. 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? ii. Is there an obvious need to repair or replace trash rack? iii. Any noticeable problems with debris? iv. Is valve or gate present? Valve stem was visible. E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? Water is flowing through the drains on both sides of wall bordering the outlet channel ii. Describe any deflection or damage observed to the pipe: iii. Visible condition of outlet channel: Clear path. F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? Clear path between the pond and the concrete outlet structure. Many trees at the base of this ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? iv. Any visible deterioration of structure's crest? DHEC 2604 (Rev 11/2011)

vi. If applicable, an	y visible leakage below concrete spillway? NO		
H. Downstream/Ha	zard Class Issues		
i. Any noticeable c	hanges immediately downstream of the dam that affects the hazard classification? No		
. Emergency Actio			
i. Emergency Action	on Plan provided by owner? No.		
ii. Does EAP conta	ains emergency alert notification plan? If so, when was it last updated?		
Section IV (Con	ts and recommendations:		
Section IV (Con General commen Thank you for the cont	its and recommendations:  inued upkeep of the structure. Please continue to monitor the depressions on the backslope of the dame		
Section IV (Con General commen Thank you for the cont and to watch the color	nclusions) Its and recommendations:		
Section IV (Con General commen Thank you for the cont and to watch the color	ints and recommendations: inued upkeep of the structure. Please continue to monitor the depressions on the backslope of the dame and turbidity of the water being released from the toe drain system.  If or the toe drain system - Mr. Thomason showed me the two areas where water is released on the		
Section IV (Con General commen Thank you for the cont and to watch the color I did not see the pipes	ints and recommendations: inued upkeep of the structure. Please continue to monitor the depressions on the backslope of the dame and turbidity of the water being released from the toe drain system.  If or the toe drain system - Mr. Thomason showed me the two areas where water is released on the		
Section IV (Con General commen Thank you for the cont and to watch the color I did not see the pipes	ints and recommendations: inued upkeep of the structure. Please continue to monitor the depressions on the backslope of the dame and turbidity of the water being released from the toe drain system.  If or the toe drain system - Mr. Thomason showed me the two areas where water is released on the		
Section IV (Con General commen Thank you for the cont and to watch the color I did not see the pipes	ints and recommendations: inued upkeep of the structure. Please continue to monitor the depressions on the backslope of the dame and turbidity of the water being released from the toe drain system.  If or the toe drain system - Mr. Thomason showed me the two areas where water is released on the		
Section IV (Con General commen Thank you for the cont and to watch the color I did not see the pipes	ints and recommendations: inued upkeep of the structure. Please continue to monitor the depressions on the backslope of the dame and turbidity of the water being released from the toe drain system.  If or the toe drain system - Mr. Thomason showed me the two areas where water is released on the		
Section IV (Con General commen Thank you for the cont and to watch the color I did not see the pipes	ints and recommendations: inued upkeep of the structure. Please continue to monitor the depressions on the backslope of the dame and turbidity of the water being released from the toe drain system.  If or the toe drain system - Mr. Thomason showed me the two areas where water is released on the		

#### **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.

- 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.

This section is self-explanatory and guides the inspector though 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.



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

MOTE TROTEGY TROOTER	
Section I (Owner's Information)	
A. Dam Number: <b>D</b> <u>4360</u> & Hazard Class <u>C2</u> B. Na	ame of Dam: Lower Northlake Drive
C. Inspection Date (12/19/20 13) & Time: 12:50 PM D. D.	ate of Last Inspection: (01_/05/2010)
E. Location-County/City: Greenwood / Greenwood F. EC	QC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett, John Poole	
H. Owner's Name: B.S.W. Inc, Lee Tremayne	
I. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other ()
11. Dam Owner 3 or Contact 1 crooms maining address.	
Addroce 1 162 Orchard Park Drive, Greenwood, SC 29649: 1012 Northlake Drive, C	Greenwood SC 29649
Address 1 162 Orchard Park Drive, Greenwood, SC 29649; 1012 Northlake Drive, G	
Address 1 162 Orchard Park Drive, Greenwood, SC 29649; 1012 Northlake Drive, C  Address 2 (optional), State	
Address 2 (optional)  City, State  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	
Address 2 (optional)  City	Zip Code
Address 2 (optional)  City, State  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	Zip Code
Address 2 (optional)  City, State  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Ur  Section III (Dam Inspection Checklist)  A. Dam Crest	Zip Code
Address 2 (optional)  City	Zip Code
Address 2 (optional)  City	Zip Code

### Section III (Dam Inspection Checklist) continued **B. Upstream Slope** i. Vegetation (grass, trees weeds)? Trees, weeds ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? v. Settlement or cracks visible in slope? No C. Down Stream Slope i. Vegetation (grass, trees weeds)? Pine Trees, pinestraw ii. Animal activity observed? No. Downstream slope not fully inspected due to site conditions. iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? No. Downstream slope not fully inspected due to site conditions. v. Settlement or cracks visible in slope? Downstream slope not fully inspected due to site conditions. vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, Downstream slope not fully inspected due to site conditions. flow rate, and any turbidity or color within the flow: D. Primary Spillway i. Any visible deterioration of structure? Owner (Boyce Banks with B.S.W. Inc) stated they are slowly draining the pond. To do this, they are cutting down (horizontal slices) the primary spillway structure so that the pond can drain. 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? ii. Describe any deflection or damage observed to the pipe: iii. Visible condition of outlet channel: Water was not pooling much at discharge pipe. F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? iv. Any visible deterioration of structure's crest?

I. Downstream/Hazard Class Iss i. Any noticeable changes immedia	ately downstream of the dam that affects the hazard classification? No
. Emergency Action Plan (EAP) i. Emergency Action Plan provide	d by owner? No
	•
ii. Does EAP contains emergency	alert notification plan? If so, when was it last updated?
iii. Does EAP contain specific acti	ons to take if the dam has failed or is near failure?
Inspectors spoke with Mr. Boyce Banks	prior to the inspection. He stated they want to eventually breach the dam.
	the pond by taking slices out of the primary spillway. Pond water level was low
	eaching the dam or having to cut into the front slope any more (in order to cut
·	res that you discuss the manner with John Poole (803-898-4212) since
	urtment prior to doing any non-routine work on the dam.
If the current plan of action changes, ple	
3,1	

#### **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.

- 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.

This section is self-explanatory and guides the inspector though 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.



Section I (Owner's Information)	
A. Dam Number: <b>D</b> <u>4361</u> & Hazard Class <u>C2</u> B.	Name of Dam: Upper Northlake Dam
C. Inspection Date (12/19/20 13) & Time: 11:00 D.	Date of Last Inspection: (01_/05/2010)
E. Location-County/City: Greenwood / Greenwood F.	EQC Regional Office: Greenwood
G. Inspector's Name: John Poole, Stephanie Hackett	
H. Owner's Name: Davis Heritage Family LLC, Kevin and Kristy Nichols, Brian Oak	s
I. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other ()
Address 1	
Address I	
Address 1	
Address 2 (optional), State	
Address 2 (optional), State  Section II (Dam Condition)	 Zip Code
Address 2 (optional)  City, State  Section II (Dam Condition)  General Condition Assessment (Select one of the following	 Zip Code
Address 2 (optional)  City, State  Section II (Dam Condition)  General Condition Assessment (Select one of the following	
Address 2 (optional)	
Address 2 (optional)  City, State  Section II (Dam Condition)  General Condition Assessment (Select one of the following a) Satisfactory b) Fair c) Poor d)  Section III (Dam Inspection Checklist)  A. Dam Crest	
Address 2 (optional)  City, State  Section II (Dam Condition)  General Condition Assessment (Select one of the following a) Satisfactory b) Fair c) Poor d)  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Majority of the crest is pine straw	
City, State  Section II (Dam Condition)  General Condition Assessment (Select one of the following a) Satisfactory b) Fair c) Poor d)  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Majority of the crest is pine straw  ii. Animal activity observed? No  iii. Any obvious alteration or repairs made? No	

### Section III (Dam Inspection Checklist) continued **B.** Upstream Slope i. Vegetation (grass, trees weeds)? Pine trees, pine straw, weeds ii. Animal activity observed? Yes - appears to be beavers on this dam iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? v. Settlement or cracks visible in slope? No C. Down Stream Slope i. Vegetation (grass, trees weeds)? Trees, weeds, briars ii. Animal activity observed? Inspectors were unable to perform a routine inspection due to the abundance of unwanted vegetation iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? Erosion/land slides have occurred on the left side of the dam near the crest. v. Settlement or cracks visible in slope? Back slope is no longer an uniform slope. vi. Toe drains flowing? Not Applicable vii. Any seepage observed? If so, describe location, Yes. Left of the outlet pipe. Flow of water out of the brush to the flow rate, and any turbidity or color within the flow: right of the outlet pipe. Sources were not found due to the abundance of vegetation. Area surrounding the toe of the dam was saturated and John Poole believes this is a result of seepage not rain events. D. Primary Spillway i. Any visible deterioration of structure? A white pipe was sticking out of the water in the vicinity of the primary spillway. It appears that this white structure has been added since the last routine inspection. ii. Is there an obvious need to repair or replace trash rack? iii. Any noticeable problems with debris? iv. Is valve or gate present? Valve stem was visible E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? Couldn't inspect closely. ii. Describe any deflection or damage observed to the pipe: Pipe is split on the bottom and rusted. iii. Visible condition of outlet channel: Fairly clear area into the downstream pond F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? Yes. There is not a defined path for the water to flow out of the pond on the right side of the dam. ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel?

#### DHEC 2604 (Rev 11/2011)

iv. Any visible deterioration of structure's crest?

i If applicable ap	v visible leekage below concrete enillway?
vi. ii applicable, ang	y visible leakage below concrete spillway?
H. Downstream/Ha	zard Class Issues
i. Any noticeable ch	hanges immediately downstream of the dam that affects the hazard classification?
Not at this time.	
l. Emergency Actio	
i. Emergency Actio	on Plan provided by owner? No
ii. Does EAP conta	nins emergency alert notification plan? If so, when was it last updated?
iii. Does EAP conta	ain specific actions to take if the dam has failed or is near failure?
Section IV (Con	clusions)
Section IV (Con	<u>clusions)</u>
	clusions) ts and recommendations:
General comment	
General comment	ts and recommendations:
General comment The primary spillway has The abundance of vego	ts and recommendations: as been altered and is not functioning as designed.
General comment The primary spillway has The abundance of vego properly performed.	ts and recommendations: as been altered and is not functioning as designed.
General comment The primary spillway ha The abundance of vego properly performed. Seepage areas on the	ts and recommendations: as been altered and is not functioning as designed. etation on the backslope made it difficult to inspect. Therefore, a routine inspection could not be
The primary spillway has The abundance of vego properly performed.  Seepage areas on the Right emergency spillway has a spillw	ts and recommendations: as been altered and is not functioning as designed.  etation on the backslope made it difficult to inspect. Therefore, a routine inspection could not be  dam need to be monitored and looked at closely.
General comment The primary spillway ha The abundance of vego properly performed. Seepage areas on the Right emergency spillway	ts and recommendations: as been altered and is not functioning as designed.  etation on the backslope made it difficult to inspect. Therefore, a routine inspection could not be  dam need to be monitored and looked at closely.  vay does not have a clear path for the water to flow out of it.
General comment The primary spillway ha The abundance of vego properly performed. Seepage areas on the Right emergency spillway	ts and recommendations: as been altered and is not functioning as designed.  etation on the backslope made it difficult to inspect. Therefore, a routine inspection could not be  dam need to be monitored and looked at closely.  vay does not have a clear path for the water to flow out of it.
General comment The primary spillway ha The abundance of vego properly performed. Seepage areas on the Right emergency spillway	ts and recommendations: as been altered and is not functioning as designed.  etation on the backslope made it difficult to inspect. Therefore, a routine inspection could not be  dam need to be monitored and looked at closely.  vay does not have a clear path for the water to flow out of it.
General comment The primary spillway ha The abundance of vego properly performed. Seepage areas on the Right emergency spillway	ts and recommendations: as been altered and is not functioning as designed.  etation on the backslope made it difficult to inspect. Therefore, a routine inspection could not be  dam need to be monitored and looked at closely.  vay does not have a clear path for the water to flow out of it.
General comment The primary spillway ha The abundance of vego properly performed. Seepage areas on the Right emergency spillw Back slope is not a sm	ts and recommendations: as been altered and is not functioning as designed.  etation on the backslope made it difficult to inspect. Therefore, a routine inspection could not be  dam need to be monitored and looked at closely.  vay does not have a clear path for the water to flow out of it.

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#### **INSTRUCTIONS**

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- E) Location-County/City; Enter the county and city, if applicable, where the dam is located.
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- 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.
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- 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.

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#### 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.



A. Dam Number: <b>D</b> <u>4405</u> & Hazard Class <u>Significant</u> B. Name of D	Dam: Curtail Dam
C. Inspection Date (11/18/20 14) & Time: 09:50 AM D. Date of La	ast Inspection: ( <u>11_/21_/2011</u> _)
E. Location-County/City: Greenwood / Greenwood F. EQC Regi	ional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: R&R Golf, Inc.	
I. Contact Person (if different from above): Sam Randazzo III	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office (864) 223 - 1250
	Other (864_) 554 1250
K. Dam Owner's or Contact Person's mailing address:	
Address 1 702 Hunters Creek Blvd	
A 1.1	
Address 2 (optional)	
	Code <u>29649</u>
City Greenwood , State SC Zip C  Section II (Dam Condition)	Code <u>29649</u>
City Greenwood , State SC Zip C	
City Greenwood , State SC Zip C  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactory	
City Greenwood , State SC Zip C  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfactory Section III (Dam Inspection Checklist)	
City Greenwood , State SC Zip C  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor  d) Unsatisfactory	
City Greenwood, State SC Zip Color	
City Greenwood , State SC Zip C  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfact  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)?	
City Greenwood	

### Section III (Dam Inspection Checklist) continued **B.** Upstream Slope i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? Yes - possibly from wave action. Please monitor and fix as needed to prevent further damage to the upstream slope. v. Settlement or cracks visible in slope? No. C. Down Stream Slope i. Vegetation (grass, trees weeds)? Grass. Trees are growing in the vicinity of the outlet structure. Your goal is to maintain a grass cover across all aspects of the structure. Please remove the small weeds/trees in the vicinity of the outlet pipe. This needs to be done on a regular basis. ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? v. Settlement or cracks visible in slope? No vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, No. It also rained the day before the inspection so there were wet areas. flow rate, and any turbidity or color within the flow: Please inspect the dam regularly to look for seepage. D. Primary Spillway i. Any visible deterioration of structure? Yes. A section of the trash rack (cap) is missing due to rust. ii. Is there an obvious need to repair or replace trash rack? Yes iii. Any noticeable problems with debris? iv. Is valve or gate present? Yes. It is not exercised. E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? ii. Describe any deflection or damage observed to the pipe: None iii. Visible condition of outlet channel: Water is pooling in the discharge area and standing in the outlet pipe. Clear any debris from the area to see if that will allow water to flow away from the discharge pipe. If this doesn't work, you may need to have a Professional Engineer look at the pipe. F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? iv. Any visible deterioration of structure's crest?

	gency) Spillway continued y observed exposure of rebar reinforcement? N/a
vi. If applicable, ar	ny visible leakage below concrete spillway? N/a
	hazard Class Issues changes immediately downstream of the dam that affects the hazard classification?
I. Emergency Action	on Plan (EAP) on Plan provided by owner? No
ii. Does EAP conta	ains emergency alert notification plan? If so, when was it last updated?
iii. Does EAP cont	tain specific actions to take if the dam has failed or is near failure?
	nts and recommendations:  Inters Creek Golf Course attended the inspection.
It is reccommended th	nat you have someone look at the trash rack due to the section that has rusted away. You may
want to consider havir	ng someone check the integrity of your spillway to ensure that it is not having rust problems.
If you choose to repla-	ce the trash rack, as long as you keep the same dimensions you will not need a Permit from the
Department. Please f	reel free to contact us prior to any maintenance/replacement activities to determine if a Permit is
needed.	
Water does not appea	ar to be flowing out of the outlet pipe downstream. Please ensure that debris is not blocking the flow
of water. If this does i	not solve the problem, you may need to hire Professional Engineer (in the state of South Carolina) to
perform an inspection	of the structure to try and determine the cause.
Please continue to ma	aintain a grass cover across all aspects of the dam.
Also, a repair permit for	rom the dam may be needed for any non-routine maintenance activities. Please contact the
Department if you have	ve any questions related to this.

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#### **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.

- 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.

This section is self-explanatory and guides the inspector though 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.



Section I (Owner's Information)	
A. Dam Number: <b>D</b> <u>4527</u> & Hazard Class <u>Significant</u> B.	Name of Dam: Lakeside Country Club Dam
C. Inspection Date (11/10/20 14) & Time: 09:30 AM D.	Date of Last Inspection: (//)
E. Location-County/City: / F.	EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Lakeside Corp, Erskina A and Sara Jacks	
I. Contact Person (if different from above): JR Hawkins	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
I/ Dans Ournaula au Contest Dans alle as alles as alles as	Other ( <u>864</u> _) <u>477</u> <u>8620</u> _
K. Dam Owner's or Contact Person's mailing address:	
Address 1 PO Box 549	
Address 2 (optional), State <u>SC</u>	Zip Code _29360
City Laurens , State SC	
City Laurens , State SC  Section II (Dam Condition)	_ Zip Code <u>29360</u>
City Laurens , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following	_ Zip Code <u>29360</u>
City Laurens , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following	Zip Code _29360
City Laurens , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following  a) Satisfactory  b) Fair  c) Poor d)	Zip Code _29360
Section II (Dam Condition)  General Condition Assessment (Select one of the following  a) Satisfactory b) Fair c) Poor d)  Section III (Dam Inspection Checklist)  A. Dam Crest	Zip Code _29360
City Laurens , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following  a) Satisfactory b) Fair c) Poor d)  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Grass, leaves, roots	Zip Code _29360
City Laurens , State SC  Section II (Dam Condition)  General Condition Assessment (Select one of the following a) Satisfactory b) Fair c) Poor d)  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Grass, leaves, roots  ii. Animal activity observed?	Zip Code _29360

### Section III (Dam Inspection Checklist) continued

B. Upstream Slope i. Vegetation (grass, trees weeds)? trees, stumps, weeds, debris.
ii. Animal activity observed? Beavers (based on visual evidence of trees that have been "cut" down)
iii. Any obvious alterations or repairs made? №
iv. Erosion observed on upstream slope? No
v. Settlement or cracks visible in slope? No
C. Down Stream Slope i. Vegetation (grass, trees weeds)? Leaves, small trees, large trees, brush
ii. Animal activity observed? No
iii. Any obvious alterations or repairs made? No
iv. Erosion observed on down stream slope? No active erosion was noted. Slope is uneven.
v. Settlement or cracks visible in slope? Uneven slope
vi. Toe drains flowing? N/A
flow rate, and any turbidity or color within the flow:  D. Primary Spillway  i. Any visible deterioration of structure?  Per Mr. Hawkins, the old primary spillway intake has been closed by the valve. The si
system appears to be in decent shape
ii. Is there an obvious need to repair or replace trash rack?  N/A
iii. Any noticeable problems with debris? N/A
iv. Is valve or gate present?   Valve stem visible for old spillway system. There are valves on the siphon system
E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe?
ii. Describe any deflection or damage observed to the pipe:  Old discharge pipe is rusted and there is wat
flowing from the pipe. There was not any water flowing from the siphon system.  iii. Visible condition of outlet channel: Clear
III. VISIBLE CONDITION OF OUTER CHAINEL. Clear
F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow?  Left emergency spillway - ensure water has a clear path from the pond, over the crest, and onto
backslope 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
C 2604 (Rev 11/2011)

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? inspection. Mr. Hawkins stated he would fax it back  No. One was handed to Mr. Hawkins at the time of the	
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?	
General comments and recommendations:  J.R. Hawkins attended the inspection.	
Your goal is to maintain a grass cover across all aspects of the structure. Per Mr. Hawkins, an engineer looked at the	
structure a couple years ago and suggested they work on removing all of the excess vegetation. Mr. Hawins said they	y have
started this process by removing the small vegetation first. Please continue to remove all small vegetation and debris	
from the front slope and back slope of the dam. Please remember that a permit from the Department may be required	ţ
prior to removing the large trees. Please contact the Department to determine if a permit is required prior to beginning	3
this work.	
Front slope and back slope do not have even slopes. Please monitor the ground closely to determine if there is active	<del>,</del>
erosion or sloughing. Please contact the Department if this occurs.	_
It appears that the valve is not fully shut on the old primary spillway	
***all directions are given looking downstroom	

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#### **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:

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- 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.
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- 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.

This section is self-explanatory and guides the inspector though 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.



DHEC 2604 (Rev 11/2011)

# 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: <b>D</b> 4529 & Hazard Class Significant	3. Name of Dam: Carroll Thompson Dam
C. Inspection Date (12 /23 /20 14) & Time: 09:19 PM	D. Date of Last Inspection: (//)
E. Location-County/City: Laurens / Laurens	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Carroll Thompson, Mary Burris, Laura Fanning	
I. Contact Person (if different from above): Carroll Thompson	······································
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office ()
K.D. O. J. O. J. D. J. J. J. J.	Other (864_) 6825622
K. Dam Owner's or Contact Person's mailing address:	
Address 1 2956 Lakeview Drive	
Address 2 (optional)	
City Laurens , State So	Z Zip Code _2 <u>9360</u>
Section II (Dam Condition)	
General Condition Assessment (Select one of the following	ng):
	ng): d) Unsatisfactory e) Not Rated
a) Satisfactory b) Fair c) Poor	
a) Satisfactory b) Fair c) Poor Section III (Dam Inspection Checklist)  A. Dam Crest	
a) Satisfactory b) Fair c) Poor Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Mud, grass	
a) Satisfactory b) Fair c) Poor  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? Mud, grass  ii. Animal activity observed?	

### Section III (Dam Inspection Checklist) continued **B. Upstream Slope** i. Vegetation (grass, trees weeds)? Grass ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? Minor erosion v. Settlement or cracks visible in slope? No C. Down Stream Slope i. Vegetation (grass, trees weeds)? Trees, briars, pine needles, tree debris could walk, uneven slope, no soft areas, rain ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? Yes. An eroded area several feet is adjacent to the toe of the dam and leads into the primary discharge outlet area. v. Settlement or cracks visible in slope? The slopes are uneven. vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, No. It was difficult to look for because of recent rain events. flow rate, and any turbidity or color within the flow: I did not find any areas that were softer than others. D. Primary Spillway i. Any visible deterioration of 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? N/A E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? Inspector was unable to get close enough to ii. Describe any deflection or damage observed to the pipe: Inspector was unable to get close enough to look closely at this area. iii. Visible condition of outlet channel: Mostly clear F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? No ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel? iv. Any visible deterioration of structure's crest?

vi If applicable	, any visible leakage below concrete spillway? N/A
и. п аррпсаыс	, any visible leakage below concrete spiliway:
	/Hazard Class Issues le changes immediately downstream of the dam that affects the hazard classification? No
	ction Plan (EAP) Action Plan provided by owner? No.
ii. Does EAP c	ontains emergency alert notification plan? If so, when was it last updated?
iii. Does EAP o	contain specific actions to take if the dam has failed or is near failure?
General comr	
General common Mr. Thompson me	nents and recommendations:  It the inspector for the inspection.
General common Mr. Thompson me	conclusions)  nents and recommendations:  It the inspector for the inspection.  Intain a grass cover across all aspects of the dam. Please work on removing the small excess vegetation
Mr. Thompson me Your goal is to ma from the back slop	conclusions)  nents and recommendations:  In the inspector for the inspection.  In the inspector for the inspection.
General common Mr. Thompson me Your goal is to ma from the back slop	conclusions)  nents and recommendations:  It the inspector for the inspection.  Intain a grass cover across all aspects of the dam. Please work on removing the small excess vegetation
General common Mr. Thompson me Your goal is to ma from the back slop	conclusions)  nents and recommendations:  In the inspector for the inspection.  In the inspector for the inspection.
General common Mr. Thompson me Your goal is to ma from the back slop	conclusions)  nents and recommendations:  In the inspector for the inspection.  In the inspector for the inspection.
General common Mr. Thompson me Your goal is to ma from the back slop	conclusions)  nents and recommendations:  In the inspector for the inspection.  In the inspector for the inspection.

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#### **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.

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- 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.
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- 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.

This section is self-explanatory and guides the inspector though 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.



Section I (Owner's Information)	
A. Dam Number: <b>D</b> <u>4558</u> & Hazard Class <u>Significant</u> B. Name of	of Dam: Maxwell Springs Dam
C. Inspection Date (11/13/20 14) & Time: 09:00 am D. Date of	Last Inspection: (11/14/2011_)
E. Location-County/City: Greenwood / Greenwood F. EQC Re	egional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Palmetto Resources LLC	
I. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office (864) 229 - 5211
K. Dom Owner's or Contact Person's mailing address:	Other ()
K. Dam Owner's or Contact Person's mailing address:	
Address 1 PO Box 428	
A delega a Q (anti-nod)	
Address 2 (optional)	p Code <u>29748</u>
City Greenwood , State SC Zip	
City Greenwood , State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	
City Greenwood , State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	p Code _29748
City Greenwood , State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor  d) Unsatisfactory	p Code _29748
City Greenwood , State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor  d) Unsatisfaction III (Dam Inspection Checklist)  A. Dam Crest	p Code _29748
City Greenwood , State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatisfaction III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)?	p Code _29748
City Greenwood , State SC Zip  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory	p Code _29748

### Section III (Dam Inspection Checklist) continued

iii. Any obvious alterations or repairs made?  iv. Erosion observed on upstream slope?  iv. Settlement or cracks visible in slope?  iv. Vegetation (grass, trees weeds)?  iv. Animal activity observed?  iv. Animal activity observed?  iv. Erosion observed on down stream slope?  iv. Erosion observed on down stream slope?  iv. Settlement or cracks visible in slope?  iv. Toe drains flowing?  iv. Toe drains flowing?  iv. Toe drains flowing?  iv. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  iv. Primary Spillway  i. Any visible deterioration of structure?  iii. Is there an obvious need to repair or replace trash rack?  iv. Is valve or gate present?  ves  iv. Is valve or gate present or repairs in vicinity out primary discharge pipe, tree	<ul><li>B. Upstream Slope</li><li>i. Vegetation (grass, trees weeds)? Grass</li></ul>
iv. Erosion observed on upstream slope?  v. Settlement or cracks visible in slope?  Down Stream Slope  i. Vegetation (grass, trees weeds)?  Grass, trees in vicinity out primary discharge pipe, trees along left groin, trees along backship in sight side  ii. Animal activity observed?  No.  Settlement or cracks visible in slope?  V. Settlement or cracks visible in slope?  Vi. Erosion observed on down stream slope?  Vi. Erosion observed on down stream slope?  Vi. Erosion observed? If so, describe location,  No.  Settlement or cracks visible in slope?  No.  Vi. Any seepage observed? If so, describe location,  No.  How sisble rust from the vantage point of the inspector, top of structure is no longer lev.  Pent of the spillway is not covered by a trash rack.  Iii. Is there an obvious need to repair or replace trash rack?  Pent of the spillway is not covered by a trash rack.  Iii. Any noticeable problems with debris?  Ves  E. Outlet Pipe  i. Any water visibly flowing or leaking outside of the discharge pipe?  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  Trees slorg right section of discharge channel?  No water is not flowing downstream, stagnanet and discolored water immediately downstream the coulted pipe  Auxiliary (Emergency) Spillway  ii. Noticeable obstructions to flow?  Trees slorg right section of discharge channel?  No liceable obstructions to flow?  Trees slorg right section of discharge channel?  No liceable obstructions to flow?  Trees slorg right section of discharge channel?  No liceable obstructions to flow?	ii. Animal activity observed? Yes. Please monitor closely and fix any problems that may occur due to the animals
iv. Erosion observed on upstream slope?  v. Settlement or cracks visible in slope?  Down Stream Slope  i. Vegetation (grass, trees weeds)?  Grass, trees in vicinity out primary discharge pipe, trees along left groin, trees along backship in sight side  ii. Animal activity observed?  No.  Settlement or cracks visible in slope?  V. Settlement or cracks visible in slope?  Vi. Erosion observed on down stream slope?  Vi. Erosion observed on down stream slope?  Vi. Erosion observed? If so, describe location,  No.  Settlement or cracks visible in slope?  No.  Vi. Any seepage observed? If so, describe location,  No.  How sisble rust from the vantage point of the inspector, top of structure is no longer lev.  Pent of the spillway is not covered by a trash rack.  Iii. Is there an obvious need to repair or replace trash rack?  Pent of the spillway is not covered by a trash rack.  Iii. Any noticeable problems with debris?  Ves  E. Outlet Pipe  i. Any water visibly flowing or leaking outside of the discharge pipe?  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  Trees slorg right section of discharge channel?  No water is not flowing downstream, stagnanet and discolored water immediately downstream the coulted pipe  Auxiliary (Emergency) Spillway  ii. Noticeable obstructions to flow?  Trees slorg right section of discharge channel?  No liceable obstructions to flow?  Trees slorg right section of discharge channel?  No liceable obstructions to flow?  Trees slorg right section of discharge channel?  No liceable obstructions to flow?	
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V. Settlement or cracks visible in slope?  No  Down Stream Slope  i. Vegetation (grass, trees weeds)?  Grass, trees in vicinity out primary discharge pipe, trees along left groin, trees along backst he right side  ii. Animal activity observed?  No  iii. Any obvious alterations or repairs made?  No  iv. Erosion observed on down stream slope?  v. Settlement or cracks visible in slope?  v. Settlement or cracks visible in slope?  vi. Toe drains flowing?  No  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  Definary Spillway  i. Any visible deterioration of structure?  No visible rust from the vantage point of the inspector, top of structure is no longer level.  Iii. Is there an obvious need to repair or replace trash rack?  Part of the spillway is not covered by a trash rack.  iii. Any noticeable problems with debris?  ves  Countet Pipe  i. Any water visibly flowing or leaking outside of the discharge pipe?  No  iii. Describe any deflection or damage observed to the pipe:  No  Water is not flowing downstream, stagnanet and discolored water immediately downstream.  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  Tooss along right section or discharge channel?  No  No  No  No  No  No  No  No  No  N	iv. Erosion observed on upstream slope? №
i. Vegetation (grass, trees weeds)?  ii. Animal activity observed?  iii. Any obvious alterations or repairs made?  iv. Erosion observed on down stream slope?  iv. Erosion observed on down stream slope?  iv. Settlement or cracks visible in slope?  iv. Toe drains flowing?  iv. Toe drains flowing?  iv. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  Primary Spillway  i. Any visible deterioration of structure?  ii. Is there an obvious need to repair or replace trash rack?  Part of the spillway is not covered by a trash rack.  iii. Any noticeable problems with debris?  iv. Is valve or gate present?  iii. Any mater visibly flowing or leaking outside of the discharge pipe?  iv. Is valve or gate present?  iv. Is valve or gate present.	· · · · · · · · · · · · · · · · · · ·
i. Vegetation (grass, trees weeds)?  Grass, trees in vicinity out primary discharge pipe, trees along left groin, trees along backshe right aide  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  vi. Toe drains flowing?  No  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  No visible deterioration of structure?  No visible rust from the vantage point of the inspector, top of structure is no longer lev.  Pent of the spillway is not covered by a trash rack.  Pent of the spillway is not covered by a trash rack.  Iii. Any noticeable problems with debris?  Loutlet Pipe  I. Any water visibly flowing or leaking outside of the discharge pipe?  No  Water is not flowing downstream, stagnanet and discolored water immediately downstread the outlet pipe:  No  Water is not flowing downstream, stagnanet and discolored water immediately downstread the outlet pipe  Auxiliary (Emergency) Spillway  I. Any noticeable deterioration in the approach or discharge channel?  No  Iii. Any noticeable deterioration in the approach or discharge channel?  No  Iii. Any noticeable deterioration in the approach or discharge channel?  No	v. Settlement or cracks visible in slope? No
iii. Any obvious alterations or repairs made?  iv. Erosion observed on down stream slope?  v. Settlement or cracks visible in slope?  vi. Toe drains flowing?  vi. Toe drains flowing?  vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  primary Spillway i. Any visible deterioration of structure?  No visible rust from the vantage point of the inspector, top of structure is no longer lev.  Part of the spillway is not covered by a trash rack.  iii. Is there an obvious need to repair or replace trash rack?  Part of the spillway is not covered by a trash rack.  iii. Any noticeable problems with debris?  ves  iv. Is valve or gate present?  ves  ii. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe?  iii. Visible condition of outlet channel:  water is not flowing downstream, stagnanet and discolored water immediately downstream of the outlet pipe  Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow?  Trees along right section of backslope  iii. Animal activity observed?  No  iii. Any noticeable deterioration in the approach or discharge channel?  No	C. Down Stream Slope i. Vegetation (grass, trees weeds)?  Grass, trees in vicinity out primary discharge pipe, trees along left groin, trees along backslother right side
iv. Erosion observed on down stream slope?  v. Settlement or cracks visible in slope?  vi. Toe drains flowing?  vi. Toe drains flowing?  vi. Toe drains flowing?  vi. Toe drains flowing?  vi. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  Primary Spillway  i. Any visible deterioration of structure?  No visible rust from the vantage point of the inspector, top of structure is no longer lev.  ii. Is there an obvious need to repair or replace trash rack?  Part of the spillway is not covered by a trash rack.  iii. Any noticeable problems with debris?  ves  iv. Is valve or gate present?  ves  ves  ves  ves  ves  ves  ves  ve	ii. Animal activity observed? No
iv. Erosion observed on down stream slope?  v. Settlement or cracks visible in slope?  vi. Toe drains flowing?  vi. Toe drains flowing?  vi. Toe drains flowing?  vi. Toe drains flowing?  vi. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  Primary Spillway  i. Any visible deterioration of structure?  No visible rust from the vantage point of the inspector, top of structure is no longer lev.  ii. Is there an obvious need to repair or replace trash rack?  Part of the spillway is not covered by a trash rack.  iii. Any noticeable problems with debris?  ves  iv. Is valve or gate present?  ves  ves  ves  ves  ves  ves  ves  ve	III. Any aboling alterations or repairs made?
vi. Toe drains flowing?  No line drains flowing bloom to the inspector, top of structure is no longer lever the spillway is not covered by a trash rack.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  Part of the spillway is not covered by a trash rack.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  Part of the spillway is not covered by a trash rack.  Part of the spillway is not covered by a trash rack.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  Part of the spillway is not covered by a trash rack.  Part of the spillway is not covered by a trash rack.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  No line drains from the vantage point of the inspector, top of structure is no longer lever.  No line drains from the vantage	III. Any obvious alterations or repairs made?
vii. Toe drains flowing?  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 visible rust from the vantage point of the inspector, top of structure is no longer level.  No visible rust from the vantage point of the inspector, top of structure is no longer level.  Part of the spillway is not covered by a trash rack.	iv. Erosion observed on down stream slope? No
vii. Toe drains flowing?  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 visible rust from the vantage point of the inspector, top of structure is no longer level.  No visible rust from the vantage point of the inspector, top of structure is no longer level.  Part of the spillway is not covered by a trash rack.	v. Sattlement or greeks visible in along?
vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  P. Primary Spillway i. Any visible deterioration of structure?  No visible rust from the vantage point of the inspector, top of structure is no longer levial. It is there an obvious need to repair or replace trash rack?  Part of the spillway is not covered by a trash rack.	v. Settlement of cracks visible in slope?
vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:  P. Primary Spillway i. Any visible deterioration of structure?  No visible rust from the vantage point of the inspector, top of structure is no longer levial. It is there an obvious need to repair or replace trash rack?  Part of the spillway is not covered by a trash rack.	vi. Toe drains flowing? N/A
Frimary Spillway i. Any visible deterioration of structure? No visible rust from the vantage point of the inspector, top of structure is no longer level.  No visible rust from the vantage point of the inspector, top of structure is no longer level.  Part of the spillway is not covered by a trash rack.  Part of the spillway is not covered by a trash rack.  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?  III. Describe any deflection or damage observed to the pipe:  No  Water is not flowing downstream, stagnanet and discolored water immediately downstream the outlet pipe  Auxiliary (Emergency) Spillway I. Noticeable obstructions to flow?  Trees along right section of backslope  No  III. Any noticeable deterioration in the approach or discharge channel?  No	<u> </u>
ii. Is there an obvious need to repair or replace trash rack?  Part of the spillway is not covered by a trash rack.  No  Water spillway is not covered by a trash rack.  No  Water is not flowing downstream, stagnanet and discolored water immediately downstream that covered by a trash rack.  Part of the spillway is not covered by a trash rack.	vii. Any seepage observed? If so, describe location, flow rate, and any turbidity or color within the flow:
iii. Any noticeable problems with debris?  iv. Is valve or gate present?  No  Water is not flowing downstream, stagnanet and discolored water immediately downstream. It is not flowing downstream. It is not flow in the approach of backslope  iv. Is valve or gate present?  No  No  Iii. Visible condition of outlet channel:  Water is not flowing downstream, stagnanet and discolored water immediately downstream. It is not flowing downstream, stagnanet and discolored water immediately downstream. It is not flowing downstream, stagnanet and discolored water immediately downstream. It is not flowing downstream, stagnanet and discolored water immediately downstream. It is not flowing downstream, stagnanet and discolored water immediately downstream. It is not flowing downstream, stagnanet and discolored water immediately downstream. It is not flowing downstream, stagnanet and discolored water immediately downstream. It is not flowing downstream. It	ii le there are abrieve mond to remain as replace treats read?
iv. Is valve or gate present? Yes  E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? ii. Describe any deflection or damage observed to the pipe:  iii. Visible condition of outlet channel:  Water is not flowing downstream, stagnanet and discolored water immediately downstrest of the outlet pipe  Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow?  Trees along right section of backslope  iii. Animal activity observed?  No  No  No	
ii. Describe any deflection or damage observed to the pipe:    No   No	iii. Any noticeable problems with debris? Yes
ii. Describe any deflection or damage observed to the pipe:    No   No	
ii. Describe any deflection or damage observed to the pipe:  iii. Visible condition of outlet channel:  Water is not flowing downstream, stagnanet and discolored water immediately downstream in the outlet pipe  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  Trees along right section of backslope  iii. Any noticeable deterioration in the approach or discharge channel?  No	iv. Is valve or gate present? Yes
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iii. Visible condition of outlet channel:  Water is not flowing downstream, stagnanet and discolored water immediately downstream  of the outlet pipe  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  Trees along right section of backslope  iii. Animal activity observed?  No  No  No  No  No	i. Any water visibly flowing or looking outside of the discharge pine?
iii. Visible condition of outlet channel:  Water is not flowing downstream, stagnanet and discolored water immediately downstream  of the outlet pipe  Auxiliary (Emergency) Spillway  i. Noticeable obstructions to flow?  Trees along right section of backslope  iii. Animal activity observed?  No  No  No  No  No	
ii. Any noticeable deterioration in the approach or discharge channel?  Nation of the outlet pipe  Trees along right section of backslope  Trees along right section of backslope  No	ii. Describe any deflection or damage observed to the pipe:
ii. Any noticeable deterioration in the approach or discharge channel?  Nation of the outlet pipe  Trees along right section of backslope  Trees along right section of backslope  No	*** N'alkla and distant of author absence.
i. Noticeable obstructions to flow?  Trees along right section of backslope  Trees along right section of backslope  Trees along right section of backslope  III. Animal activity observed?  No  No  No	Water is not flowing downstream, stagnanet and discolored water immediately downstream
ii. Noticeable obstructions to flow?  Trees along right section of backslope  iii. Animal activity observed?  No  No  iii. Any noticeable deterioration in the approach or discharge channel?  No	of the outlet pipe
iii. Any noticeable deterioration in the approach or discharge channel? No	i National la abatroptione to flavo
iii. Any noticeable deterioration in the approach or discharge channel? No	ii Animal activity observed?
	II. Allimal activity observed: No
	iii Any noticeable deterioration in the approach or discharge channel?
iv. Any visible deterioration of structure's crest? No	III. Any nonceable deterioration in the approach of discharge Charlier?
11. Ally violate deterioration of structure of order. No	iv Any visible deterioration of structure's crest?
	No. 7 to Side deterior di didetale 3 elegt:

vi. If applicable, ar	ny visible leakage below concrete spillway?	
, ,		
	azard Class Issues changes immediately downstream of the dam that affects the hazard cla	ssification? No
. Emergency Action	on Plan (EAP) on Plan provided by owner? No. One will be mailed with this report	
,		
ii. Does EAP cont	ains emergency alert notification plan? If so, when was it last updated?	
iii. Does EAP conf	tain specific actions to take if the dam has failed or is near failure?	
General commer	nts and recommendations:	
General commer		o in the vicinity of
General commer	nts and recommendations:	
General commer Your goal is to mainta the primary outlet, the	nts and recommendations: ain a grass cover across all aspects of the dam. The small trees that are growing up	ey get any larger.
General commer Your goal is to mainta the primary outlet, the	nts and recommendations: ain a grass cover across all aspects of the dam. The small trees that are growing up the left groin, and across the right side of the backslope need to be removed before the	ey get any larger.
General commer Your goal is to mainta the primary outlet, the The water discharging downstream.	nts and recommendations: ain a grass cover across all aspects of the dam. The small trees that are growing up the left groin, and across the right side of the backslope need to be removed before the	ey get any larger. o flow freely
General commer Your goal is to mainta the primary outlet, the The water discharging downstream.	nts and recommendations: ain a grass cover across all aspects of the dam. The small trees that are growing up the left groin, and across the right side of the backslope need to be removed before the g from the outlet is stagnant immediately below the pipe. Water needs to be able to removed from the top of the trash rack. Trash rack needs to cover the entire spillway opening	ey get any larger. o flow freely
General commer Your goal is to mainta the primary outlet, the The water discharging downstream. The debris needs to be	nts and recommendations: ain a grass cover across all aspects of the dam. The small trees that are growing up the left groin, and across the right side of the backslope need to be removed before the g from the outlet is stagnant immediately below the pipe. Water needs to be able to removed from the top of the trash rack. Trash rack needs to cover the entire spillway opening	ey get any larger. o flow freely
General commer Your goal is to mainta the primary outlet, the The water discharging downstream. The debris needs to be	nts and recommendations: ain a grass cover across all aspects of the dam. The small trees that are growing up the left groin, and across the right side of the backslope need to be removed before the g from the outlet is stagnant immediately below the pipe. Water needs to be able to removed from the top of the trash rack. Trash rack needs to cover the entire spillway opening	ey get any larger. o flow freely
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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.

#### **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.

- 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.

This section is self-explanatory and guides the inspector though 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.



Section I (Owner's Information)	
A. Dam Number: <b>D</b> <u>4779</u> & Hazard Class <u>Significant</u> B. Name of	of Dam: Gwalia Dam
C. Inspection Date (01/29/20 15) & Time: 3:15 PM D. Date of	f Last Inspection: (03 /16 / 2012 _)
E. Location-County/City: McCormick / Plum Branch F. EQC R	egional Office: Greenwood
G. Inspector's Name: Stephanie Hackett	
H. Owner's Name: Mr. Andy Owings	
I. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ()
	Office (864) 543-4109
K. Dam Owner's or Contact Person's mailing address:	Other ()
Address 1 117 Waterford Drive	
Address 2 (optional)	
	ip Code _2 <u>9666</u>
City Ninety Six , State SC Zi	
City Ninety Six , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	
City Ninety Six , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):	ip Code _29666
City Ninety Six , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory  b) Fair  c) Poor  d) Unsatis	sfactory e) Not Rated 🗹
City Ninety Six , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatistics  Section III (Dam Inspection Checklist)  A. Dam Crest	sfactory e) Not Rated 🗹
City Ninety Six , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatist Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? grass, vehicular paths, exposed soil, exposed	sfactory e) Not Rated 🗹
City Ninety Six , State SC Zi  Section II (Dam Condition)  General Condition Assessment (Select one of the following):  a) Satisfactory b) Fair c) Poor d) Unsatistics  Section III (Dam Inspection Checklist)  A. Dam Crest i. Vegetation (grass, trees weeds)? grass, vehicular paths, exposed soil, exposed  ii. Animal activity observed? Yes	sfactory e) Not Rated 🗹

### Section III (Dam Inspection Checklist) continued **B.** Upstream Slope i. Vegetation (grass, trees weeds)? Weeds, exposed soil, exposed rock, a few trees ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? v. Settlement or cracks visible in slope? No. C. Down Stream Slope i. Vegetation (grass, trees weeds)? Trees, weeds, exposed soil, briars, Thicker trees/briars farther down the slope. The unwanted vegetation made it difficult to inspect all aspects of the back slope of the dam ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? No. Entire down stream slope could not be inspected. v. Settlement or cracks visible in slope? Yes. Entire down stream slope could not be inspected. vi. Toe drains flowing? vii. Any seepage observed? If so, describe location, Approximately 5-15 feet to the right of the primary outlet there was a water flow rate, and any turbidity or color within the flow: puddle and water path near the toe of the dam. It did not appear to be flowing. Could not trace the path to the origin due to the unwanted thick vegetation. D. Primary Spillway i. Any visible deterioration of structure? Siphon system needs to be installed as designed (air line needs to be reattached and set ii. Is there an obvious need to repair or replace trash rack? If you are having problems with animals (or other items) getting into the lines, you can place a screen over the end of the lines. iii. Any noticeable problems with debris? iv. Is valve or gate present? No E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? Could not get close enough to inspect this. ii. Describe any deflection or damage observed to the pipe: Could not get close enough to inspect this. iii. Visible condition of outlet channel: Could not get close enough to inspect this. F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? There are two pipes going through the dam in the right emergency spillway. The dirt and vegetation needs to be cleaned out in front of the pipes (upstream side). Ensure water can flow easily into, through, and out of the pipes. ii. Animal activity observed? iii. Any noticeable deterioration in the approach or discharge channel?

iv. Any visible deterioration of structure's crest?

vi. If applicable, any visible leakage below	concrete spillway?
H. Downstream/Hazard Class Issues	
	Instream of the dam that affects the hazard classification? No
. Emergency Action Plan (EAP)	- N
i. Emergency Action Plan provided by own	er? No.
ii. Does EAP contains emergency alert not	ification plan? If so, when was it last updated?
iii. Does EAP contain specific actions to tal	ke if the dam has failed or is near failure?
	the excess vegetation on the slopes of the dam. Your goal is to maintain
A proper inspection could not be performed due to a grass cover across all aspects of the structure.	the excess vegetation on the slopes of the dam. Your goal is to maintain The excess vegetation needs to be removed from the structure.
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A proper inspection could not be performed due to a grass cover across all aspects of the structure.  Closely monitor the seepage on the backslope of the structure.	the excess vegetation on the slopes of the dam. Your goal is to maintain The excess vegetation needs to be removed from the structure.
A proper inspection could not be performed due to a grass cover across all aspects of the structure.  Closely monitor the seepage on the backslope of the structure.	the excess vegetation on the slopes of the dam. Your goal is to maintain The excess vegetation needs to be removed from the structure.
A proper inspection could not be performed due to a grass cover across all aspects of the structure.  Closely monitor the seepage on the backslope of the structure.	the excess vegetation on the slopes of the dam. Your goal is to maintain The excess vegetation needs to be removed from the structure.
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A proper inspection could not be performed due to a grass cover across all aspects of the structure.  Closely monitor the seepage on the backslope of t seepage, color of seepage, etc).	the excess vegetation on the slopes of the dam. Your goal is to maintain.  The excess vegetation needs to be removed from the structure.  he dam. Call the Department if you notice any changes (amount of
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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.

#### **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.

- 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.

This section is self-explanatory and guides the inspector though 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.



# 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: <b>D</b> <u>4894</u> & Hazard Class <u>C2</u>	B. Name of Dam: Lanier Pond Dam
C. Inspection Date (01/27/20 14) & Time: about 1:30 PM	D. Date of Last Inspection: (//)
E. Location-County/City: Greenwood / Greenwood	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie Hackett, John Poole	
H. Owner's Name: Willie Lanier	
I. Contact Person (if different from above):	
J. Dam Owner's or Contact Person's Phone Numbers:	Home ( <u>864_)</u> <u>992 5624</u> _
	Office ()
K. Dam Owner's or Contact Person's mailing address:	Other ()
•	
Address 2 (optional)	
, ,	_SC Zip Code _29648
Section II (Dam Condition)	
General Condition Assessment (Select one of the follo	wing):
a) Satisfactory b) Fair c) Poor	d) Unsatisfactory e) Not Rated
Section III (Dam Inspection Checklist)	
A. Dam Crest i. Vegetation (grass, trees weeds)? dirt, roots	
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? None of	bserved
DHEC 2604 (Rev 11/2011)	

### Section III (Dam Inspection Checklist) continued **B.** Upstream Slope i. Vegetation (grass, trees weeds)? Trees, weeds ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on upstream slope? v. Settlement or cracks visible in slope? No C. Down Stream Slope i. Vegetation (grass, trees weeds)? Trees, leaves, brush, briars ii. Animal activity observed? iii. Any obvious alterations or repairs made? iv. Erosion observed on down stream slope? yes 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: D. Primary Spillway i. Any visible deterioration of structure? Primary spillway appears to be adjacent to the phone pole that is in the water on the right side of the dam based on the action of the water in this area. ii. Is there an obvious need to repair or replace trash rack? A trash rack should be installed iii. Any noticeable problems with debris? Primary spillway inlet may need to be cleared off iv. Is valve or gate present? Inspectors did not see one E. Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? ii. Describe any deflection or damage observed to the pipe: None observed - but difficult to see due to vegetation surrounding it iii. Visible condition of outlet channel: F. Auxiliary (Emergency) Spillway i. Noticeable obstructions to flow? Right emergency spillway - not a clear path - drops off on the back slope causing a large amount of ii. Animal activity observed? Dead dog in the eroded part of the spillway iii. Any noticeable deterioration in the approach or discharge channel? Yes - on the downstream side there is now a gully at least five (5) feet deep iv. Any visible deterioration of structure's crest?

vi. If applicable, any visible leakag	e below concrete spillway?
H. Downstream/Hazard Class Iss	ues
i. Any noticeable changes immedia	ately downstream of the dam that affects the hazard classification?
This dam was not previously on inventor	y. It has been added as a Significant Hazard dam (C2)
. Emergency Action Plan (EAP)	
i. Emergency Action Plan provided	d by owner? No
ii. Does EAP contains emergency	alert notification plan? If so, when was it last updated?
iii Does EAP contain specific activ	ons to take if the dam has failed or is near failure?
Section IV (Conclusions)  General comments and recomm	
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