) H E C	Regulated Da	spection Report for South Carolina Ims and Impoundment Structures Regulations R.72-1 through R.72-9
Section I (Owner's Info	rmation)	
A. Dam Number: D <u>2986</u> 8	& Hazard Class ^{High}	B. Name of Dam: Duncan Creek WCD Dam 2
C. Inspection Date (<u>12/17/2</u>	0 <u>1</u> <u>4</u>) & Time: <u>10:20 AM</u>	D. Date of Last Inspection: (//)
E. Location-County/City: Laure	ns / Clinton	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie	Hackett, Samuel Madden	
H. Owner's Name: Robert Blakely		
I. Contact Person (if different	from above):	
J. Dam Owner's or Contact P	erson's Phone Numbers:	Home ()
		Office ()
K. Dam Owner's or Contact F Address 1 2150 Hwy 308	-	Other (<u>864</u>) <u>833</u> - <u>3804</u>
Address 2 (optional)		
City Clinton	. Stat	e_ <u>SC</u> Zip Code _29325
Section II (Dam Condit General Condition Assess a) Satisfactory	nent (Select one of the follow) Fair 🖌 c) Poor	
A. Dam Crest i. Vegetation (grass, trees)	veeds)? Grass	
ii. Animal activity observed	No No	
iii. Any obvious alteration or	repairs made? No	
iv. Erosion noticed on crest	? <u>No</u>	
v. Any visible settlement, m that the crest of the dam is no longer flat		ears that there is settling on the crest of the dam. It also appears

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

i. 1	Vegetation (grass,	trees weeds)?	Majority of the upstream slope was grass.	Majority of upstream slope is void of
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iii. Any obvious alterations or repairs made? No iiii. Any obvious alterations or repairs made? No iv. Erosion observed on upstream slope? No v. Settlement or cracks visible in slope? Slope is uneven. Also appears that heavy equipment (most likely to bush hug the structures in line with the spliway ppe. Soft areas. c. Down Stream Slope i. Vegetation (grass, trees weeds)? Grass, some brians ii. Animal activity observed? Yes iii. Any obvious alterations or repairs made? No iv. Erosion observed on down stream slope? No v. Settlement or cracks visible in slope? Uneven slopes. Soft areas. v. Settlement or cracks visible in slope? No v. Settlement or cracks visible in slope? Uneven slopes. Soft areas. v. Terosion observed? NA vi. Toe drains flowing? NA vi. Toe drains flowing? NA vii. Any seepage observed? If so, describe location, No file. Any noticeable problems with debris? Yes. Please remove debris from around the intake area. iv. Is valve or gate present? Handle was visible. E Outlet Pipe i. Any water visibly flowing or leaking outside of the discharge pipe? None	unwanted vegetation
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ii. Animal activity observed?	National In atomation of flour
	ii. Animal activity observed? No
iii. Any noticeable deterioration in the approach or discharge channel? No	
	iii. Any noticeable deterioration in the approach or discharge channel? No
iv. Any visible deterioration of structure's crest?	iv. Any visible deterioration of structure's crest?
C 2604 (Rev 11/2011)	C 2604 (Rev 11/2011)

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:

Please continue to maintain a grass cover across all aspects of the structure. Please remove the brush that is growing up in

vicinity of the primary outlet.

Please closely monitor the slopes of the dam. Please contact the department if you notice any changes.

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.

DHEC 2604 (Rev 11/2011)

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.

DHEC 2604 (Rev. 11/2011)

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.



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

December 22, 2014

Robert E Blakely 2150 Hwy 308 Clinton, SC 29325 Certified Mail: 7014 18200001 9331 7003

NRCS – Laurens Office Attn: Lisa Goode 221 W. Laurens Street, Suite C Laurens, SC 29360 Certified Mail: 7014 1820 0001 9331 7010

RE: Routine inspection of Dam D-2986 Duncan Creek WCD Dam 2 Laurens County

Dear Mr. Blakely and Ms. Goode:

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 December 17, 2014, the Department conducted its routine inspection of the "Class 1 High Hazard" dam listed above.

Thank you for the upkeep of the dam. Since the dam was void of excess vegetation, it was easy to inspect. Please closely monitor the settlement that is occurring near the crest in the vicinity of the spillway pipe on the front and back slopes of the dam. If you notice any changes, please contact Department. Please refer to the attached inspection report for details related to the inspection.

I am including 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 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. The Department does not have an EAP on file for this structure. A copy of the EAP must be received by the Department by April 01, 2015.

I am also enclosing 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.

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,

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)

Section I (Owner's Information) A. Dam Number: D _3022 & Hazard Class C1 B. Name of Dam: ##AVFRDAM WARRER CHEEK WOO 1M C. Inspection Date (11/20/20 13) & Time: 0034 AM D. Date of Last Inspection: (12/14/2011_) E. Location-County/City: HURENS / GRAY COURT F. EQC Regional Office: GREENWOOD G. Inspector's Name: STEPHANE HACKETT, HANNAH VINSON F. EQC Regional Office: GREENWOOD H. Owner's Name: STEPHANE HACKETT, HANNAH VINSON F. EQC Regional Office: GREENWOOD I. Contact Person (if different from above): SAM WADDELL/HAROLD MCCUNTOCK	D H E C	Regulated D	aspection Report for South Carolina ams and Impoundment Structures Regulations R.72-1 through R.72-9
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G. Inspector's Name: STEPHANIE HACKETT, HANNAH VINSON H. Owner's Name: BVRDAM-WARRIOR CK WCD I. Contact Person (if different from above): SAM WADDELL / HAROLD MCCLINTOCK J. Dam Owner's or Contact Person's Phone Numbers: Home (864_) 8765148_ Office () Office () Other (_)	C. Inspection Date (<u>11/20</u> /20) <u>1</u> 3) & Time: <u>09:34 AM</u>	D. Date of Last Inspection: (<u>12/14/2011</u>)
H. Owner's Name: BVRDAM-WARRIOR CK WCD I. Contact Person (if different from above): <u>SAM WADDELL / HAROLD MCCLINTOCK</u> J. Dam Owner's or Contact Person's Phone Numbers: Home (<u>864</u> , <u>876</u> , - <u>5148</u> , Office (), Diffice (), Office (), M. Dam Owner's or Contact Person's mailing address: Other (), Address 1 <u>104 ASHLEY LANE (MR. MCCLINTOCK)</u> Address 2 (optional)	E. Location-County/City: LAUR	ENS / GRAY COURT	F. EQC Regional Office: <u>GREENWOOD</u>
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J. Dam Owner's or Contact Person's Phone Numbers: Home (<u>864</u>) <u>876</u> 5 <u>148</u> Office () Office () Other () Other () K. Dam Owner's or Contact Person's mailing address: Address 1 <u>104 ASHLEY LANE (MR. MCCLINTOCK)</u> Address 2 (optional)	H. Owner's Name: BVRDAM-WA	RIOR CK WCD	
Office () Other () K. Dam Owner's or Contact Person's mailing address: Address 1 104 ASHLEY LANE (MR. MCCLINTOCK) Address 2 (optional) City _LAURENS, State SCZip Code 29630 City _LAURENS, State SCZip Code 29630 Section II (Dam Condition) Section II (Dam Condition) b) Fair o) Poor d) Unsatisfactory e) Not Rated composition Assessment (Select one of the following): a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated composition Assessment (Select one of the following): b) Fair c) Poor d) Unsatisfactory e) Not Rated composition II (Dam Inspection Checklist) ADam Crest i. Vegetation (grass, trees weeds)? <u>Crest was moved day before inspection. Difficult to tell if there was a thick layer of grass due to the debris (weeds, briars, etc) on the crest i. Animal activity observed? No iii. Any obvious alteration or repairs made? <u>None observed</u> iv. Erosion noticed on crest? <u>None observed</u> v. Any visible settlement, misalignment or cracks? <u>A section of the crest appeared lower (possible setting?) than</u></u>	I. Contact Person (if different	from above): <u>SAM WADDELL / H</u>	IAROLD MCCLINTOCK
Cher	J. Dam Owner's or Contact P	erson's Phone Numbers:	Home (<u>864_) 876_</u> - <u>5148_</u>
K. Dam Owner's or Contact Person's mailing address: Address 1 <u>104 ASHLEY LANE (MR. MCCLINTOCK)</u> Address 2 (optional) City <u>LAURENS</u> , State <u>SC</u> Zip Code <u>29630</u> <u>Section II (Dam Condition)</u> <u>General Condition Assessment (Select one of the following):</u> a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated <u>()</u> <u>Section III (Dam Inspection Checklist)</u> <u>A Dam Crest</u> i. Vegetation (grass, trees weeds)? <u>Crest was moved day before inspection. Difficult to tell if there was a thick layer of grass due</u> to the debris (weeds, briars, etc) on the crest ii. Any obvious alteration or repairs made? <u>None observed</u> iv. Erosion noticed on crest? <u>None observed</u> v. Any visible settlement, misalignment or cracks? <u>A section of the crest appeared lower (possible settling?) than</u>			Office ()
Address 2 (optional) City LAURENS , State SC_ Zip Code 29630 Section II (Dam Condition) General Condition Assessment (Select one of the following): a) Satisfactory b) Fair b) Fair c) Poor d) Unsatisfactory e) Not Rated Section III (Dam Inspection Checklist) Animal activity observed? No ii. Animal activity observed? No iii. Any obvious alteration or repairs made? None observed iv. Erosion noticed on crest? None observed v. Any visible settlement, misalignment or cracks? A section of the crest appeared lower (possible settling?) than	K. Dam Owner's or Contact F	erson's mailing address:	Other ()
City LAURENS , State SC	Address 1 104 ASHLEY LANE	(MR. MCCLINTOCK)	
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iv. Erosion noticed on crest? None observed v. Any visible settlement, misalignment or cracks? A section of the crest appeared lower (possible settling?) than	i. Vegetation (grass, trees to the debris (weeds, briars, etc) on the c	rest	efore inspection. Difficult to tell if there was a thick layer of grass due
v. Any visible settlement, misalignment or cracks? A section of the crest appeared lower (possible settling?) than	iii. Any obvious alteration or	repairs made? None observ	ed
	iv. Erosion noticed on crest	? None observed	
the rest of the crest on the left side of the structure	-	-	ction of the crest appeared lower (possible settling?) than

Section III (Dam Inspection Checklist) continued

 B. Upstream Slope

 i. Vegetation (grass, trees weeds)?

Weeds, briars, saplings

seepage observed e, and any turbidity	s or repairs made' pstream slope? ible in slope? weeds)? weeds)? weeds)? weeds)? weeds)? weeds, t d? Could not inspect s or repairs made' pwn stream slope? pould not inspect due to th ? If so, describe I	No Could not inspected uld not inspect of the aburdance of the abundance o	act due to the abundance of due to the abundance of indance of unwanted ve mps of trees noted in p inspect due to the abundance of	ce of unwanted vegetation of unwanted vegetation egetation revious inspections have been removed. Indance of unwanted vegetation of unwanted vegetation
sion observed on up ement or cracks vis Stream Slope etation (grass, trees hal activity observed obvious alterations sion observed on do ement or cracks vis drains flowing? <u>c</u> seepage observed e, and any turbidity	ible in slope? <u>co</u> weeds)? <u>Weeds, t</u> d? <u>Could not inspect</u> or repairs made? wwn stream slope? ible in slope? <u>Co</u> ould not inspect due to th ? If so, describe I	Could not inspect of our of the abundance of the abundanc	due to the abundance of indance of unwanted ve mps of trees noted in p inspect due to the abundance of	egetation revious inspections have been removed.
ement or cracks vis Stream Slope etation (grass, trees hal activity observe obvious alterations sion observed on do ement or cracks vis drains flowing? <u>c</u> seepage observed e, and any turbidity	ible in slope? <u>Co</u> weeds)? <u>Weeds, t</u> d? <u>Could not inspect</u> s or repairs made' own stream slope' ible in slope? <u>Co</u> ould not inspect due to th ? If so, describe I	uld not inspect of oriars, saplings due to the abur? Small clur? Could not uld not inspect of the abundance	due to the abundance of indance of unwanted ve mps of trees noted in p inspect due to the abundance of	egetation revious inspections have been removed.
Stream Slope etation (grass, trees nal activity observed obvious alterations sion observed on do ement or cracks vis drains flowing?	weeds)? <u>Weeds, t</u> d? <u>Could not inspect</u> s or repairs made' own stream slope' ible in slope? <u>Co</u> ould not inspect due to th ? If so, describe I	due to the abur <u>Small clur</u> <u>Could not</u> uld not inspect of a abundance of	ndance of unwanted ve mps of trees noted in p inspect due to the abu	revious inspections have been removed.
etation (grass, trees nal activity observe obvious alterations ion observed on do ement or cracks vis drains flowing? seepage observed e, and any turbidity	d? <u>Could not inspect</u> s or repairs made' own stream slope' ible in slope? <u>Co</u> ould not inspect due to th ? If so, describe I	due to the abur	mps of trees noted in p inspect due to the abu due to the abundance of	revious inspections have been removed.
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hal activity observe obvious alterations ion observed on do ement or cracks vis drains flowing? seepage observed e, and any turbidity	d? <u>Could not inspect</u> s or repairs made' own stream slope' ible in slope? <u>Co</u> ould not inspect due to th ? If so, describe I	due to the abur	mps of trees noted in p inspect due to the abu due to the abundance of	revious inspections have been removed.
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drains flowing? <u>c</u> seepage observed e, and any turbidity	ould not inspect due to th ? If so, describe I	e abundance of		of unwanted vegetation
seepage observec e, and any turbidity	? If so, describe I		f unwanted vegetation	
e, and any turbidity		ocation.		
	or color within the	•••••••	Jnable to look for seep	age due to the abundance of unwanted vegeta
• ""		e flow:		
ry Spillway				
isible deterioration	of structure? Not	ne observed		
re an obvious nee	to repair or repla	oco trach ra	ack2	
			NO NO	
noticeable problem	s with debris?	None observed		
	-			
	0			
aive or gate present	Yes. Handle is not o	n the valve ster	m - being stored at Mr.	Martin's house
t Pine				
-	or leaking outside	of the dis	charge nine?	
ater visibly nowing	or reaking outside		-	Unable to look at the outlet pipe due to the
of unwanted vegetation.				
ribe any deflection	or damage obser	ved to the p	pipe:	Unable to look at the outlet pipe due to the
of unwanted vagatation			-	
-	at channel:			
	From From	the crest it looke	ed clear but unable to i	nspect properly due to the abundance of unwar
ary (Emergency) S	Spillway			
	- ์ปอน ()	spect due to the	e abundance of unwar	ted vegetation
	•			
al activity observed	Could not inspect	due to the abur	ndance of unwanted ve	getation
noticeable deteriors	tion in the approx	ach or diech	harde channel?	0.11.12.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.2.
			arge charmer?	Could not inspect due to the abundance of
egetation				
visible deterioration	of structure's cre	st? None of	bserved (does not cro	ss the crest)
	noticeable problem alve or gate present et Pipe water visibly flowing of unwanted vegetation. cribe any deflection of unwanted vegetation. ble condition of outle iary (Emergency) S eable obstructions to nal activity observed noticeable deteriora	noticeable problems with debris? alve or gate present? Yes. Handle is not of et Pipe water visibly flowing or leaking outside of unwanted vegetation. cribe any deflection or damage obser of unwanted vegetation. ble condition of outlet channel: <u>From</u> iary (Emergency) Spillway eable obstructions to flow? <u>Could not inspect</u> noticeable deterioration in the approa	noticeable problems with debris? <u>None observed</u> alve or gate present? <u>Yes. Handle is not on the valve ster</u> et Pipe water visibly flowing or leaking outside of the dis e of unwanted vegetation. cribe any deflection or damage observed to the e of unwanted vegetation. ble condition of outlet channel: <u>From the crest it look</u> iary (Emergency) Spillway eable obstructions to flow? <u>Could not inspect due to the</u> hal activity observed? <u>Could not inspect due to the abuil</u> noticeable deterioration in the approach or discle regetation visible deterioration of structure's crest? <u>None of</u>	alve or gate present? Yes. Handle is not on the valve stem - being stored at Mr. et Pipe water visibly flowing or leaking outside of the discharge pipe? e of unwanted vegetation. cribe any deflection or damage observed to the pipe: e of unwanted vegetation. ble condition of outlet channel: From the crest it looked clear but unable to i iary (Emergency) Spillway eable obstructions to flow? Could not inspect due to the abundance of unwanted vegetation hal activity observed? Could not inspect due to the abundance of unwanted vegetation visible deterioration in the approach or discharge channel? regetation None observed (does not cro

F. Auxiliary (Emergency) Spillway continued

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

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

H. Downstream/Hazard Class Issues

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

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner?

No

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:

Inspectors could not perform their routine inspection due to the abundance of unwanted vegetation on the slopes of the

dam. Your goal should be to maintain a well-established stand of grass on the structure.

In addition, the dam needs to be mowed on a regular basis.

You should be performing routine inspections of the dam to look for problems as they develop.

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.

DHEC 2604 (Rev 11/2011)

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.

DHEC 2604 (Rev. 11/2011)

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.



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

> Certified Mail 7012 1010 0001 4629 7294

November 21, 2013

NRCS District Office – Laurens Attn: Harold McClintock 104 Ashley Lane Laurens, SC 29360

Re: Re-inspection of Dam D-3022 Beaverdam Warrier Creek WCD 1M Laurens County

Dear Mr. McClintock:

On Wednesday, November 20, 2013 the South Carolina Department of Health and Environmental Control (DHEC) conducted its routine inspection of the Beaverdam Warrier Creek WCD 1M Dam in Laurens County. I would like to thank Mr. Waddell for attending the inspection.

The dam could not be inspected properly due to the abundance of briars and unwanted vegetation on the upstream and downstream slopes as well as in the emergency spillway. If the dam is not inspectable at the time of the next inspection, the manner may be referred to our enforcement section since the Department was not able to inspect the dam in 2009 or 2011 either. The Department attempts to schedule the dam inspection at least 30 days in advance to allow time to mow the structure so that the Department can perform their regular routine inspection.

Your goal is to maintain an established stand of grass on all sections of the dam (crest, upstream slope, downstream slope, and the emergency spillway). The dam should also be inspected on a regular basis by the owner or a representative of the owner to look for changes in the structure or problems if they begin to develop.

I am sending you a blank copy of an Emergency Notification Plan. Please fill the form out, send a copy to me, and keep a copy for yourself. The plan needs to be reviewed before significant rains and storms (e.g. hurricanes). If you have an Emergency Notification Plan (other than the one the Department has provided in the past), please ensure it is up-to-date, contains at least the information provided in the Department's form 2606 dated 11/2012, and submit a copy to the local office.

I also am including a "Notification of Ownership Change" with this inspection letter. 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.

The dam will be re-inspected in two 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.

Our local address is 1736 S Main Street, Greenwood, SC 29646.

Thank you,

Stephanie Hackett, P.E. District Engineer Region I Greenwood EQC

Enclosures

CC: Sam Waddell, Owner Representative

DHEC PROMOTE PROTECT PROSPER	Preliminary Inspection Report for South Carolina Regulated Dams and Impoundment Structures Regulations R.72-1 through R.72-9
Section I (Owner's Info	rmation)
A. Dam Number: D <u>3042</u> 8	Hazard Class High B. Name of Dam: Sauer Pond Dam
C. Inspection Date (<u>02/05</u> /20	D. Date of Last Inspection: (<u>01/02/2013</u>)
E. Location-County/City: Abbev	Ile / Donalds F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie	Hackett
H. Owner's Name: CF Sauer Com	pany
I. Contact Person (if different	from above): <u>William Lein (PO Box 546, Honea Path, SC 29654)</u>
J. Dam Owner's or Contact P	erson's Phone Numbers: Home ()
	Office ()
K. Dam Owner's or Contact P Address 1 2000 West Broad St	
Address 2 (optional)	
City Richmond	, State <u>VA</u> Zip Code <u>23220</u>
) Fair c) Poor d) Unsatisfactory e) Not Rated ✔
i. Vegetation (grass, trees v	·
ii. Animal activity observed	No
iii. Any obvious alteration or	repairs made? No
iv. Erosion noticed on crest	? <u>No</u>
v. Any visible settlement, mi	salignment or cracks? No
DHEC 2604 (Rev 11/2011)	

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

i. Vegetation (grass, trees weeds)? Grass, weeds, some trees

ii. Animal activity observed? Yes (at a miniumum - hogs)

iii. Any obvious alterations or repairs made?

iv. Erosion observed on upstream slope? Yes (appears some of this is from the hogs). Please closely monitor and fix the erosion before it becomes a bigger problem.

v. Settlement or cracks visible in slope? No

C. Down Stream Slope

i. Vegetation (grass, trees weeds)? grass, weeds, trees, briars

Excess vegetation made it difficult to perform a normal, routine inspection on the backslope of the dam.

ii. Animal activity observed? Yes

iii. Any obvious alterations or repairs made? Yes - a toe drain was located (previously cut off about 12 feet into the dam). PVC was used to extend the toe drain back out of the dam (permitted alteration)

iv. Erosion observed on down stream slope?

v. Settlement or cracks visible in slope? No

vi. Toe drains flowing? Yes

vii. Any seepage observed? If so, describe location,	Yes . There is a strip of wet, bare (muddy) ground appromxately 2-5 feet
flow rate, and any turbidity or color within the flow:	above the toe of the dam in the middle of the dam, approximately 15/20 feet
to the left of the primary outlet and extending southwest to approximately 10 f	eet to the right of the primary outlet pipe. Sheen no flow daylighting

No

None

D. Primary Spillway

i. Any visible deterioration of structure? No

ii. Is there an obvious need to repair or replace trash rack?

iii. Any noticeable problems with debris?

iv. Is valve or gate present? Not evaluated

E. Outlet Pipe

· · · · · · · · · · · · · · · · · · ·			1 · · · · · · ·			dia alla a cara a	··· · · · · ·	
1 (Anv) w/ata	r vieiniv t	$1 \cap W$	IDDKINA	ALLITELAD	OT TOO	alecharda	nindy	
i. Any wate			icaniiu	ouiside		uiscilaiue	DIDC:	No.
,		- 0 -					F F -	110.

No

ii. Describe any deflection or damage observed to the pipe:

No

iii. Visible condition of outlet channel: Clear and narrow

F. Auxiliary (Emergency) Spillway

i. Noticeable obstructions to flow? N_{N_0}

ii. Animal activity observed?

iii. Any noticeable deterioration in the approach or discharge channel? $_{No}$

iv. Any visible deterioration of structure's crest? $$_{\rm No}$$

DHEC 2604 (Rev 11/2011)

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:

Per Mr. Lein, the structure was bush hogged in the spring of 2014. Prior to the next inspection, please try to bush hog the dam

so that a routine inspection can be performed. Mr. Lein asked to be notified in the fall prior to the next inspection so that he

can be ready.

The old primary outlet pipe still has a small flow of water coming out of it ("crimped" end of pipe was cut off in order to get a camera

through it).

Inspector believes visible areas of seepage is due to seepage of the dam (toe drain problem that was addressed may

or may not contribute). Please monitor the seepage closely and call the Department if you notice any water daylighting

on the backslope or if the seepage appears to worsen.

Outlet pool area also had a sheen to it

** Mr. William Lein attended the inspection

*** 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.

DHEC 2604 (Rev 11/2011)

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.

DHEC 2604 (Rev. 11/2011)

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

February 06, 2015

CF Sauer Company 2600 W Broad Street Richmond, VA 23220

Mr. William Lein PO Box 546 Honea Path, SC 29654 Certified Mail 7014 2120 0001 7003 3692

Certified Mail 7014 2120 0001 7003 3708

RE: Routine inspection of Sauer Pond Dam (D-3042) Abbeville County

To Whom It May Concern:

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 February 05, 2015, the Department conducted its routine inspection of the "Class 1 High Hazard" dam listed above. I would like to thank Mr. William Lein for meeting and walking with me on the inspection.

Please read through the attached inspection report for details related to the inspection. Also, the seepage on the backslope of the dam (near the toe) needs to be monitored closely. If you notice any changes, please contact the Department and your Engineer.

I left Mr. Lein 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 Mr. Lein 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 864-227-5915 or email me at hacketsa@dhec.sc.gov.

Thank you,

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)



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

May 29, 2015

216 Ha	opher Tribble anover Road ille, SC 29620	Certified Mail: 7013 2250 0001 0630 5405
118 H	J Eason anover Road ille, SC 29620	Certified Mail: 7013 2250 0001 0630 5412
11 Hai	d and Beth Newton over Court ille, SC 29620	Certified Mail: 7013 2250 0001 0630 5429
2117 H	ld Investments Iwy 72 W wood, SC 29649	Certified Mail: 7013 2250 0001 0630 5436
RE:	Follow-up inspection Greenwood West Pon Abbeville County	

To Whom It May Concern:

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 Thursday, March 28, 2015, the Department conducted a follow-up inspection of the "Class 1 High Hazard" dam listed above.

Please see the attached inspection report for details related to the inspection. Thank you for the efforts that you have taken to remove the unwanted vegetation from the slopes of the dam. Please finish removing the unwanted vegetation and then obtain a good stand of grass on the structure. Also, your goal should be to maintain a good grass cover over your entire dam. By keeping your dam clean and accessible, it makes it easier for you to do regular visual inspections. These regular inspections often catch potential problems while they are still very easy (and less expensive) to correct.

I am enclosing a blank copy of an Emergency Action Plan (EAP). Please fill out this form for the structure. Please make a copy of the Plan and mail it/fax 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. This form needs to be returned to the Department by **July 15, 2015**.

I am also including 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.

If you have any questions or if I can be of any assistance prior to the re-inspection in two years, please give me a call at 864-227-5915 or email me at hacketsa@dhec.sc.gov.

Thank you,

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 (without enclosures) Brian Wisnewski, SCDHEC (without enclosures)

DHEC PROMOTE PROTECT PROSPER		Inspection Report for South Carolina Dams and Impoundment Structures Regulations R.72-1 through R.72-9
Section I (Owner's Info	mation)	
A. Dam Number: D <u>4039</u> &	Hazard Class_High	B. Name of Dam: Greenwood West Pond Dam
C. Inspection Date (<u>05/28</u> /20	<u>15</u>) & Time: <u>3:10 P.M.</u>	D. Date of Last Inspection: (<u>11/18/2014</u>)
E. Location-County/City: Abbevi	le / Abbeville	F. EQC Regional Office: Greenwood
G. Inspector's Name: Stephanie H	lackett	
H. Owner's Name: Christopher Trit	ble, Marty Eason, Richard and Bet	h Newton, Emerald Investments
I. Contact Person (if different f	rom above):	
J. Dam Owner's or Contact Pe	erson's Phone Numbers:	Home ()
		Office ()
K. Dam Owner's or Contact P	erson's mailing address:	Other ()
Address 1		
Address 2 (optional)		
City	, S	state Zip Code
Section II (Dam Conditi General Condition Assessm a) Satisfactory b Section III (Dam Inspec	ent (Select one of the f	
A. Dam Crest i. Vegetation (grass, trees w	eeds)? Road, with grass should be a should be should be should be a should be a should be	ulders and guardrails on each side of the road
ii. Animal activity observed?	No	
iii. Any obvious alteration or	repairs made? No	
iv. Erosion noticed on crest?	No	
v. Any visible settlement, mis the dam is a longitudinal crack along the DHEC 2604 (Rev 11/2011)	-	ongitudinal cracks along the edges of the road. Near the middle of several other cracks in the vicinity

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

i. Vegetation (grass, trees weeds)? Grass on left side, weeds and heavy unwanted vegetation in t	in the middle and right sides
--	-------------------------------

ii. Animal activity		ha huna an dalamat	
		hs were evident	
iii. Any obvious al	terations or repairs made	? Excess vegetation has been c	eut since the last inspection
iv. Erosion observe	ed on upstream slope?	Yesadjacent to waters edge	
v. Settlement or cr	acks visible in slope? Se	ttlement is apparent. Slope is uneve	n top to bottom and
	spect due to the vegetation)		
C. Down Stream SI			
i. Vegetation (gras		, grass, pine straw, stumps	
ii. Animal activity		ths were apparent	
n. 7 anna aoavry (
iii. Any obvious al	terations or repairs made	? Recently bush hogged, small trees cut	
iv. Erosion observe	ed on down stream slope	? <u>No</u>	
			ons. These areas start near crest but have larger cuts in slope at the
•	ement near the crest towards the mi	ddle and left sides of the dam.	
vi. Toe drains flow	ing? N/A		
vii. Anv seepage c	bserved? If so, describe	location. №	
	turbidity or color within th		
ii la thara an abuir	aug nood to repair or real	and track real/2	
ii. Is there an obvio	ous need to repair or repla	ace trash rack? Trash rack n	eeds to be installed
	problems with debrie?	ace trash rack? Trash rack n	eeds to be installed
	problems with debris?		eeds to be installed
iii. Any noticeable iv. Is valve or gate	problems with debris?		eeds to be installed
iii. Any noticeable iv. Is valve or gate E. Outlet Pipe	problems with debris?	No	eeds to be installed
iii. Any noticeable iv. Is valve or gate E. Outlet Pipe i. Any water visibly	problems with debris?	∾ e of the discharge pipe?	
 iii. Any noticeable iv. Is valve or gate E. Outlet Pipe i. Any water visibly ii. Describe any de Vegetation 	problems with debris? present? <u>No</u> v flowing or leaking outsid	∾ e of the discharge pipe?	Couldn't observe pipe due to vegetation in the area.
 iii. Any noticeable iv. Is valve or gate E. Outlet Pipe i. Any water visibly ii. Describe any de Vegetation 	problems with debris? present? No flowing or leaking outsid	∾ e of the discharge pipe?	Couldn't observe pipe due to vegetation in the area.
iii. Any noticeable iv. Is valve or gate E. Outlet Pipe i. Any water visibly ii. Describe any de vegetation iii. Visible condition	problems with debris? present? <u>No</u> r flowing or leaking outsid eflection or damage obser n of outlet channel: <u>Unable</u>	∾ e of the discharge pipe? rved to the pipe:	Couldn't observe pipe due to vegetation in the area.
iii. Any noticeable iv. Is valve or gate E. Outlet Pipe i. Any water visibly ii. Describe any de vegetation iii. Visible condition	problems with debris? present? <u>No</u> r flowing or leaking outsid eflection or damage obser n of outlet channel: <u>Unable</u>	∾ e of the discharge pipe? rved to the pipe:	Couldn't observe pipe due to vegetation in the area.
iii. Any noticeable iv. Is valve or gate E. Outlet Pipe i. Any water visibly ii. Describe any de vegetation iii. Visible condition F. Auxiliary (Emerg i. Noticeable obstru	problems with debris? present? <u>No</u> r flowing or leaking outsid effection or damage obser n of outlet channel: <u>Unable</u> gency) Spillway uctions to flow? <u>No</u>	∾ e of the discharge pipe? rved to the pipe:	Couldn't observe pipe due to vegetation in the area.
iii. Any noticeable iv. Is valve or gate E. Outlet Pipe i. Any water visibly ii. Describe any de vegetation iii. Visible condition F. Auxiliary (Emerg i. Noticeable obstru ii. Animal activity o	problems with debris? present? <u>No</u> r flowing or leaking outsid efflection or damage obser n of outlet channel: <u>Unable</u> gency) Spillway uctions to flow? <u>No</u> bserved? <u>No</u>	∾ e of the discharge pipe? rved to the pipe:	Couldn't observe pipe due to vegetation in the area.
iii. Any noticeable iv. Is valve or gate E. Outlet Pipe i. Any water visibly ii. Describe any de vegetation iii. Visible condition F. Auxiliary (Emerg i. Noticeable obstru ii. Animal activity o	problems with debris? present? <u>No</u> r flowing or leaking outsid efflection or damage obser n of outlet channel: <u>Unable</u> gency) Spillway uctions to flow? <u>No</u> bserved? <u>No</u>	No e of the discharge pipe? rved to the pipe: to observe due to heavy vegetation ach or discharge channel	Couldn't observe pipe due to vegetation in the area.
iii. Any noticeable iv. Is valve or gate E. Outlet Pipe i. Any water visibly ii. Describe any de vegetation iii. Visible condition F. Auxiliary (Emerg i. Noticeable obstru ii. Animal activity o iii. Any noticeable of	problems with debris? present? <u>No</u> r flowing or leaking outsid effection or damage obser n of outlet channel: <u>Unable</u> gency) Spillway uctions to flow? <u>No</u> bserved? <u>No</u> deterioration in the approx	e of the discharge pipe? ved to the pipe: to observe due to heavy vegetation	Couldn't observe pipe due to vegetation in the area.
iii. Any noticeable iv. Is valve or gate E. Outlet Pipe i. Any water visibly ii. Describe any de vegetation iii. Visible condition E. Auxiliary (Emerg i. Noticeable obstru ii. Animal activity o	problems with debris? present? <u>No</u> r flowing or leaking outsid offlection or damage obser n of outlet channel: <u>Unable</u> gency) Spillway uctions to flow? <u>No</u> bserved? <u>No</u> deterioration in the appro- rioration of structure's creation	e of the discharge pipe? ved to the pipe: to observe due to heavy vegetation	Couldn't observe pipe due to vegetation in the area.

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. It has been requested that the Department look at the classification rating on the dam. If you would like the Department to

do this, please put the request in writing and send it to SCDHEC Attn. John Poole, 2600 Bull St., Columbia SC 29201

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:

You need to monitor the slopes of the structure to look for active erosion/settlement/seepage. Please call the Department

if you notice active erosion/settlement/seepage.

The majority of the unwanted vegetation has been removed from the structure. Please continue to work on removing the

brush and trees in the vicinity of the outlet structure as well as the right side of the front slope of the dam. You will need to

obtain a grass cover on the front and back slopes of the dam. Please remove excess vegetation on a regular basis

(i.e. at least twice a year).

Mr. Eason, Julie Hunt, and Mark Atkins spoke with the inspector following the inspector.

*** All directions are given looking upstream

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.

DHEC 2604 (Rev 11/2011)

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.

DHEC 2604 (Rev. 11/2011)

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 PROMOTE PROTECT PROSPER	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 <u>4309</u> 8	& Hazard Class	B. Name of Dam: LITTLE RIVER WATERSHED 2B							
C. Inspection Date (<u>11/20</u> /20) <u>13</u>) & Time: <u>10:41 AM</u>	D. Date of Last Inspection: (<u>12/13/2011</u>)							
E. Location-County/City: LAUR	ENS / LAURENS	F. EQC Regional Office: GREENWOOD							
G. Inspector's Name: STEPHANIE HACKETT, HANNAH VINSON									
H. Owner's Name: CITY OF LAUK	H. Owner's Name: CITY OF LAURENS								
I. Contact Person (if different from above): TOMMY BURNS									
J. Dam Owner's or Contact P	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>939</u> - <u>9010</u> Address 1 <u>250 WEST LAURENS STREET</u>									
Address 2 (optional)	Address 2 (optional)								
City <u>LAURENS</u> , State <u>SC</u> Zip Code <u>29360</u>									
Section II (Dam Condition) General Condition Assessment (Select one of the following): a) Satisfactory b) Fair c) Poor d) Unsatisfactory e) Not Rated									
Section III (Dam Inspection Checklist)									
A. Dam Crest i. Vegetation (grass, trees weeds)? Well-established vegetative cover.									
ii. Animal activity observed? None observed									
iii. Any obvious alteration or	iii. Any obvious alteration or repairs made? No								
iv. Erosion noticed on crest? None observed									
v. Any visible settlement, misalignment or cracks? None observed									
DHEC 2604 (Rev 11/2011)									

Section III (Dam Inspection Checklist) continued

B. Upstream Slope i. Vegetation (grass, trees weeds)? <u>Well-established vegetative cover.</u>

	Any obvious alterations or repairs made? No
iv.	Erosion observed on upstream slope? None observed
v. \$	Settlement or cracks visible in slope? None observed
i. \	own Stream Slope /egetation (grass, trees weeds)? Well-established vegetative cover. A tree is to the right of the discharge pipe. It does not approve the start of the discharge pipe.
	iis tree is blocking the pipe. Animal activity observed? None observed
iii.	Any obvious alterations or repairs made? No
iv.	Erosion observed on down stream slope? None observed
v. \$	Settlement or cracks visible in slope? None observed
vi.	Toe drains flowing? Not Applicable
	Any seepage observed? If so, describe location, None observed vrate, and any turbidity or color within the flow:
	rimary Spillway
i. A	rimary Spillway ny visible deterioration of structure? None observed
i. A	
i. A ii. I	ny visible deterioration of structure? None observed
i. A ii. I iii. <i>I</i>	ny visible deterioration of structure? None observed s there an obvious need to repair or replace trash rack? No
i. A ii. l iii. <i>i</i> iii. <i>i</i>	ny visible deterioration of structure? <u>None observed</u> s there an obvious need to repair or replace trash rack? <u>No</u> Any noticeable problems with debris? <u>None observed</u> Is valve or gate present? Yes
i. A ii. I iii. <i>I</i> iii. <i>I</i> iv. E. C	ny visible deterioration of structure? <u>None observed</u> s there an obvious need to repair or replace trash rack? <u>No</u> Any noticeable problems with debris? <u>None observed</u>
i. A ii. l: iii. <i>i</i> iv. E. C i. A	ny visible deterioration of structure? <u>None observed</u> s there an obvious need to repair or replace trash rack? <u>No</u> Any noticeable problems with debris? <u>None observed</u> Is valve or gate present? <u>Yes</u> Dutlet Pipe
i. A ii. I iii. <i>i</i> iv. i. A ii. [ny visible deterioration of structure? <u>None observed</u> s there an obvious need to repair or replace trash rack? <u>No</u> Any noticeable problems with debris? <u>None observed</u> Is valve or gate present? <u>Yes</u> Putlet Pipe ny water visibly flowing or leaking outside of the discharge pipe? <u>None observed</u>
i. A ii. I iii. <i>I</i> iv. iv. E. C ii. A ii. I	ny visible deterioration of structure? <u>None observed</u> s there an obvious need to repair or replace trash rack? <u>No</u> Any noticeable problems with debris? <u>None observed</u> Is valve or gate present? Yes Dutlet Pipe ny water visibly flowing or leaking outside of the discharge pipe? <u>None observed</u> Describe any deflection or damage observed to the pipe: <u>None observed</u> Visible condition of outlet channel: <u>Mostly clear. Several feet downstream of the primary discharge pipe is a large area of b.</u>
i. A ii. I iii. I iv. iv. ii. C iii. ¹	ny visible deterioration of structure? <u>None observed</u> s there an obvious need to repair or replace trash rack? <u>No</u> Any noticeable problems with debris? <u>None observed</u> ls valve or gate present? <u>Yes</u> nutlet Pipe ny water visibly flowing or leaking outside of the discharge pipe? <u>None observed</u> Describe any deflection or damage observed to the pipe: <u>None observed</u> Visible condition of outlet channel: <u>Mostly clear. Several feet downstream of the primary discharge pipe is a large area of oc</u> uxiliary (Emergency) Spillway
i. A ii. I iii. I iv. iv. E. C i. A iii. I iii. T rip-ra F. An i. N	ny visible deterioration of structure? None observed s there an obvious need to repair or replace trash rack? No Any noticeable problems with debris? None observed Any noticeable problems with debris? None observed Is valve or gate present? Yes Dutlet Pipe None observed ny water visibly flowing or leaking outside of the discharge pipe? None observed Describe any deflection or damage observed to the pipe: None observed Visible condition of outlet channel: Mostly clear. Several feet downstream of the primary discharge pipe is a large area of observed Describe obstructions to flow? Left Emergency Spillway is clear until approximately 10-15 downstream of the crest.
i. A ii. I iii. I iv. iv. E. C i. A iii. I iii. ' rip-ral F. A I i. N There	ny visible deterioration of structure? <u>None observed</u> s there an obvious need to repair or replace trash rack? <u>No</u> Any noticeable problems with debris? <u>None observed</u> ls valve or gate present? <u>Yes</u> nutlet Pipe ny water visibly flowing or leaking outside of the discharge pipe? <u>None observed</u> Describe any deflection or damage observed to the pipe: <u>None observed</u> Visible condition of outlet channel: <u>Mostly clear. Several feet downstream of the primary discharge pipe is a large area of oc</u> uxiliary (Emergency) Spillway
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F	Auxiliary	(Emergency)	Spillway	v continued
••	Auxilial y	(Line gency)	Opiniwa	y commueu

v. If applicable, any observed exposure of rebar reinforcement? Not Applicable

vi. If applicable, any visible leakage below concrete spillway? Not Applicable

H. Downstream/Hazard Class Issues

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

I. Emergency Action Plan (EAP)

i. Emergency Action Plan provided by owner? No. EAP was emailed to Tommy Burns on October 24, 2013

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:

Non-DHEC employees present at inspection: Lisa Goode (NRCS), Jesse Harris (NRCS), Tommy Burns (City of Laurens)

Please continue to maintain a vegetative cover over all aspects 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.

DHEC 2604 (Rev 11/2011)

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.

DHEC 2604 (Rev. 11/2011)

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.

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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.



Catherine B. Templeton, Director Promoting and protecting the health of the public and the environment

> Certified Mail 7013 1090 0001 6157 3576

November 21, 2013

City of Laurens Attn: Tommy Burns 250 West Laurens Street Laurens, SC 29360

Re: Re-inspection of Dam D-4309 Little River Watershed Dam Laurens County

Dear Mr. Burns:

On Wednesday, November 20, 2103 the South Carolina Department of Health and Environmental Control (DHEC) conducted its routine inspection of the Little River Watershed 2B Dam in Laurens County. I would like to thank you as well as Lisa Goode and Jesse Harris for meeting us at the dam.

Thank you for the continued upkeep of the structure. Please refer to the attached inspection report for details related to the inspection.

To answer the question about why this dam is a high hazard dam, it appears that it is because of the house located on the southeast portion of parcel 352-00-002.

I am sending you a blank copy of an Emergency Notification Plan. Please fill the form out, send a copy to me, and keep a copy for yourself. The plan needs to be reviewed before significant rains and storms (e.g. hurricanes).

I also am including a "Notification of Ownership Change" with this inspection letter. 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.

The dam will be re-inspected in two 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. Our local address is 1736 S Main Street, Greenwood, SC 29646.

Thank you,

Stephanie Hackett, P.E. District Engineer Region I Greenwood EQC

Enclosures



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

February 18, 2015

Lake Greenwood LLC Attn: Paul Valiquette 957 Elm Street Somerset, MA 02726

RE: Routine inspection of Dam D-4501 Ralph J McClendon Dam Greenwood County

Dear Mr. Valiquette:

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 Thursday, February 12, 2015, the Department conducted a follow-up inspection of the "Class 1 High Hazard" dam listed above. I would like to thank Mr. Walters and Mr. Alexander for attending the inspection.

Thank you for working to get the excess vegetation cleared off of the structure in the timeline outlined in the inspection letter dated December 02, 2014. Please see the attached report for details related to the inspection.

I left you a blank copy of an Emergency Action Plan (EAP) in November of 2014. Please complete this form (if you need an additional form please let me know). Please make a copy of the EAP 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 in November of 2014 (if you need an additional form please let me know). This form must be filed with the Department in the event of transfer of ownership of the dam.

If you have any questions or if I can be of any assistance prior to the re-inspection of the dam, please give me a call at 864-223-0333 or email me at hacketsa@dhec.sc.gov. High hazard dams are currently inspected once every two years.

Thank you,

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

Section I (Owner's Information) A. Dam Number: D 4501 & Hazard Class High B. Name of Dam: RALPH J MCCLENDON C. Inspection Date (02/11/20 15) & Time: 102 pm D. Date of Last Inspection: (11/21, J.) E. Location-County/City: GREENWOOD / NINETY SIX F. EQC Regional Office: GREENWOOD G. Inspector's Name: STEPHANIE HACKETT F. EQC Regional Office: GREENWOOD LLC I. Contact Person (if different from above): PAUL VALIQUETTE J. Dam Owner's or Contact Person's Phone Numbers: Home () Office () Office () Other (774_) 258 K. Dam Owner's or Contact Person's mailing address: Address 1 957 ELM STREET Address 2 (optional)	
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E. Location-County/City: <u>GREENWOOD / NINETY SIX</u> F. EQC Regional Office: <u>GREENWOOD</u> G. Inspector's Name: <u>STEPHANIE HACKETT</u> H. Owner's Name: <u>LAKE GREENWOOD LLC</u> I. Contact Person (if different from above): <u>PAUL VALIQUETTE</u> J. Dam Owner's or Contact Person's Phone Numbers: Home () Office () Cher (<u>774</u>) <u>258</u> K. Dam Owner's or Contact Person's mailing address: Address 1 <u>957 ELM STREET</u> Address 2 (optional) City <u>SOMERSET</u> , State <u>MA</u> Zip Code <u>02726</u> - <u>4034</u>	DAM
G. Inspector's Name: STEPHANIE HACKETT H. Owner's Name: LAKE GREENWOOD LLC I. Contact Person (if different from above): PAUL VALIQUETTE J. Dam Owner's or Contact Person's Phone Numbers: Home () Office () Office () Other (774_) 258 K. Dam Owner's or Contact Person's mailing address: Address 1 957 ELM STREET Address 2 (optional)	/)
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City <u>SOMERSET</u> , State <u>MA</u> Zip Code <u>02726</u> - <u>4034</u> <u>Section II (Dam Condition)</u>	- 2362
Section II (Dam Condition)	
	_
General Condition Assessment (Select one of the following): a) Satisfactory b) Fair b) Fair c) Poor d) Unsatisfactory e) Not Rate Section III (Dam Inspection Checklist)	əd
A. Dam Crest i. Vegetation (grass, trees weeds)? Majority of the dam consisted of a grass cover	
ii. Animal activity observed? <u>No</u>	
iii. Any obvious alteration or repairs made? No	
iv. Erosion noticed on crest? Erosion from animal activity beginning at the border of the crest with the down stream sl side of the dam	ope on the right
v. Any visible settlement, misalignment or cracks? Crest appears to be uneven longitudinally and across the widt Monitor the structure for any additional changes.	

Section III (Dam Inspection Checklist) continued

B. Upstream Slope

i. Vegetation (grass, trees weeds)? Upstream slope has been cleared of excess vegetation since the last inspection, there was some

	Animal activity observed? Yes - animal paths
	·
iii.	Any obvious alterations or repairs made? Yes - the excess vegetation has been removed
iv.	Erosion observed on upstream slope? No
v. \$	Settlement or cracks visible in slope? No
חי	own Stream Slope
	/egetation (grass, trees weeds)? A couple of large trees remain on the down stream slope, there was still some debris from
	moval of the vegetation, there were some bare areas. After you remove the debris, re-establish a grass cover
ii.	Animal activity observed? Yes. Damage on the right side of the dam (possible burrow) and several animal paths
iii.	Any obvious alterations or repairs made? Yes - excess vegetation has been removed
IV.	Erosion observed on down stream slope? Yes - some of these may be from equipment used to remove vegetation
v. \$	Settlement or cracks visible in slope? Uneven slope
vi.	Toe drains flowing? <u>N/A</u>
vii.	Any seepage observed? If so, describe location, Yes. along the toe of the dam on the right side,
	v rate, and any turbidity or color within the flow: Water was discolored, turbid, there was not a flow at the time
	ly monitor this area for changes in the color, turbidity, or amount flow. Call the Department immediately if you notice any changes
	ny visible deterioration of structure?
	ny visible deterioration of structure? No s there an obvious need to repair or replace trash rack? No
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ii. I iii.	s there an obvious need to repair or replace trash rack?
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ii. I iii. iv. E. C i. A ii. I iii. N vater ii. A	s there an obvious need to repair or replace trash rack? No Any noticeable problems with debris? No Is valve or gate present? Valve stem visible Dutlet Pipe my water visibly flowing or leaking outside of the discharge pipe? No Describe any deflection or damage observed to the pipe: None Visible condition of outlet channel: Clear Usible condition of outlet channel: Clear Usible obstructions to flow? Yes. There are many pine trees in the left emergency spillway in the approach channel should have an unobstructed path through the emergency spillway
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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:

This inspection was performed as a follow-up to the routine inspection performed on 11/21/14. The inspector was notified

via email on 2/7/15 that the dam was ready for a re-inspection.

Larry Walters and Claude Alexander attended the inspection.

The excess vegetation has been removed from the structure.

A grass cover needs to be established

The erosion and damage that has been caused by the animals needs to be repaired to prevent any additional damage to the

structure.

Closely monitor the seepage that was observed and notify the Department of any changes to the seepage area.

Please inspect the dam on a regular basis to look for potential problems as they may develop.

*** All directions are given looking downstream

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DHEC 2604 (Rev 11/2011)

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DHEC 2604 (Rev. 11/2011)

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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.

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

March 17, 2015

Mr. and Mrs. Michael Johnson Certified Mail 7012 3050 0000 8223 1965 PO Box 115 Waterloo, SC 29834 Mr. Berry L Woods, Jr. Certified Mail 7012 3050 0000 8223 1972 122 Old Fairview Road Fountain Inn, SC 29644 Mr. and Mrs. Hoyt Graham Certified Mail 7012 3050 0000 8223 1989 5681 Norton Road Green Sea, SC 29545 Mr. Phillip E Satterfield Certified Mail 7014 2120 0001 7003 3760 2213 72/221 East Greenwood, SC 29649 Mr. and Mrs. Glenn Dehollander Certified Mail 7014 2120 0001 7003 3777 100 Heaven's Gate Lane Ware Shoals, SC 29692 Ms. Ora Pitts Certified Mail 7012 2120 0001 7003 3784 118 Twin Lakes Drive Moore, SC 29369 Ms. Ona L Pitts Certified Mail 7012 2120 0001 7003 3791 118 Twin Lakes Drive Moore, SC 29369 Mr. Ben McKinney and Ms. Jennifer Lowe Certified Mail 7012 2120 0001 7003 3807 PO Box 424 Roebuck, SC 29376

Mr. and Mrs. David Holmes PO Box 219 Waterloo, SC 29384 Certified Mail 7012 2120 0001 7003 3814

Mr. Claude Collins PO Box 944 Duncan, SC 29334

McKee Farm LLC 180 Windy Point Drive Waterloo, SC 29384 Certified Mail 7013 3020 0001 6789 2607

Certified Mail 7013 3020 0001 6789 2614

RE: Follow-up inspection of Dam D-4528 LP Pitts Dam Laurens County

Dear Property Owners:

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 Thursday, March 12, 2015, the Department conducted a follow-up inspection of the "Class 1 High Hazard" dam listed above. You are receiving this report since, according to Laurens County GIS records, you own property on the reservoir.

I was unable to completely perform a routine inspection due to the excess vegetation on the structure. Please remove all brush/briars/small trees (less than 6" in diameter) from the structure. Please call the Department when this has been completed so that a follow-up inspection may be performed. **The Department must be notified prior to September 14, 2015 that the excess vegetation has been removed and that the structure is ready for a follow-up inspection**. Please refer to the attached inspection report for details related to the inspection.

After removal of the small brush/briars/and trees, you will need to continue with Phase 2 and then Phase 3 of the process that was outlined during the inspection. Details for each phase can be found in the attached inspection report.

During the inspection, it was mentioned that the owners should refer to FEMA 534: Technical Manual for Dam Owners: Impacts of Plants on Earthen Dams. This document can be found online at: http://www.damsafety.org/media/documents/owner%20documents/Operation,%20Maintenance%20and%20Inspection/fema-534-Plants%20on%20Dams%20Manual.pdf. You may also do an online search for "FEMA 534" and it will be the first link. If you would like me to email you the link or mail you a paper copy, please contact me.

I am including a blank copy of an Emergency Action Plan (EAP). Please fill out one form for the structure, make a copy of the EAP, and mail it to my attention. Please also keep a copy for your records. The EAP 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 am also enclosing 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.

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,

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)

DHEC PROMOTE PROTECT PROSPER	-	Inspection Report for South Carolina Dams and Impoundment Structures Regulations R.72-1 through R.72-9
Section I (Owner's Info	rmation)	
A. Dam Number: D <u>4528</u> 8	Hazard Class ^{HIGH}	B. Name of Dam: <u>L P PITTS DAM</u>
C. Inspection Date $(03/12/20)$	15) & Time: 11:00 AM	D. Date of Last Inspection: (<u>11/06/2014</u>)
E. Location-County/City: LAURI	NS / WATERLOO	F. EQC Regional Office: GREENWOOD
G. Inspector's Name: STEPHAN	E HACKETT, JOHN POOLE, JAIME	FORD
H. Owner's Name: 1. Jennifer Low	ve and Ben McKinney 2. Ora Pitts	·
I. Contact Person (if different	from above): <u>SUSAN GLENN</u>	
J. Dam Owner's or Contact P	erson's Phone Numbers:	Home ()
		Office ()
K. Dam Owner's or Contact F Address 1 <u>118 TWIN LAKES D</u> Address 2 (optional)	RIVE	Other (<u>864_) 580</u> <u>0669</u>
·		tate <u>SC</u> Zip Code <u>29369</u>
Section II (Dam Condition General Condition Assessm a) Satisfactory Section III (Dam Inspec	hent (Select one of the f) Fair ✔ c) Poor [ollowing): d) Unsatisfactorye) Not Rated
A. Dam Crest i. Vegetation (grass, trees v	/eeds)? grass, two gravel vehi	cular gravel tracks
ii. Animal activity observed?	No	
iii. Any obvious alteration or	repairs made? <u>No</u>	
iv. Erosion noticed on crest	? <u>No</u>	
v. Any visible settlement, mi	salignment or cracks? N	0
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Section III (Dam Inspection Checklist) continued

B. Upstream Slope

i. Vegetation (grass, trees weeds)? trees, brush, leaves covering the ground, large rocks at bank

ii.	Animal	activity	observed?	No

iii. Any obvious alterations or repairs made? No

iv. Erosion observed on upstream slope? Could not fully inspect the upstream slope due to the excess vegetation

v. Settlement or cracks visible in slope? Uneven slopes - appears there are areas of settlement

C. Down Stream Slope

i. Vegetation (grass, trees weeds)? trees, brush, briars, leave cover

ii. Animal activity observed? yes

iii. Any obvious alterations or repairs made? No

iv. Erosion observed on down stream slope? Could not fully inspect the down stream slope due to the excess vegetation

V. Settlement or cracks visible in slope? Could not fully inspect the down stream slope due to the excess vegetation

vi. Toe drains flowing? Possibly. To the right of the primary spillway outlet was an area of running water. Based on the drawings the Department had access too, this could be from a toe drain. The source of the water should be investigated. The toe drain was not visible

vii. Any seepage observed? If so, describe location, If the water in "vi" above is not from a toe drain, then it is seepage. flow rate, and any turbidity or color within the flow: The "daylight" point was not discovered, the water is flowing,

None

D. Primary Spillway

i. Any visible deterioration of structure? No

ii. Is there an obvious need to repair or replace trash rack?

Yes. There is not currently a trash rack.

iii. Any noticeable problems with debris? No.

iv. Is valve or gate present? Valve stem was visible above the waterline. Valve stem is sitting at an angle.

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:

iii. Visible condition of outlet channel: Mostly Clear, narrow

F. Auxiliary (Emergency) Spillway

i. Noticeable obstructions to flow? Yes - trees

ii. Animal activity observed? No

iii. Any noticeable deterioration in the approach or discharge channel? No

iv. Any visible deterioration of structure's crest? No

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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:

On-site for inspection: Mr. and Mrs. Glenn, David Holmes

A Plan of Action was discussed during the inspection. Phase 1: clear the brush, briars, weeds and small trees (less than

6" in diameter) off of the entire structure. Limbing of the larger trees will aid in the grass growing.

A grass cover should also be established. Phase 2: Clear the large trees (within the primary spillway corridor).

Prior to removing these trees, a Professional Engineer (registered in the state of South Carolina) will need to be involved.

A permit may need to be obtained from the Department in order to remove large trees. Phase 3: Removal of the large

trees on the remainder of the structure. Again, a Professional Engineer (registered in the state of South Carolina) will need

to be involved. A permit may need to be obtained from the Department in order to remove large trees.

Please fill out the EAP form and submit it to the Department.

If the amount of water/seepage coming out of the toe of the dam on the right side changes, of it it becomes turbid,

you should contact the Department.

*** 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.

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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.

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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.