

# EMERGENCY ACTION PLAN FOR

NC Department of Environment & Natural Resources  
Division of Parks and Recreation

*Crowders Mountain State Park Dam*  
State Construction ID # 040627601

Code: 40416

Fund: 4E64

State ID # Gasto-003

522 Park Office Lane

Kings Mountain, North Carolina 28086  
704-853-5375

PREPARED BY:



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MGES Project No. 759.20



## Emergency Action Plan

Dam: Crowders Mountain State Park Dam

County: Gaston

### INSTRUCTIONS

The purpose of this Emergency Action Plan (EAP) is to safeguard the lives and reduce risk of damage to property downstream of the referenced dam in the event of flooding that may be caused by failure of the dam.

In the event that the dam owner/supervisor/caretaker observes or is informed of one or more of the conditions listed under Emergency Conditions Section or for any other reason feels that the structural integrity of the dam is at risk, then the owner or his representative shall contact the entities listed in the Notification Sequence on Page 2 of this Emergency Action Plan.

Upon receiving notification of an emergency situation, the State Emergency Operations Center shall contact the State Dam Safety Program and the appropriate local Emergency Management office.

### EMERGENCY CONDITIONS

The following conditions indicate an existing or potential emergency situation. If one or more of these are observed, the owner should initiate the Notification Sequence on Page 2 immediately.

- X Water flowing over the top of the dam, or the lake level is rising such that overtopping of the dam may soon occur.
- X Turbid seepage (that is, muddy seepage) emerging from the downstream slope of the dam, from around a spillway outlet pipe, from a seepage collection system drain pipe, from underneath a spillway slab or from the area just downstream of the dam.
- X Seepage rates increasing significantly over a short period of time.
- X Embankment cracking, sliding or sloughing on either the upstream slope or downstream slope of the dam.
- X Concentrated seepage or flow emerging from or near the dam embankment.
- X Boils in the area downstream of the dam, on the downstream slope of the dam, or from joints in a spillway or within the stilling basin. (Note: Boils appear to be small sand volcanoes and often indicate that soil is being removed or eroded from the dam.)
- X Depressions or sinkholes over the spillway pipe or at other areas on the dam.
- X Overturned or uprooted trees on the dam.

## Emergency Action Plan

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### NOTIFICATION SEQUENCE

Emergency Action Plan – NOTIFICATION SEQUENCE FLOWCHART	
Dam: <u>Crowders Mountain State Park Dam</u>	
County: <u>Gaston</u>	
<b>Sequence 1:</b> If one of the emergency conditions listed on Page 1 has been observed, but it is felt that failure of the dam is not imminent, then the <b>owner</b> should contact:	<b>Sequence 2:</b> If Dam Failure is occurring or appears to be imminent, the <b>owner</b> should contact:
<div><div>OWNER</div><div><div>Land Quality Section Staff</div><div>Mooresville Regional Office Telephone #: (704) 663-1699</div><div>OR</div><div>Raleigh Central Office Telephone #: (919) 733-4574</div></div><div><div>Owner's Engineer: <u>Jerry L. Meade</u> Telephone #: <u>704-564-5594</u></div></div></div>	<div><div>OWNER</div><div><div>State Emergency Operations Center (Available 24 hours) Telephone #: 1-800-858-0368 NOTE: Be ready to provide information on Page 5.</div><div>Local Emergency Management Office Telephone #: <u>704-866-3300</u></div></div></div> <div><ul style="list-style-type: none"><li>• In Sequence 1, the State Emergency Operations Center and local Emergency Management office will be contacted at the discretion of Land Quality Section staff.</li><li>• To obtain the telephone number for the local Emergency Management office (county or municipal), please contact the State Emergency Operations Center.</li><li>• Notification Sequence telephone numbers should be confirmed or revised annually.</li></ul></div>
<b>NOTE:</b> If it is unclear whether the observed condition(s) may cause failure of the dam, or if emergency conditions are observed outside of normal business hours, <b>Sequence 2</b> should be followed.	<div>Form Revision Date: 20 July 2000</div> <div>Page 2</div>

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### DOWNSTREAM HAZARDS

The following residences, businesses, roads, etc. would likely be impacted by failure of the Crowders Mountain State Park Dam. (This page may be reproduced as necessary.)

Example for a Downstream Resident/Business:

*Name of Owner or Business (if known)*

*Street Address*

*City/State/Zip*

*Telephone #*

Jack W. Laney  
230 Peak View Lane  
Gastonia, NC 28052  
(704) 854-8844 (HAZARD 3)

Charles Ray Jenkins  
529 Mountain Oak Lane  
Gastonia, NC 28052-7719  
(HAZARD 5)

Lois W. Quilliams  
536 Mountain Oak Lane  
Gastonia, NC 28052  
(HAZARD 6)

Example for a Downstream Road with Location  
Description (list local road name and State  
Road # if available):

Downstream Road (SR 2136) between Road A  
(SR 2137) and Road B (SR 2138); where it  
crosses Dam Creek.

State Park Lane, approximately 250' west of the  
intersection with Sparrow Springs Road.  
(HAZARD 1)

Sparrow Springs Road at the north side of the  
intersection with State Park Lane (HAZARD 2).

Park View Lane, approximately 2930' southwest  
of the intersection with Freedom Mill Road  
(SR 1122). (HAZARD 4)

X **Hazard information should be confirmed/updated annually to reflect changes in downstream conditions or ownership information.**



## Emergency Action Plan

Dam: Crowders Mountain State park Dam

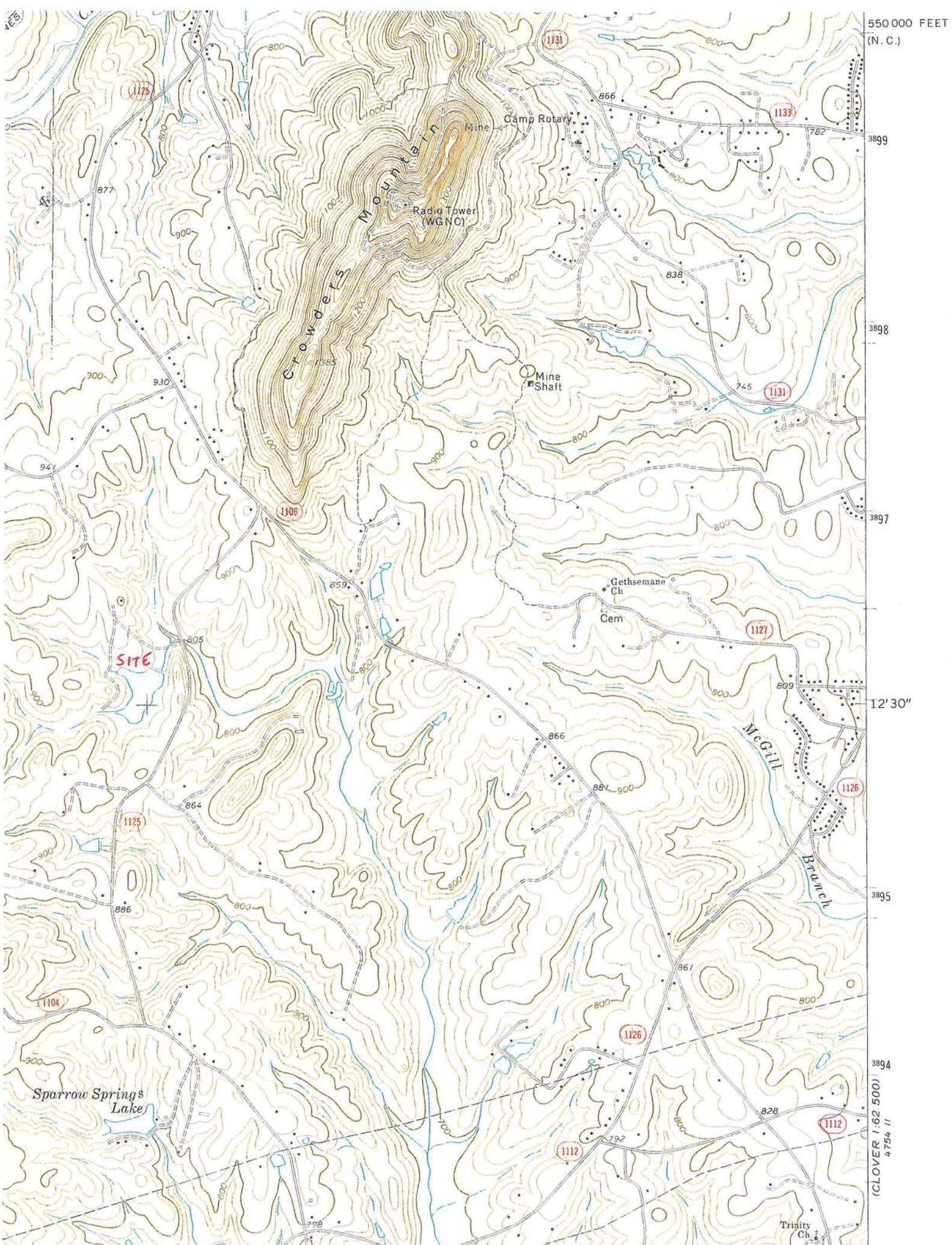
County: Gaston

### VICINITY MAP

*Please include a map indicating the location of the dam and downstream hazards. A photocopied portion of a United States Geological Survey 7.5-minute Quadrangle map or a North Carolina Department of Transportation county road map is preferred.*

*An engineering breach analysis may be required for situations where the downstream hazards are not readily identifiable.*





550 000 FEET  
(N. C.)

3899

3898

3897

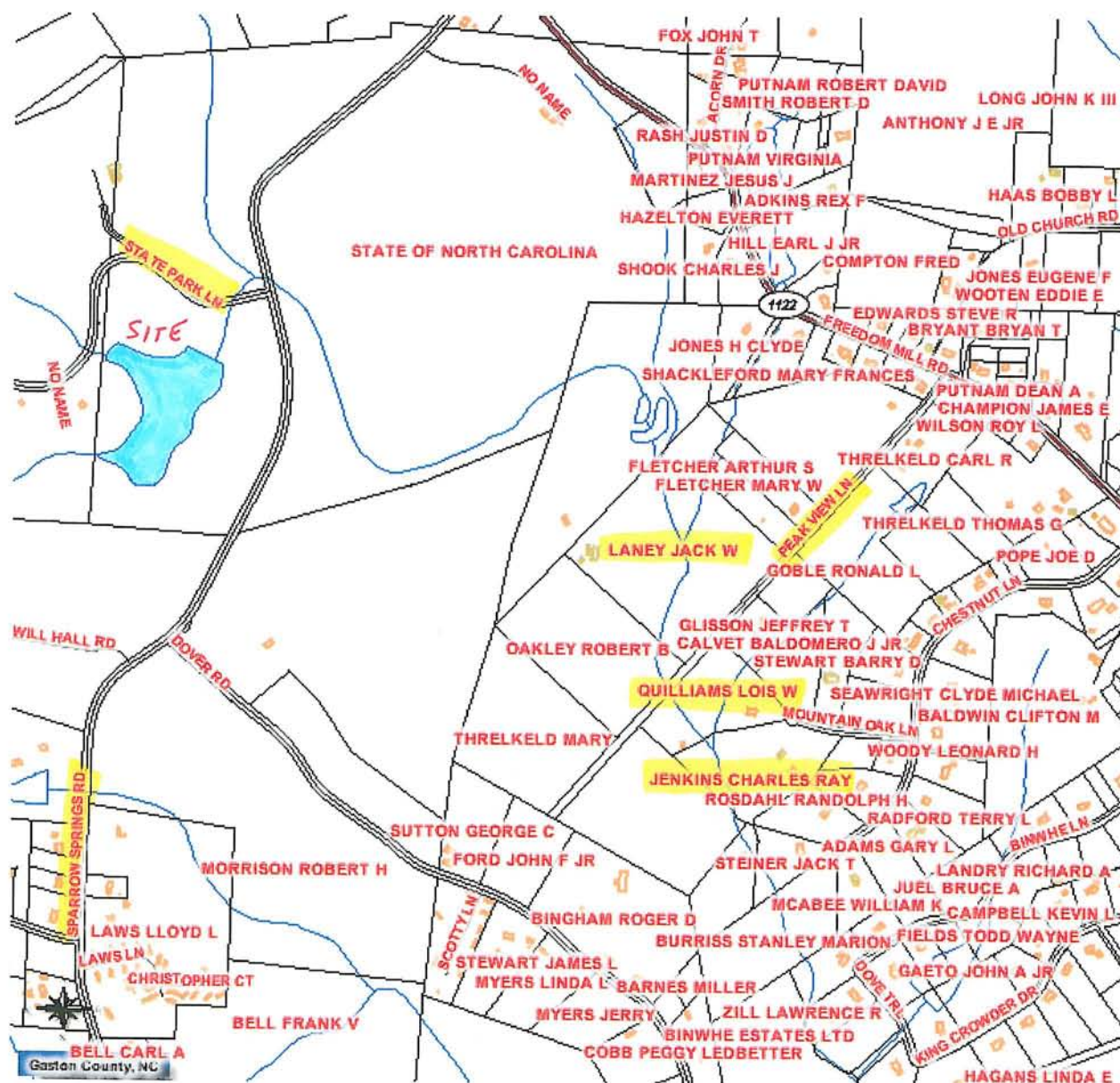
12' 30"

3895

3894

(CLOVER 1:62 500)  
4 754 11





## Emergency Action Plan

X If **Sequence 2** on Page 2 is followed, please provide the following information to the **Emergency Operations Center** (1-800-858-0368):

Name of Dam: Crowders Mountain State Park Dam

County: Gaston

State ID #: Gasto-003

River or Stream  
on which Dam is  
Located: South Crowders Creek

Structural Height  
of Dam: 28 [ft]

Surface Area at  
Normal Pool: 12 [acres]

Drainage Area: 550 [acres]

Directions to Dam: From US 24/27 West, turn South on Sparrow Springs Road, Turn West on State Park Lane, See Lake on left.

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The **Owner** shall be responsible for providing copies of this document to the parties listed below. All information in this document should be updated annually and revised copies provided to the parties listed below.

1. Local Emergency Management Office  
Gaston County Emergency Management  
615 North Highland Street, Gastonia, NC  
(704) 866-3300  
Emergency Number: (704)-866-3300

2. Land Quality Section  
Mooresville Regional Office  
919 North Main Street  
Mooresville, North Carolina 28115  
(704) 663-1699

3. State Dam Safety Engineer  
Division of Land Resources  
Land Quality Section  
1612 Mail Service Center  
Raleigh, North Carolina 27699-1612