EMERGENCY ACTION PLAN
Cover Page
For
Rock Ridge Lake Dam
NJ File Number: 25-134

Owner/Operator: Rock Ridge Community Club
Address: P. O. Box 242 Denville, NJ 07834

Prepared By: John Murray
Address: 29 West Glen Rd
Denville NJ 07834

Date: August 21, 2009

Each copy distributed is individually Numbered. Document Number

Revision Dates:
1st Revision: July 23, 2004
2nd Revision: August 21, 2009
3rd Revision:

* THE DAM OWNER/OPERATOR IS RESPONSIBLE FOR THE ANNUAL REVIEW
AND UPDATING OF THE EAP.

(This page must be printed on colored paper for ease of use)
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(This page must be printed on colored paper for ease of use)
I. Emergency Notification

EMERGENCY NOTIFICATION FLOWCHART

EMERGENCY OBSERVED
Refer to Notification Information form (page 5)

OWNER/OPERATOR
Name: John Murray
Phone: (973) 627-4829
24 Hr: (973) 216-7465

CONTRACTOR
Refer to list of Contractors form (page )

OWNER'S ENGINEER
Name: Valerie A. Hehal P.E. P.P.
Greenman-Pedersen, Inc.
100 Corporate Drive, Suite 301,
Lakewood, NJ 08701
Phone: (908) 236-9001 x246
24 Hr: (908) 305-6233

MUNICIPAL OEMS
Town: Dover Office of Emergency Management
Name: Chief Christopher Wagner
Phone: (973) 627-4900

County: Morris
Name: Pat Thomas
Phone: (973) 285-2800

Municipal Police OEM
Name: Chief Christopher Wagner
Phone: (973) 627-4900

Countdy: Morris
Name: Pat Thomas
Phone: (973) 285-2800

County: Morris
Name: Pat Thomas
Phone: (973) 285-2800

COUNTY OEMS

County: Morris
Name: Pat Thomas
Phone: (973) 285-2800

NJ-OEM
State Police OEM
Name: Chief Christopher Wagner
Phone: (908) 984-0859
24 Hr: (973) 637-637

NJ-DSS
BDM Safety
Name: Chief Christopher Wagner
Phone: (908) 984-0859
24 Hr: (973) 637-637

(This page must be printed on colored paper for ease of use)

Rock Ridge Lake EAP  4  Date:  8/21/2009
I. Emergency Notification

Emergency Notification Information

Dam emergency information for the four emergency conditions
Name of person reporting the emergency: ________________________________
Affiliation: __________________________________________________________
Phone Number: _______________________________________________________
Name & file number of dam: Rock Ridge Lake Dam File No. 25-134

Location of dam
County: ____________ Morris
Municipality: ________ Denville Township
Stream: ________ Denny Brook
Road(s): ________ Between Entrance Way and Edgewater Drive

Time and date of dam emergency: ____________________________
Type of emergency: _____________________________________________

Phone appropriate parties: [refer to the Emergency Notifications Flow Chart, page 4]

"This is (your name, title & affiliation).
There is a Dam (Advisory, Warning, Emergency, or Breach) condition at (name of dam).
Observation was at (time).
The situation is (explain the condition).
What is your anticipated time of arrival at the dam and what are my instructions?"
[refer to Site Description, page 7, for directions to the dam]

Communication priority list:

1. Municipal OEM.
2. County OEM.
3. NJ-OEM.
4. NJ-DSS.
5. Owner's Engineer.

(This page must be printed on colored paper for ease of use)
II. Statement of Purpose

Purpose

To establish procedures necessary to protect life and property in areas affected by the failure of Rock Ridge Lake dam.

Scope

This Emergency Action Plan:
1. Establishes a monitoring system which can activate the Plan.
2. Identifies the officials, organizations, agencies, and their respective responsibilities for implementing the plan.
3. Identifies those areas, residences, facilities and roads which might be affected by a dam failure.

Authority

1. Public Law 1942, Chapter 251, as amended.
3. N.J.A.C. 7:20-1 et seq., Dam Safety Standards.
### III. Project Description

**Project Site Description**

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dam Name</td>
<td>Rock Ridge Lake Dam</td>
</tr>
<tr>
<td>Hazard Classification</td>
<td>Significant Hazard</td>
</tr>
<tr>
<td>NJ File No.</td>
<td>25-134</td>
</tr>
<tr>
<td>NJ Federal Id:</td>
<td>NJ 00179</td>
</tr>
<tr>
<td>City/Town</td>
<td>Denville Township</td>
</tr>
<tr>
<td>County</td>
<td>Morris</td>
</tr>
<tr>
<td>Location &amp; Access (provide a location map &amp; directions to the dam from a major highway):</td>
<td>From Route 46 in Denville turn north on Route 53 to the intersection of Diamond spring road, Follow Diamond Spring road for approximately 1.5 miles then turn left on to Entranceway. Follow to the end and turn left in to Rock Ridge Community Club driveway. Dam is located just south of driveway.</td>
</tr>
<tr>
<td>Lot No:</td>
<td>3</td>
</tr>
<tr>
<td>Block No:</td>
<td>60000</td>
</tr>
<tr>
<td>Latitude</td>
<td>75° 61’ 64&quot;N</td>
</tr>
<tr>
<td>Longitude</td>
<td>50° 20’ 33&quot;W</td>
</tr>
<tr>
<td>River/Stream</td>
<td>Demsey Brook and Rockaway River</td>
</tr>
<tr>
<td>Quad Sheet</td>
<td>Roopton</td>
</tr>
<tr>
<td>Nearest City/Town</td>
<td>Denville</td>
</tr>
<tr>
<td>Height (ft):</td>
<td>10.2 ft</td>
</tr>
<tr>
<td>Normal Surface (ac)</td>
<td>17.4</td>
</tr>
<tr>
<td>Length (ft):</td>
<td>235 ft</td>
</tr>
<tr>
<td>Normal Capacity (ac-ft):</td>
<td>unknown</td>
</tr>
<tr>
<td>Dam Type:</td>
<td>RFPG (Earth fill)</td>
</tr>
<tr>
<td>Maximum Capacity (ac-ft):</td>
<td>unknown</td>
</tr>
<tr>
<td>Spillway:</td>
<td>Concrete</td>
</tr>
<tr>
<td>Spillway Capacity (cfs):</td>
<td>330 cfs</td>
</tr>
<tr>
<td>Dike</td>
<td>N/A</td>
</tr>
<tr>
<td>Drainage Area (sqr mls):</td>
<td>0.72 sq. mls</td>
</tr>
<tr>
<td>Outlet other than spillway</td>
<td>12 inch concrete low level drawdown pipe</td>
</tr>
<tr>
<td>Purpose/Operation of Dam</td>
<td>Recreation</td>
</tr>
<tr>
<td>Instrumentation (if any):</td>
<td>None</td>
</tr>
<tr>
<td>Significant upstream or downstream dams (if any):</td>
<td>Upstream-None</td>
</tr>
<tr>
<td>Down-Stream:</td>
<td>Denny’s Pond Dam and Muriel Hepner Park Dam</td>
</tr>
<tr>
<td>Overview of Inundation Area:</td>
<td>The area primarily affected includes the homes bordering Denny’s pond, which Rock Ridge Lake empties into too. The houses are located on Florence Ave., Winding Way, Edgewater Drive, and Dells Drive. Also affected would be Muriel Hepner Park and Diamond Spring road bridge.</td>
</tr>
<tr>
<td>Method of emergency drawdown:</td>
<td>Low level outlet pipe 12 inches with gate value</td>
</tr>
</tbody>
</table>

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Rock Ridge Lake EAP  
Date: 8/21/2009
Figure 2: USGS Map
Figure 4: Floodway Map Denville, NJ
IV. Emergency Detection, Evaluation, and Classification

Emergency Condition Identification

Since the goal of dam emergency planning is to protect lives and property, the timely identification of emergency conditions by trained personnel becomes paramount. Procedures to identify emergency conditions have been established by NJ-OEM. Four (4) dam emergency conditions of varying severity have been identified and are described below.

Dam Advisory Condition

A Dam Advisory Condition is a situation where an unusual problem or situation has occurred, but a failure of the dam is not imminent. Examples of a Dam Advisory Condition are:
- Instrumentation readings reach pre-determined numerical limits.
- Any undocumented or unusual spring.
- Any sign of piping.
- Any sign of slumping.
- Any sinkhole.
- Any unusual crack.
- Any unusual wet spot or boggy area.
- Any seismic event regardless of how slight.
- Any obstruction in the spillway.
- Evidence of damage due to vandalism at any structure(s).
- Bomb threat.
- A civil disorder near the reservoir structure(s).
- Any aircraft accident near the reservoir structure(s).

Required responses are: [refer to Emergency Notification Flow Chart, page 4]
- Notify municipal OEM.
- Notify county OEM.
- Notify NJ-OEM.
- Notify NJ-DSS.
- Investigation.
- Assessment and response.

Dam Warning Condition

A Dam Warning Condition is any developing or occurring event or circumstance which is or may adversely affect the integrity of the dam but is considered controllable. The Dam Warning Condition has the potential of evolving into a Dam Emergency or a Dam Breach condition. Examples of a Dam Warning Condition are:
- Water level of the lake is at an unsafe level and is rising threatening to overtop the dam.
- Any developing erosion, settlement or upheaval occurring on the downstream slope or at the toe of the dam and is considered to be controllable.
- Any undocumented leakage through any dam structure considered to be controllable.
IV. Emergency Detection, Evaluation, and Classification

Required responses are: [refer to Emergency Notification Flow Chart, page 4]
- Notify municipal OEM.
- Notify county OEM.
- Notify NJ-OEM.
- Notify NJ-DSS.
- Investigation.
- Assessment and response.

**Dam Emergency Condition**
A Dam Emergency Condition is defined as one or more of the following situations:
- Water has overtopped or will overtop any dam or dike.
- Any uncontrollable erosion, settlement or upheaval occurring on the downstream slope or at the toe of the dam.
- Any uncontrollable leakage through any dam structure.

Required responses are: [refer to Emergency Notification Flow Chart, page 4]
- Notify municipal OEM.
- Notify county OEM.
- Notify NJ-OEM.
- Notify NJ-DSS.
- Commence emergency actions.
- Issue public warning and begin evacuation.

**Dam Breach Condition**
A Dam Breach Condition is defined as:
- A dislocation or failure of any structure which allows for an expanding, uncontrollable discharge of water through the spillway, dam or dikes indicating a breach is occurring.

Required responses are: [refer to Emergency Notification Flow Chart, page 4]
- Notify municipal OEM.
- Notify county OEM.
- Notify NJ-OEM.
- Notify NJ-DSS.
- Commence emergency actions.
- Issue public warning and begin evacuation.
V. General Responsibilities Under the EAP

**Dam Owner/Operator Responsibilities:**

During an emergency condition:

1. Identification of the emergency condition.
2. Notification of the Office of Emergency Management (OEMs) and New Jersey Department of Environmental Protection, Dam Safety Section (NJ-DSS).  *Refer to the Emergency Notification Flow Chart on page 4*
3. Implementation and direction of emergency repairs.
4. Update the emergency status to the OEMs and NJ-DSS.
5. Provisions for security measures at the dam.
6. Provision of technical assistance to OEM officials, when necessary.
7. Reporting termination of emergency situation on-site at the dam.

In non-emergency conditions, owner/operator must also provide for:

8. Routine maintenance and operations of the dam.
9. Routine surveillance of the dam.
10. Routine inspection of the dam.
11. Annual review, updating, and distribution of the EAP.

**Owner/Operators EAP Coordinator Responsibility**

Once the dam owner/operator has designated an EAP Coordinator, that person shall be responsible for EAP related activities including:

1. Inclusion and distribution of document revisions.
2. Establish training seminars.
3. Coordinate EAP exercises.
4. Contact person for any EAP related inquiries.

**EAP Coordinator Name:** John Murray

**Phone Number:** 973-216-7465

**Municipal OEM Responsibilities:**

1. Warn the public of emergency conditions at the dam.
2. Implement and direct required evacuations of threatened areas.
3. Establish reception centers for evacuated people.
4. Secure and control access to evacuated areas.
5. Conduct rescue and recovery operations as required.
6. Determination and declaration of termination of an emergency/disaster response activities off-site.

**County OEM Responsibilities:**

1. Pass warning of emergency conditions at the dam to all affected municipalities.
2. Provide assistance to municipalities to help fulfill the emergency responsibilities.
V. General Responsibilities Under the EAP

NJ-OEM Responsibilities:
1. Assumption of control and coordination (when appropriate) of all emergency actions in accordance with Public Law.
2. Provision of assistance to the affected municipalities and counties (when requested and beyond their capabilities).
3. Coordination of specialized assistance.
4. Notification of appropriate State agencies.
5. Notification of appropriate counties of any declared emergency condition.
6. Periodic testing of the emergency notification procedures.

NJ-DSS Responsibilities:
1. Provide technical assistance to the dam owner/operator.
2. Assist in the evaluation and resolution of potential emergency conditions.
3. Has the authority to direct the owner/operator to take necessary safety measures.

Responsibility Termination
The owner/operator is responsible for evaluating a declared emergency condition. The NJ-DSS is responsible for making the decision, when appropriate, that an emergency condition no longer exists on-site at the Dam. The Office of Emergency Management representatives (OEMs) are responsible for declaring termination of an emergency condition off-site. As such, it will be the responsibility of the owner/operator to notify the OEMs of an emergency condition termination promptly.

As part of the termination phase, the County/Municipal OEM will be responsible to conduct a critique of the overall emergency response and to prepare a report documenting emergency procedures and actions. The critique process will be a discussion of the events that occurred prior to, during, and after a dam emergency. Participants review and evaluate their particular actions. The purpose of the critique is to determine what, if any, practicable improvements could be made for potential future emergencies, and conversely to identify deficiencies in procedures, manpower, materials and equipment. A report will be prepared and submitted to the NJ-OEM and NJ-DSS.

Responsibility Recovery
The basic goal of the recovery phase is to demobilize and return to the pre-emergency situation. The owner/operator is responsible for implementing all actions necessary to achieve this goal on-site at the dam. The Emergency Management Service (EMS) has the responsibility to effectuate recovery off-site in the affected communities.

The Owner/Operator is responsible for directing all on-site recovery activities. The basic recovery actions common to the four dam emergency conditions are:
- Secure access to emergency site,
- Restore basic facilities and services, and
- Assess damage.
V. General Responsibilities under the EAP

An additional activity that could be part of a high level dam emergency with associated physical actions would be a disaster declaration. Official disaster declarations would be made by members of the EMS, not by the owner of the dam.

A damage assessment report will be prepared by the owner to quantify the economic damages and to evaluate the impacts to the dam structure or the lake. Damage assessment will be done in two stages. The first stage will estimate the overall impacts in a broad sense and will be prepared as soon as possible following the dam emergency. The second stage will be a detailed evaluation and formal report of all impacts. The damage assessment report will be prepared and submitted to the NJ-OEM and NJ-DSS.
Emergency Notification Directory

1. Dam Owner: Rock Ridge Community Club
   Contact Person: John Murray
   Address: P.O. Box 242
   Phone No: 973-627-4829  24-Hr No: 973-216-7465

2. Dam Operator: John Murray
   Address: 29 West Glen Road Denville, NJ 07834
   Phone No: 973-627-4829  24-Hr No: 973-216-7465

3. EAP Development Crew
   Coordinator: John Murray
   Phone No: 973-627-4829
   Crew
   Tom Greulich  201-910-3865

4. Maintenance & Operations Crew
   Supervisor: Does Not Apply
   Phone No:
   Crew

5. Inspectors
   Name  Phone No.
   John Murray  973-627-4829
6. Owners' Engineers
   Name: Keller & Kirkpatrick
   Contact Person: Valerie A. Hrubal P.E. P.P.
   Address: Greenman-Pedersen, Inc. 100 Corporate Drive, Suite 301, Lebanon, NJ 08833
   Phone: (609) 286-0355 24-Hr No: 201-506-3923

7. Municipalities
<table>
<thead>
<tr>
<th>Municipality</th>
<th>Phone No.</th>
<th>Police No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deaville Township OEM</td>
<td>973-625-8300</td>
<td>973-627-4900</td>
</tr>
</tbody>
</table>

8. Counties
<table>
<thead>
<tr>
<th>County</th>
<th>Phone No.</th>
<th>Police No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Morris County</td>
<td></td>
<td></td>
</tr>
<tr>
<td>EM Thomas Zeliman</td>
<td>973-285-2900</td>
<td>973-285-6700</td>
</tr>
</tbody>
</table>

9. State Agencies
<table>
<thead>
<tr>
<th>Agency</th>
<th>Phone No.</th>
<th>24-Hr No.</th>
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<tbody>
<tr>
<td>NJ-OEM</td>
<td>(609) 882-7201</td>
<td>(609) 882-2000</td>
</tr>
<tr>
<td>NJ-DSS</td>
<td>(609) 984-0859</td>
<td>(877) WARNDEP (877) 927-6337</td>
</tr>
</tbody>
</table>
VI. Preparedness

Emergency Operation Center (EOC)

Address: Rock Ridge Club House 50 Entrance Way, Denville NJ 07834

Direction to the Emergency Operations Center from the nearest State or County highway:

The Rock Ridge Lake EOC is located at the Rock Ridge Community Club clubhouse. From Route 46 in Denville turn north on Route 53 to the intersection of Diamond Spring Road. Turn on to Diamond Spring Road for approximately 1.5 miles then turn left on to Entranceway. Follow to the end and turn left in to Rock Ridge Community Club driveway. Dam is located just south of driveway.
VI. Preparedness

Location map of the Emergency Operations Center.
### SURVEILLANCE CHECKLIST

<table>
<thead>
<tr>
<th>OBSERVATIONS</th>
<th>RESPONSE</th>
<th>DAM</th>
</tr>
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<tbody>
<tr>
<td><strong>NORMAL (NO DEFICIENCIES)</strong></td>
<td>5</td>
<td></td>
</tr>
<tr>
<td><strong>NOT INSPECTED</strong></td>
<td></td>
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</tr>
<tr>
<td><strong>DAM BREATCH</strong></td>
<td>4</td>
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</tr>
<tr>
<td><strong>OVERTOPPING OF DAM CREST</strong></td>
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</tr>
<tr>
<td><strong>UNCONTROLLABLE SETTLEMENT, HEAVE OR EROSION</strong></td>
<td>3</td>
<td></td>
</tr>
<tr>
<td><strong>UNCONTROLLABLE LEAKAGE</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>WATER LEVEL 2 FT BELOW CREST AND RISING</strong></td>
<td>2</td>
<td></td>
</tr>
<tr>
<td><strong>CONTROLLABLE SETTLEMENT, HEAVE OR EROSION</strong></td>
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<td></td>
</tr>
<tr>
<td><strong>CONTROLLABLE LEAKAGE</strong></td>
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</tr>
<tr>
<td><strong>UNUSUAL OR NEW SPRING OR SIGN OF PIPING</strong></td>
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</tr>
<tr>
<td><strong>SLUMPING OR HEAVE</strong></td>
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</tr>
<tr>
<td><strong>SINK HOLE</strong></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>WET SPOT OR BOGGY AREA (UNUSUAL)</strong></td>
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</tr>
<tr>
<td><strong>SEISMIC EVENT</strong></td>
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<tr>
<td><strong>SPILLWAY OBSTRUCTION</strong></td>
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</tr>
<tr>
<td><strong>CRACKING (UNUSUAL)</strong></td>
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</tr>
<tr>
<td><strong>EVIDENCE OF VANDALISM TO ANY STRUCTURE</strong></td>
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<tr>
<td><strong>BIOMD THREAT</strong></td>
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<tr>
<td><strong>CIVIL DISORDER</strong></td>
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</tr>
<tr>
<td><strong>AIRCRAFT ACCIDENT</strong></td>
<td>1</td>
<td></td>
</tr>
<tr>
<td><strong>OTHER</strong></td>
<td>1</td>
<td></td>
</tr>
</tbody>
</table>

**REMARKS**

**INSPECTED BY:**    
**DATE:**    

---

Rock Ridge Lake EAP  
Date: 8/21/2009
VI. Preparedness

Surveillance Checklist (Continued)

1. DAM ADVISORY CONDITION - INSPECT / ASSESS / RESPOND
2. DAM WARNING CONDITION - INSPECT / ASSESS / RESPOND
3. DAM EMERGENCY CONDITION - ISSUE PUBLIC WARNING AND BEGIN EVACUATION
4. DAM BREACH CONDITION - ISSUE PUBLIC WARNING AND BEGIN EVACUATION
5. NO ACTION, CONTINUE INSPECTION

List of Contractors

After a situation is identified as an emergency and evaluated, the Chief Executive/Operator is responsible, with assistance from the Owner's Engineer and an approval from the NJ-DSS, to direct repairs to resolve the condition. The severity of the condition will dictate the resources and response time necessary.

It will be the responsibility of the owner to maintain the list of contractors that may be contacted during an emergency condition for equipments, materials, and repairs current.

For each contractor on the list, the following must be provided:
- Contractor name.
- Contact person.
- Address.
- Phone number.
- Scope of its contracted services.

1. Contractor: Di Giseppi Brothers
   Contacts person: __________________________ Phone No: 973-334-6218
   Address: US Hwy 46 Mountain Lakes NJ
   Services contracted for: TBD

2. Contractor: Cosentino
   Contacts person: Mr. Cosentino Phone No: 9873-334-3170
   Address: Boonton NJ
   Services contracted for: TBD

3. Contractor: Carradini Excavating
   Contacts person: __________________________ Phone No: 9731-627-8782
   Address: 111 W Main St Rockaway, NJ 07866
   Services contracted for: TBD
VI. Preparedness

### Available On-Site Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Location</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Common fill material</td>
<td>Ball Field</td>
<td>Limited</td>
</tr>
<tr>
<td>Sand</td>
<td>Beach Area</td>
<td>Limited</td>
</tr>
</tbody>
</table>

### Available On-Site Equipment

<table>
<thead>
<tr>
<th>Equipment</th>
<th>Location</th>
<th>Quantity</th>
</tr>
</thead>
</table>

There is no equipment available other than hand tools and riding lawn mower.
## VI. Preparedness

### Available Off-Site Materials

<table>
<thead>
<tr>
<th>Material</th>
<th>Company &amp; Location</th>
<th>Phone No.</th>
<th>Approximate Arrival Time to Dam (Min)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Concrete</td>
<td>Allied Concrete Co Inc</td>
<td>(973) 627-6150</td>
<td>15 Min</td>
</tr>
<tr>
<td></td>
<td>205 Franklin Ave</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rockaway, NJ 07866</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Concrete</td>
<td>County Concrete</td>
<td>(973) 584-7122</td>
<td>30 Min</td>
</tr>
<tr>
<td></td>
<td>50 Railroad Ave</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kenvil, NJ 07847</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lumber</td>
<td>84 Lumber</td>
<td>(973) 627-2584</td>
<td>15 Min</td>
</tr>
<tr>
<td></td>
<td>22 Ford Road</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rockaway, NJ 07866</td>
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<tr>
<td>Filter Fabric</td>
<td>Forest Lumber</td>
<td>(973) 334-7744</td>
<td>15 Min</td>
</tr>
<tr>
<td></td>
<td>Us Hwy No 46</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Mountain Lakes, NJ 07046</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sand Bags</td>
<td>Forest Lumber</td>
<td>(973) 334-7744</td>
<td>15 Min</td>
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<td>Us Hwy No 46</td>
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<td>Concrete Pipe</td>
<td>Price Brothers Company</td>
<td>937-226-8728</td>
<td>30 Min</td>
</tr>
<tr>
<td></td>
<td>22 Route 10, Suite 101</td>
<td>Emergency Service: 800-445-1534</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Succasenna, NJ 07876-1724</td>
<td></td>
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<tr>
<td>Concrete Pipe</td>
<td>New Jersey Concrete Pipe</td>
<td>(973) 835-3502</td>
<td>60 Min</td>
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<tr>
<td></td>
<td>59 Hamburg Turnpike</td>
<td></td>
<td></td>
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<td></td>
<td>Pompton Lakes, NJ 07442</td>
<td></td>
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<tr>
<td>Sand/Gravel/Riprap</td>
<td>County Concrete</td>
<td>(973) 584-7122</td>
<td>30 Min</td>
</tr>
<tr>
<td></td>
<td>50 Railroad Ave</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Kenvil, NJ 07847</td>
<td></td>
<td></td>
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<tr>
<td>Sand/Gravel/Riprap</td>
<td>Seagull Trucking</td>
<td>(973) 989-8172</td>
<td>30 Min</td>
</tr>
<tr>
<td></td>
<td>315 Palmer Rd</td>
<td></td>
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<td></td>
<td>Denville, NJ 07834</td>
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### Available Off-Site Equipment

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<thead>
<tr>
<th>Equipment</th>
<th>Company &amp; Location</th>
<th>Phone No.</th>
<th>Approximate Arrival Time to Dam (Min)</th>
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<tr>
<td>Crane Service</td>
<td>Jensen Koerner Crane Service</td>
<td>(973) 267-9300</td>
<td>30 Min</td>
</tr>
<tr>
<td></td>
<td>400 Franklin Ave</td>
<td></td>
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<td></td>
<td>Rockaway, NJ 07866</td>
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<tr>
<td>Excavation Heavy Equipment</td>
<td>Carradini Excavating</td>
<td>(973) 627-7828</td>
<td>30 Min</td>
</tr>
<tr>
<td></td>
<td>111 W Main St</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Rockaway, NJ 07866</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Excavation Heavy Equipment</td>
<td>Di Guiseppi Bros</td>
<td>(973) 334-6218</td>
<td>30 Min</td>
</tr>
<tr>
<td></td>
<td>U S Hwy No 46</td>
<td></td>
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</tr>
<tr>
<td></td>
<td>Mountain Lakes, NJ 07046</td>
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</table>
VII. Inundation Maps

Description of Inundated Area

The discharge of Rock Ridge Lake empties into Denny's pond. The properties impacted by inundation are the houses bordering Edgewater pond. The roads surrounding the pond include Edgewater Rd, Florence Ave, Winding Way, Dells Drive.

The specific properties include:

Block 60505 Lot 9, 18
Block 60506 Lot 7
Block 60504 Lot 1, 2, 3
Block 60407 Lot 1, 2, 3, 4, 16, 17

_____________________________________________________________________

Index of Maps

List attached maps by name and number:

Specific inundation maps are under development and will follow when available.
Appendix A.

The EAP development coordinator of the dam is responsible for the training, exercising, and updating of the EAP.

Rock Ridge will conduct an annual exercise for the training of the EAP personnel. An EAP binder and documentation will be maintained in the Emergency Operation Center. The binder will contain all EAP procedures. In addition the EAP flowchart will be posted in the entrance to the clubhouse for reference.

Training

The EAP development coordinator of the dam is responsible for the training of all personnel involved in the implementation of the EAP. Training of personnel involved in the implementation of the EAP is to ensure that they are thoroughly familiar with all elements of the plan, the availability of material and equipment, and their responsibilities and duties under the EAP.

Technically qualified personnel should be trained in problem detection and evaluation and appropriate remedial (emergency and non-emergency) measures. This training is essential for proper evaluation of developing situations at all levels of responsibility which, initially, is usually based on onsite observations. A sufficient number of personnel should be trained to ensure adequate coverage at all times.

Training courses should be held within two (2) months of the implementation of the EAP. Follow-up training sessions should be held annually. The following should be part of the training:

1. For Normal Operations:
   - Instruction on the location, purpose, and operations of the dam, structure components.
   - Demonstration of normal dam conditions and operations.
   - Instruction on visual inspection procedures for the weekly/monthly inspections.
   - Hands-on training of communications equipment.

2. For Emergency Condition Identification:
   - Instruction on visually detecting an emergency warning sign.
   - Review of conditions which would indicate an emergency including proper identification of the type of emergency.
   - Instruction on interpreting the surveillance checklists to detect an emergency situation.

3. For Emergency Communications:
   - Instruction on proper use of communications equipment.
   - Instruction on appropriate individuals to contact, as well as the time to call them and the order in which calls should be made.
   - Instruction on appropriate message to convey.
4. For Emergency Response Actions:
- Instruction on the role of each worker in response actions.
- Instruction on dam emergency response actions to be taken for each type of emergency situation.
- Instruction on obtaining and utilizing on and off-site emergency supplies.
- Instruction on determining the end of a dam emergency.
- Instruction on proper communications for notifying the appropriate individuals of the emergency termination.
- Instruction on the appropriate dam emergency recovery activities.

Exercising
Develop scenarios for the various emergency conditions and exercise the state of training and readiness of key personnel responsible for actions during an emergency in order to make sure that they know and understand the procedures to be followed and actions required.

Emergency response exercises should be held annually and should simulate an emergency situation in which the worker is tested on emergency condition notification, emergency communications, and emergency response skills. The exercise, whenever possible, should include participation by both the dam owner and the affected state and local emergency management officials. The exercises should be evaluated both orally and in writing and the EAP should be revised to correct any deficiencies noted.

Updating
The EAP should be updated promptly after each change in involved personnel or their telephone numbers or after the completion of a scheduled exercise review which revealed required changes. A review of the adequacy of the EAP should be conducted at intervals not to exceed one year. If no revision is necessary, a statement that the review was made and no revision to the EAP was necessary should be provided to each recipient of the original EAP.

Posting of the Notification Flowchart
An up-to-date copy of the Notification Flowchart should be posted in prominent locations at the dam site and local emergency operations center (essential for unattended dams).

The flowchart should be posted at each phone and radio transmitter at the dam, powerhouse (if applicable), and at all other desirable locations. The locations of the posted flowcharts should be indicated below.

List of Location of Notification Flowchart at the Dam Site:

Entrance to Rock Ridge Clubhouse (ROC)
Appendix B. Definitions

The words and terms listed below, as used in this plan, shall have the following meanings, unless the context clearly indicates otherwise.

**Dam** - Any artificial dike, levee or other barrier, together with appurtenant works, which is constructed for the purpose of impounding water on a permanent or temporary basis, that raises the water level five (5) feet or more above the usual, mean, low water height when measured from the downstream toe-of-dam to the emergency spillway crest or in the absence of an emergency spillway, the top-of-dam.

**Drawdown** -Lowering of lake/reservoir level through the use of flood gates, low level outlets, etc.

**Emergency** - A condition in which a significant hazard to life or property is occurring.

**Emergency Action Plan (EAP)** - Established procedures necessary to minimize threat to life and damage to property in the event of a dam failure related release.

**Emergency Condition** - Any of the four conditions identified in the Emergency Condition Identification section.

**Emergency Management Service (EMS)** - All Offices of Emergency Management (State, County or Local) which would be involved in an emergency response.

**Emergency Operation Center (EOC)** - The command post from which emergency operations are coordinated. Must contain a telephone/communication line or be close to one.

**Failure** - An incident resulting in the uncontrolled release of water from an operating dam.

**File Number** - New Jersey State identification number for the dam.

**Hazard Classification** - Classification of potential hazard a dam failure would cause downstream of the dam.

- **Class I (High Hazard Potential)** - Those dams the failure of which may cause the probable loss of life or extensive property damage.
- **Class II (Significant Hazard Potential)** - Those dams the failure of which may cause significant damage to property and project operation, but loss of human life is not envisioned.

**Inundation** - The area that would be directly affected by flood waters resulting from a catastrophic dam failure.

**Large Dam** - A dam which raises the water of any stream more than 70 feet above its usual mean low-water height or which impound more than 10,000 acre-feet of water.

Date: _8/21/2009_
VIII. Appendices

NJ-DSS - New Jersey Department of Environmental Protection, Dam Safety Section.

NJ File No. - New Jersey State identification number for the dam.

NJ-OEM - New Jersey State Police, Office of Emergency Management.

Outlet - An opening through which water can be freely discharged from a lake/reservoir for a particular purpose.

Owner/Operator - Person/entity who owns, controls, operates, maintains, manages the dam.

Piping - The progressive development of internal erosion by seepage, appearing downstream as a hole or seam discharging water that contains soil particles.

Sinkhole - Any unusual subsidence.

Slumping - The movement of a mass of earth and/or down a slope. In embankments and abutments, this involves the separation of a portion of the slope from the surrounding material.

Spillway - A waterway/structure designed to convey excess water from a reservoir/lake without endangering the safety of the dam.

Spillway Design Flood - The flood associated with the spillway design storm upon which the hydraulic capacity of the spillway structure is designed.
Appendix C. Approval & Distribution of the EAP

Approval and Distribution
Once the EAP has been developed, the owner/operator shall submit the completed EAP with inundation mapping and dam breach analyses to the NJ-DSS for review and approval. Once the NJ-DSS approves the EAP, the EAP must be distributed by the owner to all individuals who will be involved during an emergency. Any revisions to the EAP should be furnished to all individuals to whom the original EAP was distributed.

Each party receiving an EAP must sign and return a receipt to the distributor (owner/operator) of the EAP. The signed receipt should help to assure that all parties are aware of and understand the EAP and agree to their assigned roles should an emergency occur.

A standard distribution letter and receipt is included for reference.

Document Distribution
The document holder and location of each copy of the up-to-date EAP should be included in this section of the EAP.

<table>
<thead>
<tr>
<th>Controlled Document Holder</th>
<th>Document Number</th>
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<tbody>
<tr>
<td>NJ-OEM (State Police OEM)</td>
<td>1</td>
</tr>
<tr>
<td>NJ-DSS (DEP Dam Safety Section)</td>
<td>2</td>
</tr>
<tr>
<td>Morris County OEM</td>
<td>3</td>
</tr>
<tr>
<td>Denville Township OEM/Police</td>
<td>5,6</td>
</tr>
<tr>
<td>Rock Ridge Community Club (John Murray)</td>
<td>7</td>
</tr>
<tr>
<td>Rock Ridge Community Club (Club President)</td>
<td>8</td>
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<tr>
<td>Rock Ridge Community Club (EOC)</td>
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<td>Keller &amp; Kirkpatrick (Valerie Hruby, PE)</td>
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</table>

Date: 8/21/2009
Emergency Action Plan Holders mailing addresses

**Document 1**
Updated 8/21/2009

NJ State Police Emergency Mgmt.
Contact: Mr. McShoy
PO Box 7068
W. Trenton, NJ 08628
P: 609-882-4201
P-24hr: 609-882-2000

NJ DEP Dam Safety Section
Contact: John Moyle, PE
501 E. State St. CN419
Trenton, NJ 08625-0419
P-24hr: 609-927-6337
P: 609-984-0859

**Document 2**
Updated 8/21/2009

Morris County OEM
Contact: Thomas Zellman
PO Box 900
Morristown, NJ 07963-0900
P-24hr: 973-285-2900
P: 973-829-8052

**Document 3**
Updated 8/21/2009

**Document 4**
Updated 8/21/2009

Reserved Future Use

**Document 5**
Updated 8/21/2009

Denville Township OEM
Contact: Emergency Management
Township of Denville
1 St Mary’s Pl
Denville NJ 07834
P-24hr: (973) 627-4900
P: (973) 625-8300

**Document 6**

Denville Township OEM
Contact: Police
Township of Denville
1 St Mary’s Pl
Denville NJ 07834
P-24hr: (973) 627-4900
P: (973) 625-8300

**Document 7**
Updated 8/21/2009

Rock Ridge CC
Contact: John Murray
29 West Glen Rd
Denville NJ 07834
P-24hr: (973) 627-4829

**Document 8**

Rock Ridge CC
Contact: President
29 West Glen Rd
Denville NJ 07834
P-24hr: (973) 627-4829

**Document 9**
Updated 8/21/2009

Rock Ridge CC
Contact: EOC (Clubhouse)
PO Box 242
Denville NJ 07834
P-24hr: (973) 627-9640

**Document 10**
Updated 7/15/04

Greenman-Pedersen, Inc.
Contact: Valerie Hrabal, PE
100 Corporate Drive, Suite 301,
Lebanon, NJ 08833
P-24hr: (201) 506-3923
P: (908) 236-9001 x246

**Date:** 8/21/2009