

**WATER PLANT RESERVOIR DAM**  
**VILLAGE OF NEW PALTZ WATER SYSTEM**  
**DAM STATE ID #193-0726**

**EMERGENCY ACTION PLAN**

**For**

**New Paltz Water Plant Reservoir Dam**

**NYSDEC Dam I.D. Number: 193-0726**

**Dam location (latitude/ longitude) 41-46-16/74-07-49**

**Dam Location: (Nearest road address) 200 Mountain Rest Road, New Paltz, N.Y. 12561**

**Town/County: New Paltz**

**River: Wallkill**

**Owner/Operator: Village of New Paltz Department of Public Works**

**Address: 25 Plattekill Avenue**

**New Paltz, N.Y. 12561**

**Prepared By: Brinnier and Larios, P.C., Attn: Richard Ruth, P.E.**

**Address: 67 Maiden Lane**

**Kingston, N.Y. 12401**

**Date: 11-13-11**

**Revision Dates:\***

**1st Revision: \_\_\_\_\_**

**2nd Revision: \_\_\_\_\_**

**3rd Revision: \_\_\_\_\_**

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

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**VILLAGE OF NEW PALTZ WATER SUPPLY SYSTEM  
WATER PLANT RESERVOIR  
DAM STATE ID# 193-0726  
INNUNDATION AREA NARRATIVE DESCRIPTION**

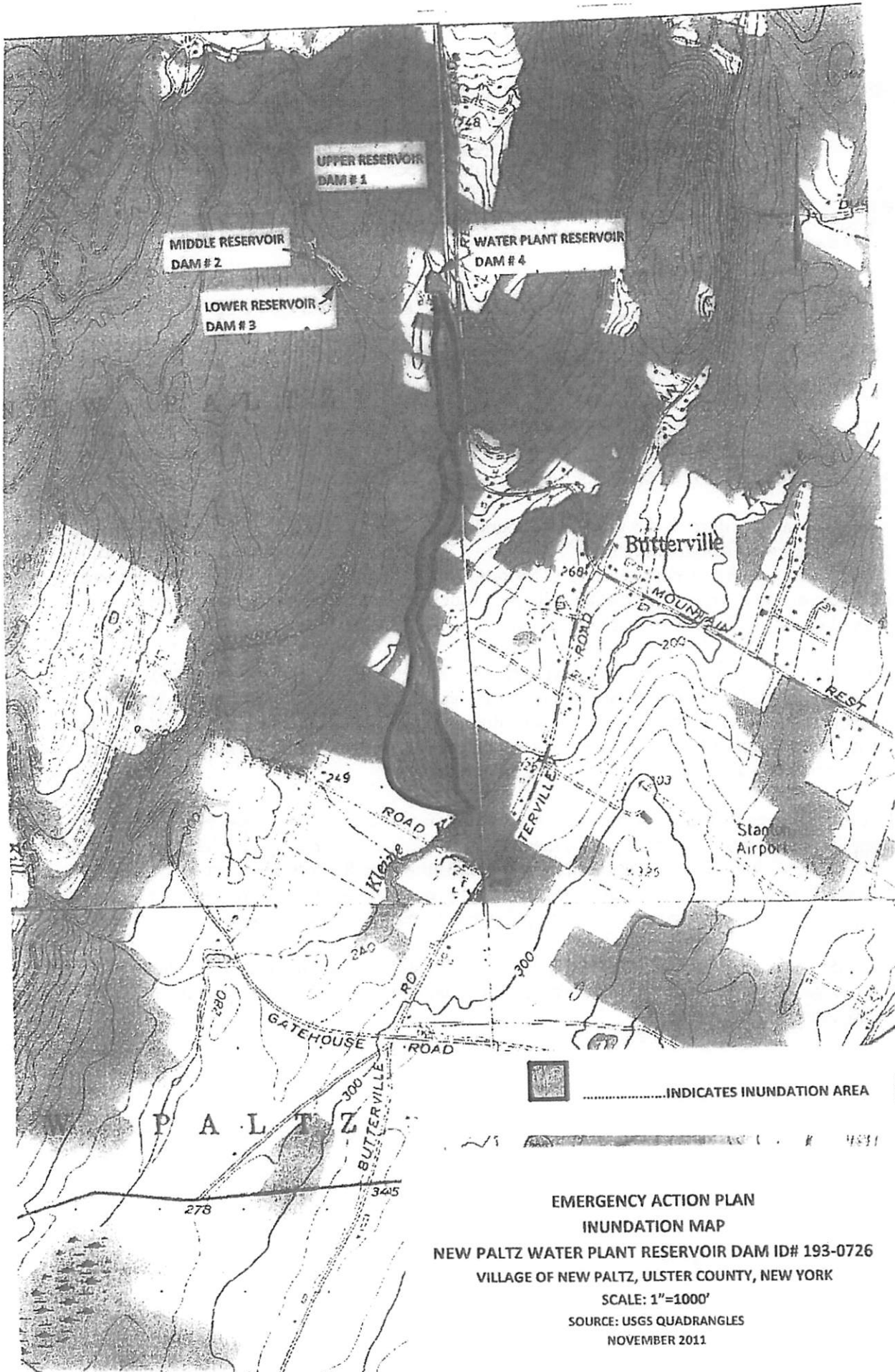
The subject dam is a 30' high, 55' long combination concrete and earthen embankment dam that impounds approximately 2.5 MG that is situated adjacent to the Village of New Paltz Water Treatment Facility off of Mountain Rest Road in the Town of New Paltz.

In the event of failure, water from the impoundment will be discharged along an unnamed class AA stream will flow approximately 100 feet to a 36" HDPE culvert gravel driveway crossing which the class AA stream traverses. This reservoir was constructed to maintain an adequate volume of water for treatment at the Village's water treatment facility in the event there is a shutdown of the New York City Aqueduct.

The NYC Aqueduct is situated approximately 1,700 feet southerly and approximately 180 feet below the dam for the Water Plant Reservoir along the class AA unnamed stream. There is a cast in place concrete tunnel below the aqueduct structure which is maintained by the New York City Department of Environmental Protection. The cast in place concrete culvert dimension is 5'-7" wide and 4'-7" high.

Water will then flow and join the class AA stream that flows from the upper reservoirs approximately 1500 LF downstream then approximately 3200 LF through a large flat area before meeting the Kleine Kill and flowing under Butterville Road and then another ¼ mile northerly to Mountain Rest Road. The flows then proceed northerly then southerly for approximately 2 miles through wetlands prior to entering the Wallkill River.

USGS topographic maps, the NYSDEC Environmental Resource Mapper, FIRM Maps and field investigations were performed to determine the inundation area. The dam operator assisted with defining the inundation area.



UPPER RESERVOIR  
DAM # 1

MIDDLE RESERVOIR  
DAM # 2

LOWER RESERVOIR  
DAM # 3

WATER PLANT RESERVOIR  
DAM # 4

Buttrick

State  
Airport

P A L T Z

.....INDICATES INUNDATION AREA



**EMERGENCY ACTION PLAN  
INUNDATION MAP**  
NEW PALTZ WATER PLANT RESERVOIR DAM ID# 193-0726  
VILLAGE OF NEW PALTZ, ULSTER COUNTY, NEW YORK  
SCALE: 1"=1000'  
SOURCE: USGS QUADRANGLES  
NOVEMBER 2011

**Notification Information:**

Dam Emergency Information for the Emergency

Name of person reporting the emergency: \_\_\_\_\_

Affiliation: \_\_\_\_\_

Phone Number: \_\_\_\_\_

Dam Name & NYS-DEC ID #: New Paltz Water Plant Reservoir Dam

Location of dam:

County: Ulster

Municipality: New Paltz (Town)

Stream: Unnamed AA Tributary to Kleine Kill

Road(s): Butterville Road, Mountain Rest Road

Time and Date of Dam Emergency: \_\_\_\_\_

Type of Emergency: (see back of form): \_\_\_\_\_

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

"This is (your name, title & affiliation).

You are being contacted per the Emergency Action Plan for the (name of dam).

Please be advised: A Dam (Advisory, Warning, or Breach) Condition has been identified at (name of dam).

Observation was at (time and date).

The situation is (explain the condition)."

*[Refer to Site Description, page #, for directions to the dam]*

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**Important !!! If you cannot contact an organization or individual promptly, proceed to the next contact on the Notification Flowchart. Try to re-contact the unavailable or busy number after you have contacted all others.**

## **TYPES OF DAM SAFETY EMERGENCIES THAT MIGHT BE EXPERIENCED**

**Advisory/ Non-failure condition (Condition C).** An unusual problem or situation has occurred, but failure of the dam is not expected. Examples are:

- Flow conditions are such that flooding is expected to occur downstream and/ or upstream of the dam, including sudden changes due to activation of large release works at the dam.
- Any undocumented or unusual spring or seep.
- Any sign of possible piping.
- Any sign of slumping.
- Any sinkhole.
- Any newly detected crack.
- Any unusual wet spot or boggy area.
- Any seismic event regardless of how slight.
- Any significant 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).

**Warning Condition (Condition B).** A potential failure situation is developing, but is still considered controllable. Some amount of time is still available for further analysis and decisions to be made before dam failure is likely. Examples of a Warning Condition are:

- Water level of the lake is at an unsafe level and is rising threatening to overtop the dam.
- Water is eroding the auxiliary or emergency spillway.
- Any developing erosion, settlement, or upheaval occurring on the downstream slope or at the toe of the dam that is considered to be controllable.
- Any undocumented leakage through any dam structure considered to be controllable.

**Emergency Condition (Condition A).** Failure is imminent or has occurred. There is no time left to attempt corrective measures to prevent failure. Examples of an Emergency Condition are:

- 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.
- 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.
- Dam is failing, about to fail or has failed.