



January 24, 2014

Re: Emergency Action Plan
Huntsville Dam – DEP No. D40-005

Dear Emergency Response Official:

Huntsville Dam is located in Lehman Township, Luzerne County, and is owned by the Pennsylvania American Water Company (PAW). This dam is classified by the Pennsylvania Department of Environmental Protection (DEP) as a Category 1 dam. This classification is based upon the fact that during the unlikely occurrence of a dam failure, loss of life due to floodwaters from a dam failure is possible. PAW has the responsibility to operate this dam in accordance with the DEP regulations, which includes having an Emergency Action Plan (EAP) prepared. This EAP was developed by the PAW in cooperation with the Luzerne and Columbia County Emergency Management Agencies. The plan was also reviewed and approved by the DEP and the Pennsylvania Emergency Management Agency (PEMA).

The purpose of the EAP is to safeguard the lives as well as to reduce property damage of the citizens living within the dams' potential downstream flood or inundation area. The plan will be used to provide for effective dam surveillance, prompt notification to local emergency management agencies, and citizen warning and evacuation response, when required. It will also aid to assign emergency actions to be taken by PAW, public officials, emergency personnel, and to outline response by residents in the unlikely event of a potential or imminent failure of the dam.

In accordance with DEP's regulations, PAW is required to distribute a copy of this EAP to each emergency response agency identified in sections 4.B. through 4.K. of this plan. Therefore, PAW is providing your office with an electronic copy of the EAP on CD for your use.

If you have any questions, please do not hesitate to contact me at (717) 790-3038.

Sincerely,

Tyson R. Clouser, P.E.
Project Engineer

KINGSTON FORTY FORT FIRE DEPARTMENT

FLOOD INCIDENT OPERATION PLAN

- 1 Once the flood protection wall goes up on the Market Street Bridge the emergency plan goes into effect with the approval of the Administration.
- 2 The Fire Dept. will go to a 24 hour shift schedule. No personnel will work more than 24 hours straight without the approval of the Fire Chief or the Deputy Chief.
- 3 The Fire Dept. would like to attain an on duty staffing level of 20 to 25 personnel which would be a combination of both career and volunteers. This staffing will be assigned to apparatus, specific jobs and locations by the OIC as the operations dictate. Once assigned; the personnel will fulfill those duties to the best of their abilities or until reassigned or relieved. Taking into account safety at all times.
- 4 Accountability of personnel will be handled by the senior officer on each shift. This accountability log will be maintained for in house personnel and for all personnel at out of station operations. This log will be updated and passed off to the senior officer who will be in charge of the oncoming shift. In the event that the operation HQ needs to be relocated to another location, and once the relocation order is given;
 - 1) updated roll call will be taken of all personnel preparing to make this move,
 - 2) new roll call to be taken as soon as possible at the new location to ensure that all personnel made this transition.If relocation is needed: All personnel on duty must be notified of this relocation.
 - 1) Using in house PA system
 - 2) a walk through search of the building
 - 3) a radio message to notify on duty staff, off duty staff and other stations and Luzerne Couth Communications Center of this relocation.A safe route of travel should be established for all vehicles and personnel. All personal vehicles should have been relocated to a safe area early in the incident. Shuttle service may need to be established to assist in this move. If any are remaining they should be moved in group at this time. During this move the FD must stay functional to answer as many calls for assistance as possible. The accountability log will need to be maintained during this move if personnel and apparatus are assigned a job.
- 5 Accountability of volunteer personnel will be maintained using the above listed log system, but with special attention being that these volunteer may have a need to rotate out of Hq and operations sooner than at normal shift change. Volunteers need to be informed of who is in charge at all levels and what their contribution to the overall operation will be.

- 6 The fire department will establish a list of extra vehicles and their location that are available for emergency operation use. This list will have a brief description of said vehicle, and will note its potential use and limits. i.e. (Seminary vans, LCTA, Luzerne County vehicles, etc.). Photos of each vehicle should be taken at the time the Dept. receives the vehicle and again when it is returned to its owner.
- 7 Once the Kingston Fire Dept. Operations Center goes active with a dedicated in house dispatch team the Luzerne County Communication Center/ EMA will be informed. This will establish a proper communications link for the betterment of the operation thus forming a one to one direct contact.
- 8 In changing Fire Headquarters from the standard station to the Operation Center certain items and offices will be relocated as directed by the OIC. This will enable the FD to continue operations at HQ and also to safeguard items for the future.
- 1) The Line Officers Office will become the Fire Chief Office. Items from the current Chiefs office will be relocated to this location as per his direction.
 - 2) Furniture and others items will be labeled and relocated to the second floor of HQ as directed by OIC or appointed person. Prior to an emergency a list should be developed and items tagged regarding this movement and storage of the noted items.
 - 3) A separate list of items that could and should be immediately relocated to a remote Kingston Operations Center needs to be developed. This limited list of essential items that would be necessary to maintain operations for an extended time period.
- 9 After a decision to leave Fire Headquarters is made and to relocate the Kingston Operations Center to another location certain things need to be done to safe guard Fire Headquarters.
- 1) Electric Generator- turn switch from standard Auto to Manual. This switch is located on the front of the generator.
 - 2) Shut and lock all doors.
 - 3) Shut off Main breakers at electric service.
 - 4) Sand bag doors.
- 10 Relocated/Remote Kingston Operations Center: There are a few fixed in place facilities that may be available for our use. 1) Pringle Borough Building 2) Pringle Volunteer Fire station 3) Part of West Side Tech Building (this maybe a shared occupancy- Nursing home). Improvements may need to be made at these locations to accommodate our communications needs. These should be made prior to the emergency. (Phone line, antenna, extra electric outlets etc.).
- 11 There is a need for lighting and generator combination units. These units would be used to provide a safe work scene while the flood walls are being erected at the Market St. Bridge and will be needed at other locations as the emergency develops.(sandbag operations etc.).
- 12 Kingston Fire Dept. must know the location of the storage and use areas for the Municipal portable pumps prior to the emergency. We may be directed to move and to place in service these pumps not the DPW.

EMERGENCY ACTION PLAN

SURVEILLANCE, WARNING AND EVACUATION PROCEDURES

**HUNTSVILLE DAM
DEP NUMBER D40-005**

**LOCATED ACROSS HUNTSVILLE CREEK
IN LEHMAN TOWNSHIP, LUZERNE COUNTY**

LATITUDE 41° 18' 28" LONGITUDE 75° 58' 28"

**SIZE CATEGORY "B"
HAZARD POTENTIAL CATEGORY "1"**

**OPERATED BY: PENNSYLVANIA AMERICAN WATER
MARK P. CROSS, PRODUCTION MANAGER**

**TELEPHONE: WORK: (570) 830-6505
24- HOUR: (570) 362-4297**

**OWNED BY: PENNSYLVANIA AMERICAN WATER
ADDRESS: 100 N. PENNSYLVANIA AVE
WILKES BARRE PA 18701
TELEPHONE: WORK: (570) 830-6505
24- HOUR: (570) 362-4297**

DATE: SEPTEMBER 2013

TABLE OF CONTENTS


PROMULGATION AND CONCURRENCE	ii
PEMA AND DEP APPROVALS	iii
I. PURPOSE AND SCOPE	1
II. SITUATION	1
III. CONCEPT OF OPERATIONS	1
IV. RESPONSIBILITIES AND DUTIES	3
V. ADMINISTRATION AND LOGISTICS	12
VI. AUTHORITY AND REFERENCES	13
VII. DEFINITIONS	14
VIII. EXERCISE AND TRAINING	16
IX. PLAN MAINTENANCE AND DISTRIBUTION	16

ATTACHMENTS

ATTACHMENT A	INUNDATION MAP
ATTACHMENT B	TRAFFIC CONTROL POINTS
ATTACHMENT C	LOCATION MAP
ATTACHMENT D	TELEPHONE ROSTER
ATTACHMENT E	MEDIA ANNOUNCEMENT
ATTACHMENT F	NOTICE

PROMULGATION AND CONCURRENCE

We, the undersigned, on date indicated, have reviewed the requested support activity in the Emergency Action Plan for the Huntsville Dam. Our support action will be executed in accordance with existing recommended operating guidelines and existing municipal or county emergency operation plans.



MARK CROSS, PRODUCTION MANAGER
DAM OWNER / OPERATOR

10/3/13

DATE

COORDINATOR, LUZERNE COUNTY EMA

DATE

COORDINATOR, COLUMBIA COUNTY EMA

DATE

PROMULGATION AND CONCURRENCE

We, the undersigned, on date indicated, have reviewed the requested support activity in the Emergency Action Plan for the Huntsville Dam. Our support action will be executed in accordance with existing recommended operating guidelines and existing municipal or county emergency operation plans.

MARK CROSS, PRODUCTION MANAGER
DAM OWNER / OPERATOR

DATE

Steph Behain

COORDINATOR, LUZERNE COUNTY EMA

10-4-13

DATE

COORDINATOR, COLUMBIA COUNTY EMA

DATE

PROMULGATION AND CONCURRENCE


We, the undersigned, on date indicated, have reviewed the requested support activity in the Emergency Action Plan for the Huntsville Dam. Our support action will be executed in accordance with existing recommended operating guidelines and existing municipal or county emergency operation plans.

MARK CROSS, PRODUCTION MANAGER
DAM OWNER / OPERATOR

DATE

COORDINATOR, LUZERNE COUNTY EMA

DATE



COORDINATOR, COLUMBIA COUNTY EMA

9/19/13

DATE

PEMA AND DEP APPROVALS

The Pennsylvania Emergency Management Agency approves the Emergency Action Plan for HUNTSVILLE DAM (D40-005).

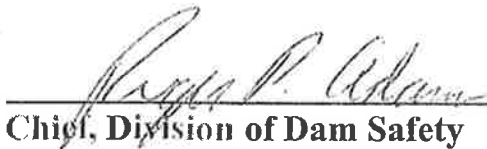


Director, PEMA Eastern Area Office



DATE

The Department of Environmental Protection, Division of Dam Safety, approves the Emergency Action Plan for HUNTSVILLE DAM (D40-005).



Chief, Division of Dam Safety



DATE

I. PURPOSE AND SCOPE

- A. To safeguard the lives as well as to reduce property damage of the citizens living within the dam's potential downstream flood or inundation area.
- B. To provide for effective dam surveillance, prompt notification to local emergency management agencies, citizen warning and evacuation response, when required.
- C. To identify emergency actions to be taken by the dam owner/operator, public officials, emergency personnel, and to outline response actions in the event of a potential or imminent failure of the dam.

II. SITUATION

- A. The dam is a 27-foot high anchored masonry arch dam with upstream earthfill used for water supply. The normal and maximum pool storage is 5,898 acre-feet (1,921.8 mg), and 6,957 acre-feet (2,226.9 mg), respectively.
- B. The dam is situated on Huntsville Creek, approximately 3 miles northwest of Trucksville in Luzerne County. Refer to Location Map included as **Attachment C**.
- C. The inundation area resulting from a sudden dam failure trends southeasterly adjacent to Huntsville Creek and Tony Creek to its confluence with the Susquehanna River at Larksville. The inundation area adjacent to the Susquehanna River trends southwesterly from Larksville to Mifflinville. See Inundation map included as **Attachment A**.
- D. Within the inundation area is a population of approximately 75,400 people. Refer to the Inundation Map at **Attachment A**.

III. CONCEPT OF OPERATIONS

A. SURVEILLANCE – NORMAL CONDITIONS - (DAM OWNER OR OPERATOR)

- 1. The dam operator or a designated representative will conduct an on-site visual inspection of the dam, the dam's spillway(s), control systems, and the toe area below the dam at a minimum of once every three months. Any abnormal or questionable conditions will be immediately brought to the attention of the owner's engineer and the Division of Dam Safety of DEP.

B. SURVEILLANCE – UNUSUAL EVENT CONDITIONS (DAM WATCH)

- 1. The dam operator or a designated representative will commence surveillance of conditions at the dam site when:
 - a. Severe thunderstorms, heavy rains with local flood warnings, tropical storms and hurricanes, or heavy rains with frozen ground and/or snow cover are occurring.
 - b. The National Weather Service issues a flash flood watch or warning and conditions warrant.
 - c. Any abnormal or questionable conditions as identified in Section III.D.1.

C. EARLY WARNING NOTIFICATION

1. The dam operator or a designated representative is responsible for determining the dam's threat potential. The following conditions constitute early warning notification to the Luzerne County PSAP/911 and require 24-hour around-the-clock surveillance.
 - a. The water level in the impoundment area has reached the threshold level of the top of the dam and is rising, or
 - b. Following the occurrence of an earthquake in the general region of the dam.
2. Early warning notification will be relayed from the Luzerne County PSAP/911 to the Luzerne County EMC, the PEMA State EOC and all applicable emergency responders and designated government officials and agencies. Refer to Section IV.B. for additional notifications.

D. WARNING AND EVACUATION NOTIFICATION

1. The dam operator or a designated representative is responsible for determining the dam's threat potential. The following conditions constitute a dam emergency requiring warning and evacuation notification to the Luzerne County PSAP/911.
 - a. The depth of flow over the top of dam is 4 feet. (Staff gage on the spillway might be needed), or
 - b. Imminent failure of this dam might be indicated by observance of one or more of the following conditions at the dam site:
 - i. The overflow pipe or spillway is damaged, or clogged with debris or ice, which is resulting in a rapid rise in the lake or pond level.
 - ii. The primary or auxiliary spillway is experiencing heavy flows which are causing severe erosion to the spillway or the dam embankment.
 - iii. Any structural movement or failure of the concrete spillway or the spillway abutment walls.
 - iv. Any sloughing or sliding of the embankment upstream or downstream slope. Also, earth slides in the spillway channel, either upstream or downstream of the dam's crest, which could impede the flow in the spillway.
 - v. Subsidence, sinkholes or cracks found in any part of the dam's embankment or abutting slopes.
 - vi. Any new discharge of water is observed through the dam's embankment or abutting slopes, adjacent to any conduit outlets, or under the dam, which appears as a boil along the downstream toe. If a discharge occurs and the water is cloudy or muddy in color, then a very serious problem exists.

2. Warning and evacuation notification will be relayed from the Luzerne County PSAP/911 to the Luzerne County EMC, the PEMA State EOC and all applicable emergency responders and designated government officials and agencies. Refer to Section IV.B. for additional notifications.
3. Emergency management officials will accomplish the needed actions, which are explained in this EAP, in accordance with their existing recommended operating guidelines and existing municipal or county emergency operation plans.
4. Warning and evacuation of the public must commence upon notification by the dam operator or a designated representative of a potential or imminent failure of the dam. Emergency responders should initiate action in accordance with the plan outline and any existing internal organizational recommended operating guidelines, and existing municipal or county operation plans.

E. TERMINATION OF SURVEILLANCE AND NOTIFICATIONS

1. The dam operator or a designated representative may terminate 24 -hour surveillance of dam site conditions when:
 - a. All National Weather Service flash flood watches or warnings have expired, **and**
 - b. Heavy rains have ended and the water level in the lake has dropped 0.5 feet below the top of the dam and is receding.
 - c. After a personal inspection of the dam site has been conducted by a knowledgeable professional engineer following an earthquake, overtopping of the dam, or an evacuation of the inundation area as a result of this EAP, or other serious problems resulting in a notification of a dam site emergency and the Department concurs with the results of the inspection.
2. Upon termination of 24 hour surveillance of dam site conditions, the dam owner shall notify the Luzerne County PSAP/911.
3. Termination of notifications will be relayed from the Luzerne County PSAP/911 to the Luzerne County EMC, the PEMA State EOC and all applicable emergency responders and designated government officials and agencies. Refer to Section IV.B. for additional notifications.

IV. RESPONSIBILITIES AND DUTIES - EMERGENCY RESPONSE

A. DAM OWNER OR DAM OPERATOR (DAM SITE EMERGENCY)

1. The dam operator or a designated representative will provide for 24-hour on-site dam surveillance and monitoring as required in Section III.C.1. and initiate early warning notification to the Luzerne County PSAP/911.
2. When the situation meets the criteria under the warning and evacuation notification guidelines, presented in Section III.D.1, indicating a failure of the dam is possible or a significant threat condition is developing, the dam operator

or a designated representative will initiate warning and evacuation communication to the Luzerne County PSAP/911.

B. LUZERNE COUNTY PSAP/911

1. The Luzerne County PSAP/911 will notify:

a. Luzerne County EMA

b. Columbia County PSAP/911

c. PEMA State EOC

d. Police Departments:

Lehman Township

Kingston Township

Courtdale Borough

Luzerne Borough

Swoyersville Borough

Plains Township

Wilkes-Barre City

Pringle Borough

Edwardsville Borough

Larksville Borough

Plymouth Borough

Ashley Borough

Hanover Township

Nanticoke City

Plymouth Township

Shickshinny Borough

Salem Township

Conyngham Township

Nescopeck Township

Pennsylvania State Police - Wyoming

e. Fire Departments:

Kingston Township Fire Department

Courtdale Borough Fire Department

Swoyersville Borough Fire Department

Forty-Fort Borough Fire Department

Plains Township Fire Department

Wilkes-Barre City Fire Department

Pringle Borough Fire Department

Edwardsville Borough Fire Department

Larksville Borough Fire Department

Hanover Township Fire Department

Nanticoke City Fire Department
Plymouth Township Fire Department
Shickshinny Borough Fire Department
Conyngham Township Fire Department
Nescopeck Township Fire Department
Berwick Borough Fire Department
Lehman Volunteer Fire and Ambulance
Jackson Township Volunteer Fire Company
Jackson Township Volunteer Fire and Ambulance
Courtdale Volunteer Hose Company
Luzerne Volunteer Fire Department
Swoyersville Volunteer Fire Company No. 1
Swoyersville Hose Company No. 2
Swoyersville Volunteer Hose Company No. 2
Forty-Fort Volunteer Fire Company
Plymouth Borough Hose Company No. 1
Plymouth Borough Hose Company No. 2
Plymouth Borough Hose Company No. 3
Ashley Rescue Hose Company No. 1
Hanover Fire Company No. 4
Stickney Fire Company No. 1
Stickney Fire Company No. 2
Honeypot Volunteer Hose Company No. 6
Pioneer Hook and Ladder
Washington Fire Company No. 5
Hunlock Creek Volunteer Fire Department
Sugarloaf Fire Company
Nescopeck Township Volunteer Fire Company

f. Emergency Medical Services:

Lehman Township EMS
Jackson Township EMS
Kingston Township EMS
Courtdale Borough EMS
Luzerne Borough EMS
Swoyersville Borough EMS
Forty-Fort Borough EMS
Plains Township EMS
Wilkes-Barre City EMS
Pringle Borough EMS
Edwardsville Borough EMS
Larksville Borough EMS
Plymouth Borough EMS
Ashley Borough EMS
Hanover Township EMS
Nanticoke City EMS

Plymouth Township EMS
Hunlock Township EMS
Shickshinny Borough EMS
Salem Township EMS
Conyngham Township EMS
Nescopeck Township EMS

C. LUZERNE COUNTY EMA

1. The Luzerne County EMA will contact the following personnel and agencies:

a. National Weather Service

b. Municipal EMAs

Lehman Township EMA

Jackson Township EMA

Kingston Township EMA

Courtdale Borough EMA

Luzerne Borough EMA

Swoyersville Borough EMA

Forty-Fort Borough EMA

Plains Township EMA

Wilkes-Barre City EMA

Pringle Borough EMA

Edwardsville Borough EMA

Larksville Borough EMA

Plymouth Borough EMA

Ashley Borough EMA

Hanover Township EMA

Nanticoke City EMA

Plymouth Township EMA

Hunlock Township EMA

Shickshinny Borough EMA

Salem Township EMA

Conyngham Township EMA

Nescopeck Township EMA

c. Media - Warning and/or Evacuation (Activate EAS). Refer to Attachment E

d. Luzerne County EOC staff, as necessary

e. American Red Cross - Wyoming Valley Chapter (when mass care or family assistance is required). Coordinate sheltering per ESF 6 of County EOP.

f. Luzerne County elected officials

g. School Districts:

Nanticoke Area School District

Lake Lehman School District

Northwest Area School District

Wyoming Valley School District

- h. Pennsylvania Emergency Management Agency
- i. PennDOT - District 4-3

- 2. The Luzerne County EMA will ascertain and report to PEMA any unmet needs requirements.
- 3. The Luzerne County EMA will initiate Damage Assessment and Recovery procedures as the situation requires.

D. COLUMBIA COUNTY PSAP/911

- 1. The Columbia County PSAP/911 will notify:
 - a. Columbia County EMA
 - b. Police Departments:
 - Berwick Borough
 - South Centre Township
 - c. Fire Departments:
 - Mifflinville Fire Company and Forest Rangers
 - West Berwick Hose Company
 - East Berwick Hose Company No. 2
 - Eagle Hose Company No. 2
 - Ranger Hose Company
 - Defender Hose Company
 - Reliance Fire Company
 - Lime Ridge Fire Company
 - d. Emergency Medical Services:
 - Berwick Ambulance

E. COLUMBIA COUNTY EMA

- 1. The Columbia County EMA will contact the following personnel and agencies:
 - a. Municipal EMAs
 - Mifflin Township EMA
 - Berwick Borough EMA
 - Briar Creek Borough EMA (same as Berwick Borough EMA)
 - South Centre Township EMA
 - b. Media - Warning and/or Evacuation (Activate EAS). Refer to Attachment E
 - c. Columbia County EOC staff, as necessary
 - e. American Red Cross – Greater Berwick Chapter (when mass care or family assistance is required). Coordinate sheltering per ESF 6 of County EOP.
 - f. Columbia County elected officials
 - g. School Districts:
 - Berwick Area School District
 - h. Pennsylvania Emergency Management Agency

- i. PennDOT - District 3-1
- 2. The Columbia County EMA will ascertain and report to PEMA any unmet needs requirements.
- 3. The Columbia County EMA will initiate Damage Assessment and Recovery procedures as the situation requires.

F. LOCAL MUNICIPAL EMAs

- Lehman Township EMA
- Jackson Township EMA
- Kingston Township EMA
- Courtdale Borough EMA
- Luzerne Borough EMA
- Swoyersville Borough EMA
- Forty-Fort Borough EMA
- Plains Township EMA
- Wilkes-Barre City EMA
- Pringle Borough EMA
- Edwardsville Borough EMA
- Larksville Borough EMA
- Plymouth Borough EMA
- Ashley Borough EMA
- Hanover Township EMA
- Nanticoke City EMA
- Plymouth Township EMA
- Hunlock Township EMA
- Shickshinny Borough EMA
- Salem Township EMA
- Conyngham Township EMA
- Nescopeck Township EMA
- Mifflin Township EMA
- Berwick Borough EMA
- Briar Creek Township EMA
- South Centre Township EMA

- 1. Advise facilities with special needs individuals as outlined in the Emergency Operations Plan (EOP) and identified by the Hazard Vulnerability Analysis (areas impacted due to a dam failure and indicated on the Inundation Map).
- 2. Notify municipal elected officials and municipal services (water, sewer, etc.).
- 3. Keep the County EMA apprised of the situation.
- 4. Coordinate the evacuation (where appropriate).
- 5. Provide damage reporting to the County EMC.

G. FIRE DEPARTMENTS

Kingston Township Fire Department
Courtdale Borough Fire Department
Swoyersville Borough Fire Department
Forty-Fort Borough Fire Department
Plains Township Fire Department
Wilkes-Barre City Fire Department
Pringle Borough Fire Department
Edwardsville Borough Fire Department
Larksville Borough Fire Department
Hanover Township Fire Department
Nanticoke City Fire Department
Plymouth Township Fire Department
Shickshinny Borough Fire Department
Conyngham Township Fire Department
Nescopeck Township Fire Department
Berwick Borough Fire Department
Lehman Volunteer Fire and Ambulance
Jackson Township Volunteer Fire Company
Jackson Township Volunteer Fire and Ambulance
Courtdale Volunteer Hose Company
Luzerne Volunteer Fire Department
Swoyersville Volunteer Fire Company No. 1
Swoyersville Hose Company No. 2
Swoyersville Volunteer Hose Company No. 2
Forty-Fort Volunteer Fire Company
Plymouth Borough Hose Company No. 1
Plymouth Borough Hose Company No. 2
Plymouth Borough Hose Company No. 3
Ashley Rescue Hose Company No. 1
Hanover Fire Company No. 4
Stickney Fire Company No. 1
Stickney Fire Company No. 2
Honeypot Volunteer Hose Company No. 6
Pioneer Hook and Ladder
Washington Fire Company No. 5
Hunlock Creek Volunteer Fire Department
Sugarloaf Fire Company
Nescopeck Township Volunteer Fire Company
Mifflinville Fire Company and Forest Rangers
West Berwick Hose Company
East Berwick Hose Company No. 2
Eagle Hose Company No. 2

Ranger Hose Company
Defender Hose Company
Reliance Fire Company
Lime Ridge Fire Company

1. Provide citizen notification and route alerting to advise residents living within their jurisdiction (See Inundation Map - Attachment A).
2. Assist in evacuation.
3. Assist police and EMS, as requested.
4. Provide communications support if feasible and requested.

H. POLICE SERVICES

Lehman Township
Kingston Township
Courtdale Borough
Luzerne Borough
Swoyersville Borough
Plains Township
Wilkes-Barre City
Pringle Borough
Edwardsville Borough
Larksville Borough
Plymouth Borough
Ashley Borough
Hanover Township
Nanticoke City
Plymouth Township
Shickshinny Borough
Salem Township
Conyngham Township
Nescopeck Township
Pennsylvania State Police – Wyoming
Berwick Borough
Briar Creek Township
South Centre Township

1. Dispatch radio vehicle to dam site in order to provide alternate communications link to PSAP/911 – Pennsylvania State Police - Wyoming.
2. Assist evacuation traffic flow and establish traffic control points (TCP) at pre-designated locations (See Inundation Map – Attachment A and Traffic Control Points – Attachment B).
3. Prevent unauthorized entry and provide security of evacuated areas.
4. Provide assistance with route alerting, if requested.

I. EMERGENCY MEDICAL SERVICES (EMS)

Lehman Township EMS
Jackson Township EMS
Kingston Township EMS
Courtdale Borough EMS
Luzerne Borough EMS
Swoyersville Borough EMS
Forty-Fort Borough EMS
Plains Township EMS
Wilkes-Barre City EMS
Pringle Borough EMS
Edwardsville Borough EMS
Larksville Borough EMS
Plymouth Borough EMS
Ashley Borough EMS
Hanover Township EMS
Nanticoke City EMS
Plymouth Township EMS
Hunlock Township EMS
Shickshinny Borough EMS
Salem Township EMS
Conyngham Township EMS
Nescopeck Township EMS
Berwick Ambulance

1. Provide evacuation transportation assistance and coordinate with designated fire services agencies for transportation of persons with disabilities and any special needs.
2. Assist fire and police departments as requested.
3. Provide EMS support to any mass care center as requested.

J. AMERICAN RED CROSS

1. Wyoming Valley Chapter (If requested by Luzerne County EMA)
2. Greater Berwick Chapter (If requested by Columbia County EMA)
 - a. Identify and activate an appropriate shelter, as necessary.
 - b. Support and maintain operations of the reception center.
 - c. Maintain communications with County EMC, local EMA and reception center.

K. PENNSYLVANIA DEPARTMENT OF TRANSPORTATION (PennDOT)

1. Provide services, signs, barricades and guidance on roads and bridges affecting the evacuation and recovery.

V. ADMINISTRATION AND LOGISTICS

A. The NOTICE (Attachment F) will be posted in the following public places located within or near the inundation area:

1. Lehman Township Building
2. Jackson Township Building
3. Kingston Township Building
4. Courtdale Borough Building
5. Luzerne Borough Building
6. Swoyersville Borough Building
7. Forty-Fort Borough Building
8. Plains Township Building
9. Wilkes-Barre City Building
10. Pringle Borough Building
11. Edwardsville Borough Building
12. Larksville Borough Building
13. Plymouth Borough Building
14. Ashley Borough Building
15. Hanover Township Building
16. Nanticoke City Building
17. Plymouth Township Building
18. Hunlock Township Building
19. Shickshinny Borough Building
20. Salem Township Building
21. Conyngham Township Building
22. Nescopeck Township Building
23. Mifflin Township Building
24. Berwick Borough Building
25. Briar Creek Borough Building
26. South Centre Township Building
27. Weis Market
28. Morris Family Restaurant

B. The NOTICE (Attachment F) must state that copies of the Emergency Action Plan for this dam are available for inspection at the following locations:

1. Luzerne County Emergency Management Agency Office, 185 Water Street, Wilkes-Barre, PA 18711
2. Columbia County Emergency Management Agency Office, 26 West 1st Street – Rear, Bloomsburg, PA 17815
3. Pennsylvania American Water Company, 100 N. Pennsylvania Ave., Wilkes-Barre, PA 18701
4. Lehman Township EMA, 1183 Old Route 115, Dallas, PA 18612
5. Jackson Township EMA, 2211 Huntsville Road, Jackson Township, PA 18708

6. Kingston Township EMA, 180 East Center Street, Shavertown, PA 18708
7. Courtdale Borough EMA, 5 Blackman Street, Courtdale, PA 18704
8. Luzerne Borough EMA, 144 Academy Street, Luzerne, PA 18709
9. Swoyersville Borough EMA, 675 Main Street, Swoyersville, PA 18704
10. Forty-Fort Borough EMA, 1271 Wyoming Ave., Forty Fort, PA 18704
11. Plains Township EMA, 126 North Main Street, Plains, PA 18705
12. Wilkes-Barre City EMA, 40 East Market Street, Wilkes Barre, PA 18711
13. Pringle Borough EMA, 89 Evans Street, Pringle, PA 18704
14. Edwardsville Borough EMA, 470 Main Street, Edwardsville, PA 18704
15. Larksville Borough EMA, 211 East State Street, Larksville, PA 18704
16. Plymouth Borough EMA, 162 West Shawnee Ave., Plymouth, PA 18651
17. Ashley Borough EMA, 10 North Main St., Ashley, PA 18706
18. Hanover Township EMA, 1267 Sans Souci Parkway, Hanover Township, PA 18706
19. Nanticoke City EMA, 15 East Ridge Street, Nanticoke, PA 18634
20. Plymouth Township EMA, 925 West Main Street, Plymouth, PA 18651
21. Hunlock Township EMA, 33 Village Drive, Hunlock Creek, PA 18621
22. Shickshinny Borough EMA, 35 West Union Street, Shickshinny, PA 18655
23. Salem Township EMA, 38 Bomboy Lane, Berwick, PA 18603
24. Conyngham Township EMA, 10 Pond Hill Road, Mocanaqua, PA 18655
25. Nescopeck Township EMA, 429 Berwick-Hazleton Highway, Nescopeck, PA 18635
26. Mifflin Township EMA, 201 1st St., Mifflinville, PA 18631
27. Berwick Borough EMA, 1800 N. Market Street, Berwick, PA 18603
28. South Centre Township EMA, 6260 4th Street, Bloomsburg, PA 17815

- C. A new NOTICE will be sent to those locations in paragraph "A" when the EAP is revised.
- D. The dam operator or designated representative is responsible to verify posting of the NOTICE and documenting the status in the annual inspection report.

VI. AUTHORITY AND REFERENCES

A. AUTHORITY

1. The Dam Safety and Encroachments Act (32 P.S. Sections 693.1-693.27), May 16, 1985.
2. The Pennsylvania Code - Title 25, Chapter 105 Dam Safety and Waterways Management, Section 105.63 and 105.134.
3. Emergency Management Services Code, 35 Pa C.S. Section 7101 et seq., as amended.

B. REFERENCES

1. Guidelines for Developing an Emergency Action Plan for Hazard Category 1, 2, and 3 Dams. Prepared by the Department of Environmental Protection, Water Management, Bureau of Waterways Engineering, Division of Dam Safety and the Pennsylvania Emergency Management Agency, January 2009.
2. Inspection, Maintenance and Operation of Dams in Pennsylvania. Prepared by the Department of Environmental Protection, Water Management, Bureau of Waterways Engineering, Division of Dam Safety, February 2009.
3. Luzerne County Emergency Operations Plan.
4. Columbia County Emergency Operations Plan.

VII. DEFINITIONS

- A. **ABUTMENT** - The part of the valley's hillside against which the dam abuts. Right and left abutments are those on respective sides of the dam as an observer looks downstream.
- B. **AFFECTED COUNTIES/MUNICIPALITIES** - Those jurisdictions within Pennsylvania or adjoining states that, according to the inundation map, may experience flooding as a result of a failure of the dam.
- C. **BOIL** - A disturbance in the surface layer of soil caused by water escaping under pressure from behind a water-retaining structure such as a dam or a levee. The boil may be accompanied by deposition of soil particles (usually sand or silt) in the form of a ring (miniature volcano) around the area where the water escapes.
- D. **BREACH** - An opening or a breakthrough of a dam sometimes caused by rapid erosion of a section of earth embankment by water.
- E. **CONDUIT** - A pipe used to convey water through or around or under a dam.
- F. **CONTROL TOWER** - A structure in the dam or reservoir used to control withdraw of water from the reservoir through pipes or culverts.
- G. **CREST OF DAM** - The crown of an overflow section of the dam. In the United States, the term "crest of dam" is often used when "top of dam" is intended. To avoid confusion, the terms **crest of spillway** and **top of dam** should be used for referring to the overflow section and dam proper, respectively.
- H. **CULVERT** - (a) A drain or waterway structure built transversely under a road, railway, or embankment. A culvert usually comprises a pipe or a covered channel of box section. (b) A gallery or waterway constructed through any type of dam, which is normally dry but is used occasionally for discharging water; hence the terms scour culvert, drawoff culvert and spillway culvert.
- I. **DAM** - A barrier built across a watercourse for impounding or diverting the flow of water.
- J. **DAM FAILURE** - The uncontrolled release of a dam's impounded water. It is recognized that there are degrees of failure. Any malfunction or abnormality, outside the design assumptions and parameters, which adversely affect a dam's primary function of impounding water is properly considered a failure. Minor malfunctions or abnormalities can result in a sudden failure of a dam.
- K. **EARTH DAM (EARTHFILL DAM)** - An embankment dam in which more than 50% of the total volume is formed of compacted fine-grained earth.
- L. **EMBANKMENT** - Fill material, usually earth or rock, placed with sloping sides.

- M. **EMERGENCY** - A condition of serious nature which develops unexpectedly and endangers the structural integrity of a dam or endangers downstream property and human life. An emergency requires immediate action.
- N. **EAP** – Emergency Action Plan - A formal document that identifies potential emergency conditions at a dam and specifies preplanned actions to be followed to minimize property damage and loss of life. It contains procedures and information to assist the dam owner in issuing early warning and notification messages to responsible downstream emergency management authorities of the emergency situation. It also contains inundation maps to show the emergency management authorities of the critical areas for action in case of an emergency.
- O. **EOP** – Emergency Operations Plan - “The document ... which describes the hazards, vulnerabilities, emergency management situations and assumptions that affect the municipality, the concept of operations during an emergency, and the various roles and assignments of the elected officials, emergency management coordinator and other emergency response personnel, whether paid or volunteer.” (From PEMA Directive D2007-1). The EOP includes checklists for known critical facilities, special facilities, critical personnel, hearing impaired residents, non-English speaking residents, residents requiring ambulance assistance, etc., as identified by local emergency management officials.
- P. **FACE** - With reference to a structure, the external surface that limits the structure, e.g., the face of a wall or dam.
- Q. **FAILURE** - An incident resulting in the uncontrolled release of water from an operating dam. See “Dam Failure”.
- R. **FOUNDATION OF DAM** - The natural material on which the dam structure is placed.
- S. **GROIN** - That area along the contact (or intersection) of the face of a dam with the abutment.
- T. **HAZARD** - A situation which creates the potential for adverse consequences such as loss of life, property damage, and adverse social and environmental impacts. Impacts may be for a defined area downstream of a dam from flood-waters released through spillways and outlet works of the dam or waters released by partial or complete failure of the dam. This could include an area upstream of the dam from effects of backwater flooding or effects of landslides around the reservoir perimeter.
- U. **INUNDATION AREA** - The downstream area that would be flooded or otherwise affected by the failure of a dam or large flows. This area can be subject to a fast moving flood wave, 20 to 50 MPH is common, with a height of 1 foot to tens of feet.
- V. **INUNDATION MAP** - A map delineating the area that would probably be flooded in the event of a dam failure. This map must be prepared by a registered professional engineer.
- W. **NOTIFICATION** - To promptly inform appropriate individuals or emergency agency about an emergency condition so they can initiate appropriate actions.
- X. **NORMAL WATER LEVEL (NORMAL WATER POOL)** - For reservoir with a fixed overflow spillway crest, it is the lowest level of that crest.
- Y. **OPERATOR** - The person or position in a company or organization, who is responsible for a dam’s operation and surveillance.
- Z. **OUTLET** - A constructed opening through which water can be safely discharged for a particular purpose from a reservoir.

- AA. **OWNER** - Any person, authority or agency that manages a dam or reservoir.
- BB. **PSAP** - Public Safety Answering Point - an agency in the United States, typically county or city controlled, responsible for answering 9-1-1 calls for emergency assistance from police, fire, and ambulance services.
- CC. **SEEPAGE** - The movement of water that might occur through the dam, its foundation or its abutments. Small amounts of clear water seepage is normal. Increase in the amount of water flow or change in color is a concern for a dam's safety.
- DD. **SLIDE** - The movement of a mass of earth down a slope. In embankments and abutments, this involves the separation of a portion of the slope from the surrounding materials.
- EE. **SPILLWAY** - A structure over or through which flows are discharged. If the flow is controlled by gates, it is considered a controlled spillway; if the elevation of the spillway crest is the only control, it is considered an uncontrolled spillway.
- FF. **SPILLWAY CHANNEL** - A channel conveying water from the spillway crest to the river downstream.
- GG. **TOE OF DAM** - The junction of the downstream face of a dam with the ground surface. Also referred to as downstream toe. For an embankment dam, the junction of the upstream face with ground surface is called the upstream toe.
- II. **TOP OF DAM** - The elevation of the uppermost surface of a dam, usually a road or walkway, excluding any parapet wall, railings, etc.
- JJ. **TRAFFIC CONTROL POINT (TCP)** – Manned or unmanned posts established at critical road junctions for the purpose of controlling or limiting traffic. TCPs are used to control evacuation movement and also limit entry into the inundation area when an emergency situation requires it.
- KK. **VOAD** - Voluntary Organizations Active in Disasters - collaboration of diverse organizations and citizens trained to meet community needs in the wake of a large-scale disaster.

VIII. EXERCISE AND TRAINING

The dam owner will advise and cooperate with the Luzerne and Columbia County EMAs of any exercises scheduled, and coordinate with the Luzerne and Columbia County EMAs to exercise all or portions of this EAP as part of the county's all-hazard exercise program schedule.

IX. PLAN MAINTENANCE AND DISTRIBUTION

- A. This EAP will be reviewed every five years by the owner or the owner's engineer. During the five year review:
 1. The owner or the owner's engineer will conduct an on-site review of the flood (inundation) area for any increase in downstream development and revise the Inundation Map, if needed.
 2. The owner's engineer will review and revise surveillance conditions as needed.
 3. The owner will coordinate with Luzerne and Columbia County EMAs if population increase or development within the inundation area could affect the

emergency response requirements. If so, a new or revised plan must be developed.

4. The owner will meet with and obtain concurrence from the Luzerne and Columbia County EMC(s).
 5. The owner will submit 6 copies at a minimum of the revised plan to DEP for review and approval.
- B. A copy of the approved EAP will be distributed by the dam owner to those emergency response agencies listed in Section IV. DEP, Division of Dam Safety will distribute a copy of the approved EAP to PEMA's Area Office, the affected county Emergency Management Agency(s) and PSAP/911 Center(s), the National Weather Service, and the DEP's Regional Office. Within 60 days, the dam owner will submit a letter certifying distribution of the approved EAP and posting of NOTICE(s) to the DEP, Division of Dam Safety.

ATTACHMENTS:

- ATTACHMENT A** INUNDATION MAP
- ATTACHMENT B** TRAFFIC CONTROL POINTS
- ATTACHMENT C** LOCATION MAP
- ATTACHMENT D** TELEPHONE ROSTER
- ATTACHMENT E** MEDIA ANNOUNCEMENT
- ATTACHMENT F** NOTICE

**ATTACHMENT A
INUNDATION MAPS**

ATTACHMENT B

TRAFFIC CONTROL POINTS

NOTE: Manning of the TCPs will be determined by the local municipal EMA office prior to and for an event.

TCP	LOCATION	RESPONSIBLE AGENCY
TCP-1	Old Route 115 north of Huntsville Road	Lehman Township Police Department
TCP-2	Church Road north of Huntsville Road	Pennsylvania State Police, Wyoming
TCP-3	Follies Road west of Huntsville Road	Pennsylvania State Police, Wyoming
TCP-4	Chase Road south of Huntsville Road	Pennsylvania State Police, Wyoming
TCP-5	Route 309 north of Main Street	Courtdale Borough Police Department
TCP-6	Main Street at Route 309	Luzerne Borough Police Department
TCP-7	Courtdale Avenue east of Cooper Street	Courtdale Borough Police Department
TCP-8	Route 309 west of Evans Street	Luzerne Borough Police Department
TCP-9	Huntsville Road at Overbrook Road	Lehman Township Police Department
TCP-10	Sutton Road east of Huntsville Road	Pennsylvania State Police, Wyoming
TCP-11	Sutton Road at Blueberry Hill Road	Pennsylvania State Police, Wyoming
TCP-12	Sutton Road at Gross Road	Pennsylvania State Police, Wyoming
TCP-13	Church Road north of Hillside Road	Kingston Township Police Department
TCP-14	Route 309 at Carverton Road	Kingston Township Police Department
TCP-15	Parry Street at Williard Street	Luzerne Borough Police Department
TCP-16	Main Street at Kelly Street	Luzerne Borough Police Department
TCP-17	Hughes Street at Kelly Street	Luzerne Borough Police Department
TCP-18	Bennett Street north of Jackson Street	Luzerne Borough Police Department
TCP-19	Miller Street north of Jackson Street	Luzerne Borough Police Department
TCP-20	Oliver Street at Main Street	Swoyersville Borough Police Department
TCP-21	Chestnut Street at Main Street	Swoyersville Borough Police Department
TCP-22	Slocum Street at Main Street	Swoyersville Borough Police Department
TCP-23	Shoemaker Street at Main Street	Swoyersville Borough Police Department
TCP-24	Birch Drive at Main Street	Swoyersville Borough Police Department
TCP-25	Main Street at Sycamore Drive	Swoyersville Borough Police Department
TCP-26	Warsaw Street at Hill Street	Swoyersville Borough Police Department
TCP-27	Owen Street at Hill Street	Swoyersville Borough Police Department
TCP-28	Main Street at Dennison Street	Swoyersville Borough Police Department
TCP-29	Townsend Avenue at Dennison Street	Swoyersville Borough Police Department
TCP-30	Noyes Avenue at Dennison Street	Swoyersville Borough Police Department
TCP-31	Park Avenue at Dennison Street	Swoyersville Borough Police Department
TCP-32	Maltby Avenue at Dennison Street	Swoyersville Borough Police Department
TCP-33	Lackawanna Avenue at Dennison Street	Swoyersville Borough Police Department
TCP-34	Murray Street at Dennison Street	Pennsylvania State Police, Wyoming
TCP-35	Route 11 at Dennison Street	Pennsylvania State Police, Wyoming
TCP-36	River Road north of McCullough Road	Plains Township Police Department
TCP-37	Saint David Street at Saint Mary Street	Plains Township Police Department
TCP-38	River Road at Hancock Street	Plains Township Police Department
TCP-39	River Road at Mack Street	Plains Township Police Department

TCP-40	Helen Street at Sarah Street	Plains Township Police Department
TCP-41	Parkview Drive at High Street	Plains Township Police Department
TCP-42	Price Street at High Street	Plains Township Police Department
TCP-43	Wyoming Street at Amesbury Street	Plains Township Police Department
TCP-44	Poplar Street at Amesbury Street	Plains Township Police Department
TCP-45	Haines Street at Warner Street	Plains Township Police Department
TCP-46	Warner Street west of Haines Street	Plains Township Police Department
TCP-47	Hollenback Street at Maffett Street	Plains Township Police Department
TCP-48	River Road at Maffett Street	Plains Township Police Department
TCP-49	Main Street south of SR 309	Plains Township Police Department
TCP-50	Sidney Street at Miller Street	Wilkes-Barre City Police Department
TCP-51	Main Street at Miller Street	Wilkes-Barre City Police Department
TCP-52	Main Street at Adams Street	Wilkes-Barre City Police Department
TCP-53	Saint Clair Street at Thomas Street	Wilkes-Barre City Police Department
TCP-54	Stucker Avenue at Woodward Street	Wilkes-Barre City Police Department
TCP-55	Gardner Avenue at Woodward Street	Wilkes-Barre City Police Department
TCP-56	Mill Street at Gills Lane	Wilkes-Barre City Police Department
TCP-57	Austin Avenue at Mill Street	Wilkes-Barre City Police Department
TCP-58	Matson Avenue at Mill Street	Wilkes-Barre City Police Department
TCP-59	Maiden Lane at Mill Street	Wilkes-Barre City Police Department
TCP-60	George Avenue at Mill Street	Wilkes-Barre City Police Department
TCP-61	Gore Street at Mill Street	Wilkes-Barre City Police Department
TCP-62	Espy Street at Mill Street	Wilkes-Barre City Police Department
TCP-63	Cross Valley Expressway North at Exit No. 1	Wilkes-Barre City Police Department
TCP-64	Conyngham Avenue at Bowman Street	Wilkes-Barre City Police Department
TCP-65	Wilkes-Barre Boulevard at Bulter Street	Wilkes-Barre City Police Department
TCP-66	Kidder Street at Hortense Street	Wilkes-Barre City Police Department
TCP-67	Scott Street at Chapel Street	Wilkes-Barre City Police Department
TCP-68	Coal Street at Welles Street	Wilkes-Barre City Police Department
TCP-69	Market Street at Welles Street	Wilkes-Barre City Police Department
TCP-70	Northampton Street at Welles Street	Wilkes-Barre City Police Department
TCP-71	South Street at Welles Street	Wilkes-Barre City Police Department
TCP-72	Hill Street at Park Avenue	Wilkes-Barre City Police Department
TCP-73	Lehigh Street at Park Avenue	Wilkes-Barre City Police Department
TCP-74	Metcalf Street at Park Avenue	Wilkes-Barre City Police Department
TCP-75	Hutson Street at Dana Street	Wilkes-Barre City Police Department
TCP-76	Hickory Street at Dana Street	Wilkes-Barre City Police Department
TCP-77	Hazle Street at Dana Street	Wilkes-Barre City Police Department
TCP-78	Dana Street at Grove Street	Wilkes-Barre City Police Department
TCP-79	McCarragher Street at Grove Street	Wilkes-Barre City Police Department
TCP-80	High Street at Moyallen Street	Wilkes-Barre City Police Department
TCP-81	River Road at Auburn Street	Wilkes-Barre City Police Department
TCP-82	North Franklin Street at Elm Street	Wilkes-Barre City Police Department
TCP-83	Main Street at Chestnut Street	Wilkes-Barre City Police Department
TCP-84	North Washington Street at Chestnut Street	Wilkes-Barre City Police Department
TCP-85	North Pennsylvania Avenue at Linden Street	Wilkes-Barre City Police Department

TCP-86	North Pennsylvania Avenue at Thompson Street	Wilkes-Barre City Police Department
TCP-87	Wyoming Street at Butler Street	Wilkes-Barre City Police Department
TCP-88	North Washington Street at Butler Street	Wilkes-Barre City Police Department
TCP-89	Madison Street at Beaumont Street	Wilkes-Barre City Police Department
TCP-90	Main Street at Beaumont Street	Wilkes-Barre City Police Department
TCP-91	Franklin Street at North Street	Wilkes-Barre City Police Department
TCP-92	North Street at Darling Street	Wilkes-Barre City Police Department
TCP-93	River Road at Tannery Street	Wilkes-Barre City Police Department
TCP-94	Reichard Street west of N River Street	Wilkes-Barre City Police Department
TCP-95	Water Street at Reichard Street	Wilkes-Barre City Police Department
TCP-96	Grove Street at Evans Street	Pringle Borough Police Department
TCP-97	Division Street at Grove Street	Pringle Borough Police Department
TCP-98	Pringle Street at Grove Street	Pringle Borough Police Department
TCP-99	Penn Street at Grove Street	Pringle Borough Police Department
TCP-100	Grove Street at Hurbane Street	Pringle Borough Police Department
TCP-101	Myers Street at Williams Street	Edwardsville Borough Police Department
TCP-102	Roosevelt Street at Williams Street	Edwardsville Borough Police Department
TCP-103	Lawrence Street at Williams Street	Edwardsville Borough Police Department
TCP-104	Grove Street at Lloyds Lane	Edwardsville Borough Police Department
TCP-105	Main Street at Pugh Street	Edwardsville Borough Police Department
TCP-106	Church Street at Bunny Lane	Edwardsville Borough Police Department
TCP-107	Short Street at Swallow Street	Edwardsville Borough Police Department
TCP-108	Green Street at Swallow Street	Edwardsville Borough Police Department
TCP-109	Hillside Avenue at Swallow Street	Edwardsville Borough Police Department
TCP-110	Tobin Lane at Flynn Avenue	Edwardsville Borough Police Department
TCP-111	Route 11 at Lower Road	Larksville Borough Police Department
TCP-112	Route 11 at Boston Hill	Larksville Borough Police Department
TCP-113	Church Street at Nesbitt Street	Larksville Borough Police Department
TCP-114	Chestnut Street at Buttonwood Lane	Larksville Borough Police Department
TCP-115	Route 11 at Bridge Street	Plymouth Borough Police Department
TCP-116	Route 11 at Jeanette Street	Plymouth Borough Police Department
TCP-117	Palmer Street at Jeanette Street	Plymouth Borough Police Department
TCP-118	Shonk Street at Pierce Street	Plymouth Borough Police Department
TCP-119	Gould Street east of Vince Street	Plymouth Borough Police Department
TCP-120	Vine Street at West Broadway Street	Plymouth Borough Police Department
TCP-121	Washington Avenue at Carver Street	Plymouth Borough Police Department
TCP-122	Cherry Street at High Street	Plymouth Borough Police Department
TCP-123	Center Avenue at Shawnee Avenue	Plymouth Borough Police Department
TCP-124	Gaylord Avenue at Shawnee Avenue	Plymouth Borough Police Department
TCP-125	Girard Avenue at Shawnee Street	Plymouth Borough Police Department
TCP-126	West Poplar Street at 1st Street	Plymouth Borough Police Department
TCP-127	Shawnee Avenue at Orchard Street	Plymouth Borough Police Department
TCP-128	Nottingham Street at Shawnee Avenue	Plymouth Borough Police Department
TCP-129	Davenport Street at Shawnee Avenue	Plymouth Borough Police Department
TCP-130	Blair Street at Shawnee Avenue	Plymouth Borough Police Department
TCP-131	Franklin Street at Parrish Street	Plymouth Borough Police Department

TCP-132	Coal Street at Parrish Street	Plymouth Borough Police Department
TCP-133	Jersey Hill Road at Hunlock Street	Plymouth Borough Police Department
TCP-134	Avondale Road at Route 11	Plymouth Borough Police Department
TCP-135	Mooney Road at Joel Hill Road	Plymouth Borough Police Department
TCP-136	Parrish Street at High Street	Wilkes-Barre City Police Department
TCP-137	Blackman Street at High Street	Wilkes-Barre City Police Department
TCP-138	Bradford Street at Brown Street	Wilkes-Barre City Police Department
TCP-139	McLean Street at Brown Street	Wilkes-Barre City Police Department
TCP-140	Poplar Street at Brown Street	Wilkes-Barre City Police Department
TCP-141	Andover Street at Brown Street	Wilkes-Barre City Police Department
TCP-142	Liberty Street at Spring Street	Ashley Borough Police Department
TCP-143	Hanover Village at Division Street	Hanover Township Police Department
TCP-144	Main Street at Regina Street	Hanover Township Police Department
TCP-145	Olive Street west of Graham Ave.	Hanover Township Police Department
TCP-146	Vine Street at Lee Park Avenue	Wilkes-Barre City Police Department
TCP-147	Boland Avenue at West Saint Marys Road	Hanover Township Police Department
TCP-148	West Saint Marys Road at Elma Drive	Hanover Township Police Department
TCP-149	Academy Road at Pfouts Street	Hanover Township Police Department
TCP-150	Kings Road at Marion Avenue	Hanover Township Police Department
TCP-151	Sans Souci Parkway at Parkway Hills Drive	Hanover Township Police Department
TCP-152	Breaker Road at Main Road	Hanover Township Police Department
TCP-153	Sans Souci-Parkway at Lincoln Drive	Hanover Township Police Department
TCP-154	Route 29 at West Sugar Notch Interchange	Hanover Township Police Department
TCP-155	Dundee Cross Road south of Loomis Park Rd	Hanover Township Police Department
TCP-156	Main Street at Division Street	Nanticoke City Police Department
TCP-157	Dewey Street at Main Street	Nanticoke City Police Department
TCP-158	Main Street at Kosciuszko Street	Nanticoke City Police Department
TCP-159	College Street at Green Street	Nanticoke City Police Department
TCP-160	State Street at Christian Street	Nanticoke City Police Department
TCP-161	Chestnut Street at Main Street	Nanticoke City Police Department
TCP-162	Walnut Street at Main Street	Nanticoke City Police Department
TCP-163	Broadway Street at Main street	Nanticoke City Police Department
TCP-165	Market Street at Arch Street	Nanticoke City Police Department
TCP-166	Nanticoke Avenue at Hill Street	Nanticoke City Police Department
TCP-167	Garfield Street at River Street	Nanticoke City Police Department
TCP-168	Reilly Street at Garfield Street	Nanticoke City Police Department
TCP-169	Ward Street at East Street	Nanticoke City Police Department
TCP-170	McDonald Street east of Poplar Street	Plymouth Township Police Department
TCP-171	Route 29 north of Lamoreaux Street	Plymouth Township Police Department
TCP-172	Hartman Road at Main Road	Pennsylvania State Police, Wyoming
TCP-173	North Main St at Rockview Avenue	Shickshinny Borough Police Department
TCP-174	Chestnut Street east of Nicely Street	Shickshinny Borough Police Department
TCP-175	Glenn Avenue at Rockview Avenue	Shickshinny Borough Police Department
TCP-176	Rockview Avenue east of Route 239	Shickshinny Borough Police Department
TCP-177	Route 239 north of Rockview Avenue	Shickshinny Borough Police Department
TCP-178	Grant Street at Butler Court	Shickshinny Borough Police Department

TCP-179	Mingle Inn Road East of Route 11	Salem Township Police Department
TCP-180	Route 11 south of Mingle Inn Road	Salem Township Police Department
TCP-181	Route 11 south of Thomas Road	Salem Township Police Department
TCP-182	Nicely Street east of Route 239	Conyngnam Township Police Department
TCP-183	Township Road 467 at Hillside Street	Conyngnam Township Police Department
TCP-184	Route 239 at Jeanette Street	Conyngnam Township Police Department
TCP-185	Route 239 north of Jeanette Street	Conyngnam Township Police Department
TCP-186	Pond Hill Road at Route 239	Conyngnam Township Police Department
TCP-187	Route 239 north of T459	Conyngnam Township Police Department
TCP-188	Ruckle Hill Road east of Hess Road	Conyngnam Township Police Department
TCP-189	Hess Road south of Ruckle Road	Conyngnam Township Police Department
TCP-190	Horseshoe Mountain Rd. east of Ruckle Road	Conyngnam Township Police Department
TCP-191	Route 239 south of Ruckle Road	Conyngnam Township Police Department
TCP-192	Route 239 north of Smith Mountain Road	Conyngnam Township Police Department
TCP-193	Route 239 at Township Road 474	Conyngnam Township Police Department
TCP-194	River Street at Township Road 448	Conyngnam Township Police Department
TCP-195	Church Street East of River Street	Conyngnam Township Police Department
TCP-196	Route 239 at Main Street	Conyngnam Township Police Department
TCP-197	Route 239 south of River Road	Nescopeck Township Police Department
TCP-198	Beach Grove Road west of Route 11	Salem Township Police Department
TCP-199	Entrance to Susquehanna Power Plant	Salem Township Police Department
TCP-200	Entrance to Susquehanna Power Plant	Salem Township Police Department
TCP-201	Route 11 at Bellbend Road	Salem Township Police Department
TCP-202	River Road at Route 11	Salem Township Police Department
TCP-203	River Road south of Walnut Drive	Salem Township Police Department
TCP-204	Walnut Drive south of Route 11	Salem Township Police Department
TCP-205	Beach Haven Road at Route 11	Salem Township Police Department
TCP-206	Market Street at Route 11	Salem Township Police Department
TCP-207	Main Street at Route 11	Salem Township Police Department
TCP-208	State Route 3036 north of SR 0093	Nescopeck Township Police Department
TCP-209	1st Street at Worchester Street	Nescopeck Township Police Department
TCP-210	Raber Street at Warren Street	Nescopeck Township Police Department
TCP-211	2nd Street at Warren Street	Nescopeck Township Police Department
TCP-212	Broad Street at 3rd Street	Nescopeck Township Police Department
TCP-213	4th Street at Welsh Avenue	Nescopeck Township Police Department
TCP-214	5th Street at Welsh Avenue	Nescopeck Township Police Department
TCP-215	Andres Avenue at Welsh Avenue	Nescopeck Township Police Department
TCP-216	Stair Avenue at Broad Street	Nescopeck Township Police Department
TCP-217	Broad Street at Township Road 381	Nescopeck Township Police Department
TCP-218	Stoudts Road south of Broad Street	Nescopeck Township Police Department
TCP-219	Broad Street south of Stoudts Road	Nescopeck Township Police Department
TCP-220	Dump Hill Road west of Broad Street	Nescopeck Township Police Department
TCP-221	Smith Hollow Road south of SR 339	Pennsylvania State Police, Wyoming
TCP-222	SR 339 west of Smith Hollow Road	Pennsylvania State Police, Wyoming
TCP-223	State Route 93 at Route 11	Berwick Borough Police Department
TCP-224	Ruhmel Lane at Susquehanna Avenue	Berwick Borough Police Department

TCP-225	South Eaton Street south of West Front Street	Berwick Borough Police Department
TCP-226	Commerce Drive south of West Front Street	Pennsylvania State Police, Wyoming
TCP-227	Market Street at Old Berwick Road	South Centre Township Police Department
TCP-228	Old Berwick Road west of Keefers Lane	South Centre Township Police Department
TCP-229	Old Berwick Road at Donnelly Lane	South Centre Township Police Department
TCP-230	East Third Street at River Road	South Centre Township Police Department
TCP-231	Route 339 at River Road	Pennsylvania State Police, Wyoming
TCP-232	Market Street at 1st Street	Pennsylvania State Police, Wyoming
TCP-233	Route 339 at West Street	Pennsylvania State Police, Wyoming
TCP-234	Route 339 at Interstate 80 Interchange	Pennsylvania State Police, Wyoming

**ATTACHMENT C
LOCATION MAP**

ATTACHMENT D TELEPHONE ROSTER

	NON-EMERGENCY	EMERGENCY
DAM OWNER/OPERATOR:		
MARK CROSS	570-830-6505	570-362-4297
LUZERNE COUNTY PSAP/911	570-826-3059	911
LUZERNE COUNTY EMA	570-820-4400	911
COLUMBIA COUNTY PSAP/911	570-784-6300	570-784-6300
COLUMBIA COUNTY EMA	570-389-5720	570-389-5720
DEP - NORTHEAST REGION	570-826-2511	570-826-2511
DEP - DIVISION OF DAM SAFETY	717-787-8568	717-787-4343 800-541-2050
PEMA	717-651-2001 800-424-7362	717-651-2001 800-424-7362

ATTACHMENT E

MEDIA ANNOUNCEMENT

EARLY WARNING MESSAGE:

The Luzerne and Columbia County Emergency Management Agencies advise that due to conditions at the Huntsville Dam in Lehman Township, the public should avoid the area downstream of the dam. The inundation area of the dam trends southeasterly adjacent to the Huntsville Creek and Tony Creek to through Lehman Township, Jackson Township, Kingston Township, Courtdale Borough, Luzerne Borough, Swoyersville Borough, Forty-Fort Borough, Plains Township, Wilkes-Barre City, Pringle Borough, and Edwardsville Borough to its confluence with the Susquehanna River at Larksville. The inundation area adjacent to the Susquehanna River then trends southwesterly from Larksville through Plymouth Borough, Ashley Borough, Hanover Township, Nanticoke City, Plymouth Township, Hunlock Township, Shickshinny Borough, Salem Township, Conyngham Township, Nescopeck Township, Mifflin Township, Berwick Borough, Briar Creek Township and ends in South Centre Township. Stay tuned for further information.

REPEAT PERIODICALLY

WARNING AND EVACUATION MESSAGE:

The Luzerne and Columbia County Emergency Management Agencies are advising all residents living downstream of the Huntsville Dam in Lehman Township to evacuate the area immediately. Evacuate the area which trends southeasterly adjacent to the Huntsville Creek and Tony Creek through Lehman Township, Jackson Township, Kingston Township, Courtdale Borough, Luzerne Borough, Swoyersville Borough, Forty-Fort Borough, Plains Township, Wilkes-Barre City, Pringle Borough, and Edwardsville Borough to its confluence with the Susquehanna River at Larksville. The inundation area adjacent to the Susquehanna River then trends southwesterly from Larksville through Plymouth Borough, Ashley Borough, Hanover Township, Nanticoke City, Plymouth Township, Hunlock Township, Shickshinny Borough, Salem Township, Conyngham Township, Nescopeck Township, Mifflin Township, Berwick Borough, Briar Creek Township and ends in South Centre Township. . If you require shelter during this emergency you should report to (*Location of evacuation center will be filled in when received by the Wyoming Valley Chapter of the American Red Cross*).

REPEAT PERIODICALLY

INCIDENT RESOLVED , SAFE TO RETURN:

The Luzerne and Columbia County Emergency Management Agencies are advising residents of the area downstream of the Huntsville Dam in Lehman Township that the problem at the dam has been resolved and that residents may return to their homes.

REPEAT PERIODICALLY

NOTE: The above messages should be modified as necessary to fit the situation.

ATTACHMENT F

NOTICE

HUNTSVILLE DAM HAS BEEN CLASSIFIED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION AS A HIGH HAZARD DAM; THIS IS, A DAM SO LOCATED AS TO ENDANGER POPULATED AREAS DOWNSTREAM BY ITS FAILURE.

AN EMERGENCY ACTION PLAN HAS BEEN DEVELOPED FOR
HUNTSVILLE DAM

A COPY OF THIS PLAN, INCLUDING AN INUNDATION MAP NOTING AREAS IN LEHMAN TOWNSHIP, JACKSON TOWNSHIP, KINGSTON TOWNSHIP, COURTDAL E BOROUGH, LUZERNE BOROUGH, SWOYERSVILLE BOROUGH, FORTY-FORT BOROUGH, PLAINS TOWNSHIP, WILKES-BARRE CITY, PRINGLE BOROUGH, EDWARDSVILLE BOROUGH, LARKSVILLE BOROUGH, PLYMOUTH BOROUGH, AHSLEY BOROUGH, HANOVER TOWNSHIP, NANTICOKE CITY, PLYMOUTH TOWNSHIP, HUNLOCK TOWNSHIP, SHICKSHINNY BOROUGH, SALEM TOWNSHIP, CONYNGHAM TOWNSHIP, NESCOPECK TOWNSHIP, MIFFLIN TOWNSHIP, BERWICK BOROUGH, BRIAR CREEK TOWNSHIP, AND SOUTH CENTRE TOWNSHIP SUBJECT TO FLOODING IN THE EVENT OF FAILURE, IS AVAILABLE FOR PUBLIC INSPECTION AT THE FOLLOWING LOCATIONS:

PAAMERICAN WATER COMPANY (DAM OWNER)	100 N. PENNSYLVANIA AVENUE, WILKES-BARRE, PA 18701 (ADDRESS)
LUZERNE COUNTY EMA (COUNTY EMA OFFICE)	185 WATER STREET, WILKES-BARRE, PA 18711 (ADDRESS)
COLUMBIA COUNTY EMA (COUNTY EMA OFFICE)	R 26 WEST 1 ST ST., BLOOMSBURG, PA 17815 (ADDRESS)
LEHMAN TOWNSHIP EMA (LOCAL EMA OFFICE)	1183 OLD ROUTE 115, DALLAS, PA 18612 (ADDRESS)
JACKSON TOWNSHIP EMA (LOCAL EMA OFFICE)	2211 HUNTSVILLE ROAD, SHAVERTOWN, PA 18708 (ADDRESS)
KINGSTON TOWNSHIP EMA (LOCAL EMA OFFICE)	180 EAST CENTER ST., SHAVERTOWN, PA 18704 (ADDRESS)
COURTDAL E BOROUGH EMA (LOCAL EMA OFFICE)	5 BLACKMAN STREET, KINGSTON, PA 18704 (ADDRESS)
LUZERNE BOROUGH EMA (LOCAL EMA OFFICE)	144 ACADEMY STREET, LUZERNE, PA 18709 (ADDRESS)

SWOYERSVILLE BOROUGH EMA (LOCAL EMA OFFICE)	675 MAIN STREET, SWOYERSVILLE, PA 18704 (ADDRESS)
FORTY-FORT BOROUGH EMA (LOCAL EMA OFFICE)	1271 WYOMING AVENUE, FORTY FORT, PA 187041 (ADDRESS)
PLAINS TOWNSHIP EMA (LOCAL EMA OFFICE)	126 NORTH MAIN STREET, PLAINS, PA 18705 (ADDRESS)
WILKES-BARRE CITY EMA (LOCAL EMA OFFICE)	40 EAST MARKET ST., WILKES-BARRE, PA 18711 (ADDRESS)
PRINGLE BOROUGH EMA (LOCAL EMA OFFICE)	89 EVANS STREET, PRINGLE, PA 18704 (ADDRESS)
EDWARDSVILLE BOROUGH EMA (LOCAL EMA OFFICE)	470 MAIN STREET, EDWARDSVILLE, PA 18704 (ADDRESS)
LARKSVILLE BOROUGH EMA (LOCAL EMA OFFICE)	211 EAST STATE STREET, LARKSVILLE, PA 18704 (ADDRESS)
PLYMOUTH BOROUGH EMA (LOCAL EMA OFFICE)	162 WEST SHAWNEE AVE., PLYMOUTH, PA 18651 (ADDRESS)
ASHLEY BOROUGH EMA (LOCAL EMA OFFICE)	10 NORTH MAIN STREET, ASHLEY, PA 18706 (ADDRESS)
HANOVER TOWNSHIP EMA (LOCAL EMA OFFICE)	1267 SANS SOUCI PARKWAY, HANOVER TOWNSHIP, PA 18706 (ADDRESS)
NANTICOKE CITY EMA (LOCAL EMA OFFICE)	15 EAST RIDGE STREET, NANTICOKE, PA 18634 (ADDRESS)
PLYMOUTH TOWNSHIP EMA (LOCAL EMA OFFICE)	925 WEST MAIN STREET, PLYMOUTH, PA 18651 (ADDRESS)
HUNLOCK TOWNSHIP EMA (LOCAL EMA OFFICE)	33 VILLAGE DRIVE, HUNLOCK CREEK, PA 18621 (ADDRESS)
SHICKSHINNY BOROUGH EMA (LOCAL EMA OFFICE)	35 WEST UNION STREET, SHICKSHINNY, PA 18655 (ADDRESS)
SALEM TOWNSHIP EMA (LOCAL EMA OFFICE)	38 BOMBOY LANE, BERWICK, PA 18603 (ADDRESS)
CONYNGHAM TOWNSHIP EMA (LOCAL EMA OFFICE)	10 POND HILL ROAD., MOCANAQUA, PA 18655 (ADDRESS)
NESCOPECK TOWNSHIP EMA (LOCAL EMA OFFICE)	429 BERWICK HAZLETON HIGHWAY, NESCOPECK, PA 18635 (ADDRESS)
MIFFLIN TOWNSHIP EMA (LOCAL EMA OFFICE)	201 1 st ST., MIFFLINVILLE, PA 18631 (ADDRESS)
BERWICK BOROUGH EMA (LOCAL EMA OFFICE)	1800 N. MARKET STREET, BERWICK, PA 18603 (ADDRESS)
SOUTH CENTRE TOWNSHIP EMA (LOCAL EMA OFFICE)	6260 4 TH STREET, BLOOMSBURG, PA 17815 (ADDRESS)

**This NOTICE is posted per Department of Environmental Protection's
Chapter 105 Dam Safety and Waterway Management §105.134(c).**

HUNTSVILLE DAM - DAM BREACH INUNDATION ZONE MAP

SEPTEMBER 2013

PERKINS-WALKER AMERICAN WATER CO.
SCARSDALE / WILKES-BARRE DISTRICT

HUNTSVILLE DAM - DAM BREACH
INUNDATION ZONE MAP

LEGEND:

- 100' Contour
- 200' Contour
- 300' Contour
- 400' Contour
- 500' Contour
- 600' Contour
- 700' Contour
- 800' Contour
- 900' Contour
- 1000' Contour
- 1100' Contour
- 1200' Contour
- 1300' Contour
- 1400' Contour
- 1500' Contour
- 1600' Contour
- 1700' Contour
- 1800' Contour
- 1900' Contour
- 2000' Contour
- 2100' Contour
- 2200' Contour
- 2300' Contour
- 2400' Contour
- 2500' Contour
- 2600' Contour
- 2700' Contour
- 2800' Contour
- 2900' Contour
- 3000' Contour
- 3100' Contour
- 3200' Contour
- 3300' Contour
- 3400' Contour
- 3500' Contour
- 3600' Contour
- 3700' Contour
- 3800' Contour
- 3900' Contour
- 4000' Contour
- 4100' Contour
- 4200' Contour
- 4300' Contour
- 4400' Contour
- 4500' Contour
- 4600' Contour
- 4700' Contour
- 4800' Contour
- 4900' Contour
- 5000' Contour
- 5100' Contour
- 5200' Contour
- 5300' Contour
- 5400' Contour
- 5500' Contour
- 5600' Contour
- 5700' Contour
- 5800' Contour
- 5900' Contour
- 6000' Contour
- 6100' Contour
- 6200' Contour
- 6300' Contour
- 6400' Contour
- 6500' Contour
- 6600' Contour
- 6700' Contour
- 6800' Contour
- 6900' Contour
- 7000' Contour
- 7100' Contour
- 7200' Contour
- 7300' Contour
- 7400' Contour
- 7500' Contour
- 7600' Contour
- 7700' Contour
- 7800' Contour
- 7900' Contour
- 8000' Contour
- 8100' Contour
- 8200' Contour
- 8300' Contour
- 8400' Contour
- 8500' Contour
- 8600' Contour
- 8700' Contour
- 8800' Contour
- 8900' Contour
- 9000' Contour
- 9100' Contour
- 9200' Contour
- 9300' Contour
- 9400' Contour
- 9500' Contour
- 9600' Contour
- 9700' Contour
- 9800' Contour
- 9900' Contour
- 10000' Contour



SHEET 3 OF 12

TRAFFIC CONTROL POINTS TOP-4

TRAFFIC CONTROL POINTS TOP-4

1. [Location]

2. [Location]

3. [Location]

4. [Location]

TRAFFIC CONTROL POINTS TOP-4

1. [Location]

2. [Location]

3. [Location]

4. [Location]

EMERGENCY ACTION PLAN
presented by
PENNSYLVANIA-AMERICAN WATER COMPANY

PENNSYLVANIA-AMERICAN WATER CO
SCOTTSDALE / PITTSBURGH DISTRICT

HUNTSVILLE DAM - DAM BREACH
INUNDATION ZONE MAP

LEGEND:

- 100 YEAR FLOOD ZONE
- 50 YEAR FLOOD ZONE
- 10 YEAR FLOOD ZONE
- 1 YEAR FLOOD ZONE
- 100 YEAR FLOOD ZONE
- 50 YEAR FLOOD ZONE
- 10 YEAR FLOOD ZONE
- 1 YEAR FLOOD ZONE
- 100 YEAR FLOOD ZONE
- 50 YEAR FLOOD ZONE
- 10 YEAR FLOOD ZONE
- 1 YEAR FLOOD ZONE
- 100 YEAR FLOOD ZONE
- 50 YEAR FLOOD ZONE
- 10 YEAR FLOOD ZONE
- 1 YEAR FLOOD ZONE



SHEET 4 OF 12



TRAFFIC CONTROL POINTS TOP-4

Point ID	Location	Notes
1
2
3
4

EMERGENCY ACTION PLAN
PREPARED BY
PENNSYLVANIA-AMERICAN WATER COMPANY

GENERAL NOTES:
1. THIS MAP WAS PREPARED BY THE ENGINEERING DEPARTMENT OF PENNSYLVANIA-AMERICAN WATER COMPANY, INC. (PAWCO) FOR THE PURPOSES OF THE HUNTSVILLE DAM EMERGENCY ACTION PLAN. THE MAP IS A REPRESENTATION OF THE INFORMATION PROVIDED TO PAWCO BY THE U.S. ARMY CORPS OF ENGINEERS (USACE) AND THE U.S. GEOLOGICAL SURVEY (USGS). PAWCO HAS CONDUCTED VISUAL INSPECTIONS OF THE DAM AND THE SURROUNDING AREA AND HAS FOUND NO MAJOR DISCREPANCIES BETWEEN THE INFORMATION PROVIDED AND THE ACTUAL CONDITIONS. HOWEVER, THE MAP IS NOT A GUARANTEE OF THE ACCURACY OF THE INFORMATION PROVIDED AND IS NOT TO BE USED FOR ANY OTHER PURPOSES WITHOUT THE WRITTEN CONSENT OF PAWCO. THE INFORMATION IS PROVIDED AS IS AND WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NONINFRINGEMENT. THE USER OF THIS MAP SHALL BE RESPONSIBLE FOR OBTAINING NECESSARY PERMITS AND FOR VERIFYING THE ACCURACY OF THE INFORMATION PROVIDED.

HUNTSVILLE DAM - DAM BREACH INUNDATION ZONE MAP

SEPTEMBER 2013

PENNSYLVANIA-AMERICAN WATER CO.
SCRANTON / WILKES BARRE DISTRICT

HUNTSVILLE DAM - DAM BREACH
INUNDATION ZONE MAP

LEGEND:

- MAIN WATER INUNDATION ZONE
- SECONDARY INUNDATION ZONE
- EXISTING ROAD
- EXISTING RAILROAD
- EXISTING POWER LINE
- EXISTING TELEPHONE LINE
- EXISTING GAS LINE
- EXISTING WATER MAIN
- EXISTING SEWER MAIN
- EXISTING DRAINAGE CANAL
- EXISTING CREEK
- EXISTING RIVER
- EXISTING LAKE
- EXISTING POND
- EXISTING DAM
- EXISTING STRUCTURE



SHEET 7 OF 12

EMERGENCY ACTION PLAN
prepared by
PENNSYLVANIA-AMERICAN WATER COMPANY

TRAFFIC CONTROL POINTS

GENERAL NOTES:
1. THIS MAP IS A PRELIMINARY MAP AND IS NOT TO BE USED FOR CONSTRUCTION OR AS A BASIS FOR DESIGN OR CONTRACT DOCUMENTS.
2. THE MAP IS BASED ON THE DATA PROVIDED BY THE CLIENT AND THE ENGINEER HAS NOT CONDUCTED A FIELD SURVEY TO VERIFY THE DATA.
3. THE MAP IS NOT TO BE USED FOR ANY PURPOSES OTHER THAN THOSE INTENDED BY THE CLIENT.
4. THE ENGINEER ASSUMES NO LIABILITY FOR ANY DAMAGE OR LOSS OF PROPERTY RESULTING FROM THE USE OF THIS MAP.
5. THE MAP IS THE PROPERTY OF THE ENGINEER AND IS NOT TO BE REPRODUCED OR TRANSMITTED IN ANY FORM OR BY ANY MEANS, ELECTRONIC OR MECHANICAL, INCLUDING PHOTOCOPYING, RECORDING, OR BY ANY INFORMATION STORAGE AND RETRIEVAL SYSTEM, WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

TRAFFIC CONTROL POINTS

EMERGENCY ACTION PLAN
prepared by
PENNSYLVANIA-AMERICAN WATER COMPANY