

DAM SAFETY INSPECTION CHECKLIST

NAME OF DAM:	<u>Forestburgh Pond Dam</u>	STATE ID #:	<u>163-0135</u>		
REGISTERED:	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	NID ID #:	<u>NY12761</u>		
		STATE HAZARD CLASSIFICATION:	<u>A</u>		
		CHANGE IN HAZARD CLASSIFICATION REQUESTED?:	<u>No</u>		
<u><i>DAM LOCATION INFORMATION</i></u>					
CITY/TOWN:	<u>Forestburgh</u>	COUNTY:	<u>Sullivan</u>		
DAM LOCATION: (street address if known)	<u>Stag Forest Road</u>	ALTERNATE DAM NAME:	<u></u>		
USGS QUAD.:	<u>Hartwood</u>	LAT.:	<u>41.54916667</u>	LONG.:	<u>74.74861111</u>
DRAINAGE BASIN:	<u>N/A</u>	RIVER:	<u>Black Brook</u>		
IMPOUNDMENT NAME(S):	<u>N/A</u>				
<u><i>GENERAL DAM INFORMATION</i></u>					
TYPE OF DAM:	<u>RE-Earth, MS-Masonry</u>	OVERALL LENGTH (FT):	<u>230</u>		
PURPOSE OF DAM:	<u>Recreation</u>	NORMAL POOL STORAGE (ACRE-FT):	<u>30</u>		
YEAR BUILT:	<u>1815</u>	MAXIMUM POOL STORAGE (ACRE-FT):	<u>40</u>		
STRUCTURAL HEIGHT (FT):	<u>14</u>	EL. NORMAL POOL (FT):	<u>+/- 1209.04</u>		

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<u><i>INSPECTION SUMMARY</i></u>		
DATE OF INSPECTION: <u>February 27, 2020</u>	DATE OF PREVIOUS INSPECTION: <u>October 23, 2014</u>	
TEMPERATURE/WEATHER: <u>40 Degrees and Sunny</u>		
CONSULTANT: <u>Keystone Associates</u>		
BENCHMARK/DATUM: <u>None</u>		
OVERALL PHYSICAL CONDITION OF DAM: <u>POOR</u>	DATE OF LAST REHABILITATION: <u>2012</u>	
SPILLWAY CAPACITY: <u>#N/A</u>		
EL. POOL DURING INSP.: <u>+/- 2" over spillway</u>		
<u><i>PERSONS PRESENT AT INSPECTION</i></u>		
<u>NAME</u>	<u>TITLE/POSITION</u>	<u>REPRESENTING</u>
Paul T. Woodward	Senior Designer	Keystone Associates
NAME OF INSPECTING ENGINEER:		

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<p>OWNER: ORGANIZATION <u>Forestburgh Pond Property Owners Association Inc.</u></p> <p>NAME/TITLE <u>Bob Lesperence</u></p> <p>STREET <u>155 Main Street, Suite D</u></p> <p>TOWN, STATE, ZIP <u>Oneonta, New York 13820</u></p> <p>PHONE <u>(607) 353-8068</u></p> <p>EMERGENCY PH. # <u>same</u></p> <p>FAX <u>n/a</u></p> <p>EMAIL <u>blesperence@newyorklandandlakes.com</u></p> <p>OWNER TYPE <u>Private</u></p>			
<p>PRIMARY SPILLWAY TYPE <u>Concrete</u></p>			
SPILLWAY LENGTH (FT) <u>+/- 14'</u>		SPILLWAY CAPACITY (CFS) <u>Unknown</u>	
AUXILIARY SPILLWAY TYPE <u>Rip rap lined channel</u>		AUX. SPILLWAY CAPACITY (CFS) <u>Unknown</u>	
NUMBER OF OUTLETS <u>Three (3)</u>		OUTLET(S) CAPACITY (CFS) <u>Unknown</u>	
TYPE OF OUTLETS <u>Principal and auxiliary spillways, low level outlet</u>			
DRAINAGE AREA (SQ MI) <u>+/- 2.13</u>		SPILLWAY DESIGN FLOOD (PERIOD/CFS) <u>Unknown</u>	
HAS DAM BEEN BREACHED OR OVERTOPPED <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, PROVIDE DATE(S) <u>Unknown</u>			
DOES CREST SUPPORT PUBLIC ROAD? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, ROAD NAME: _____			
PUBLIC BRIDGE WITHIN 50' OF DAM? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, ROAD/BRIDGE NAME: _____			
MHD BRIDGE NO. (IF APPLICABLE) _____			

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EMBANKMENT (CREST)					
AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
CREST	1. SURFACE TYPE	Earthen and stacked stone with concrete spillways	X		
	2. SURFACE CRACKING	None	X		
	3. SINKHOLES, ANIMAL BURROWS	Minor rodent activity noted		X	
	4. VERTICAL ALIGNMENT (DEPRESSIONS)	minor	X		
	5. HORIZONTAL ALIGNMENT	movement noted on outlet side		X	
	6. RUTS AND/OR PUDDLES	None	X		
	7. VEGETATION (PRESENCE/CONDITION)	well established - south side needs regular mowing		X	
ADDITIONAL COMMENTS: <u>South embankment (crest) is saturated - further investigation recommended</u> <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div>					

NAME OF DAM: Forestburgh Pond DamSTATE ID #: 163-0135INSPECTION DATE: February 27, 2020NID ID #: NY12761**EMBANKMENT (D/S SLOPE)**

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
D/S SLOPE	1. WET AREAS (NO FLOW)	South slope saturated, wet areas multiple locations north side			X
	2. SEEPAGE	No flow observed in embankment	X		
	3. SLIDE, SLOUGH, SCARP	None	X		
	4. VEGETATION (PRESENCE/CONDITION)	Present and well established	X		
	5. SINKHOLE/ANIMAL BURROWS	None observed	X		
	6. EROSION	None	X		
	7. UNUSUAL MOVEMENT	None	X		

ADDITIONAL COMMENTS: Item No. 1 - Further investigation recommendedRemove tree on south side at stone wall

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EMBANKMENT (U/S SLOPE)					
AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
U/S SLOPE	1. SLIDE, SLOUGH, SCARP	Minor slough noted on north side		X	
	2. SLOPE PROTECTION TYPE AND COND.	sparse - monitor effectiveness		X	
	3. SINKHOLE/ANIMAL BURROWS	minor activity note (within vegetation only)		X	
	4. VEGETATION (PRESENCE/CONDITION)	Present and well established	X		
	5. EROSION	None observed	X		
	6. UNUSUAL MOVEMENT	Minor movement noted northside (across from old tree stump)		X	
ADDITIONAL COMMENTS: _____ _____ _____ _____ _____ _____ _____					

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INSTRUMENTATION					
AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
INSTR.	1. PIEZOMETERS	None			
	2. OBSERVATION WELLS	None	X		
	3. STAFF GAGE AND RECORDER	None	X		
	4. WEIRS	None	X		
	5. INCLINOMETERS	None	X		
	6. SURVEY MONUMENTS	None	X		
	7. DRAINS	None	X		
	8. FREQUENCY OF READINGS	None	X		
	9. LOCATION OF READINGS	None	X		
ADDITIONAL COMMENTS: _____ _____ _____ _____					

NAME OF DAM: Forestburgh Pond DamSTATE ID #: 163-0135INSPECTION DATE: February 27, 2020NID ID #: NY12761**DOWNSTREAM MASONRY WALLS**

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
D/S WALLS	1. WALL TYPE	Stacked stone (and earthen)		X	
	2. WALL ALIGNMENT	Movement noted several locations		X	
	3. WALL CONDITION	Fair		X	
	4. SEEPAGE OR LEAKAGE	None within the stone wall	X		
	5. EROSION/SINKHOLES BEHIND WALL	None observed	X		
	6. ANIMAL BURROWS	None observed	X		
	7. UNUSUAL MOVEMENT	Movement noted several locations		X	
	8. WET AREAS AT TOE OF WALL	On northside		X	

ADDITIONAL COMMENTS: _____

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UPSTREAM MASONRY WALLS

AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
U/S WALLS	1. WALL TYPE	Stacked Stone	X		
	2. WALL ALIGNMENT	Not visible	X		
	3. WALL CONDITION	Not visible	X		
	4. EROSION/SINKHOLES BEHIND WALL	None observed	X		
	5. ANIMAL BURROWS	None observed	X		
	6. UNUSUAL MOVEMENT	None observed	X		

ADDITIONAL COMMENTS: _____

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AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
D/S AREA	1. ABUTMENT LEAKAGE	Flow noted in emergency drawdown spillway wall			X
	2. FOUNDATION SEEPAGE	None observed	X		
	3. SLIDE, SLOUGH, SCARP	None observed	X		
	5. DRAINAGE SYSTEM	None observed	X		
	6. INSTRUMENTATION	None observed	X		
	7. VEGETATION	Present and well established	X		
	8. ACCESSIBILITY	Easily accessible	X		
	9. DOWNSTREAM HAZARD DESCRIPTION	County Route 43 and State Route 42	X		
	10. DATE OF LAST EAP UPDATE	Unknown			

ADDITIONAL COMMENTS:

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MISCELLANEOUS		
AREA INSPECTED	CONDITION	OBSERVATIONS
MISC.	1. RESERVOIR DEPTH (AVG)	Unknown
	4. ACCESS ROADS	Maintained and accessible
	5. SECURITY DEVICES	None observed
	6. VANDALISM OR TRESPASS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	7. AVAILABILITY OF PLANS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	8. AVAILABILITY OF DESIGN CALCS	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	9. AVAILABILITY OF EAP/LAST UPDATE	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	10. AVAILABILITY OF O&M MANUAL	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
	11. CARETAKER/OWNER AVAILABLE	<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
	12. CONFINED SPACE ENTRY REQUIRED	<input type="checkbox"/> YES <input checked="" type="checkbox"/> NO PURPOSE:
ADDITIONAL COMMENTS: _____ _____ _____ _____		

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PRIMARY SPILLWAY					
AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
SPILLWAY	SPILLWAY TYPE	Concrete	X		
	SPILLWAY CONDITION	Cracks observed			X
	TRAINING WALLS	Cracks observed			X
	SPILLWAY CONTROLS AND CONDITION	No primary spillway controls	X		
	UNUSUAL MOVEMENT	None observed	X		
	DISCHARGE AREA	Clear with no obstructions	X		
	DEBRIS	None observed	X		
	WATER LEVEL AT TIME OF INSPECTION	+/- 2" deep	X		
ADDITIONAL COMMENTS: _____ _____ _____ _____					

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AUXILIARY SPILLWAY					
AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
SPILLWAY	SPILLWAY TYPE				
	WEIR TYPE	Earthen - riprap lined	X		
	SPILLWAY CONDITION	Remove woody growth and excess vegetation. Obstruction in spillway			X
	UNUSUAL MOVEMENT	None observed	X		
	APPROACH AREA	clear	X		
	DISCHARGE AREA	clear	X		
	DEBRIS	None observed	X		
	WATER LEVEL AT TIME OF INSPECTION	below spillway	X		
ADDITIONAL COMMENTS: <u>Remove access road that has been constructed across auxiliary spillway</u> <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div> <div style="border-bottom: 1px solid black; height: 15px; margin-top: 5px;"></div>					

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OUTLET WORKS					
AREA INSPECTED	CONDITION	OBSERVATIONS	NO ACTION	MONITOR	REPAIR
OUTLET WORKS	TYPE	Concrete spillway with wood weir		X	
	INTAKE STRUCTURE	N/A	X		
	TRASHRACK	None	X		
	PRIMARY CLOSURE	N/A	X		
	SECONDARY CLOSURE	N/A	X		
	CONDUIT	N/A	X		
	OUTLET STRUCTURE/HEADWALL	N/A	X		
	EROSION ALONG TOE OF DAM	None observed	X		
	SEEPAGE/LEAKAGE	Yes - south wall			X
	DEBRIS/BLOCKAGE	None	X		
	UNUSUAL MOVEMENT	Movement noted in concrete and stacked stone		X	
	DOWNSTREAM AREA	Clear and no opstructions	X		
	MISCELLANEOUS	Leakage appears to be associated with saturated conditions			X
ADDITIONAL COMMENTS: _____ _____ _____ _____ _____					



Photo No. 1

Date 03/05/2020

Location:
Beginning of Auxiliary
spillway

Subject:
Road built across spillway



Photo No. 2

Date 03/05/2020

Location:
Auxiliary Spillway

Subject:
Downgradient View



Photo No. 3

Date 03/05/2020

Location:
Northwest downstream face of dam

Subject:
View along downstream face



Photo No. 4

Date 03/05/2020

Location:
Northwest downstream area

Subject:
Wet area at toe of dam



Photo No. 5

Date 03/05/2020

Location:
Downstream area adjacent
to outlet

Subject:
Wet area



Photo No. 6

Date 03/05/2020

Location:
North side of dam, upstream
side

Subject:
Minor Slough



Photo No. 7

Date 03/05/2020

Location:
 North downstream face of dam

Subject:
 Outward movement of stacked stone dam wall



Photo No. 8

Date 03/05/2020

Location:
 North downstream face of dam

Subject:
 Outward movement of stacked stone dam wall



Photo No. 9

Date 03/05/2020

Location:
Primary Spillway

Subject:
Crack in south training wall



Photo No. 10

Date 03/05/2020

Location:
Primary Spillway

Subject:
Outward movement in north training wall



Photo No. 11

Date 03/05/2020

Location:
Primary Spillway

Subject:
Crack in north training wall



Photo No. 12

Date 03/05/2020

Location:
Downstream area

Subject:
Leak in low level outlet,
movement in low level outlet
walls.



Photo No. 13

Date 03/05/2020

Location:

 Low level outlet

Subject:

 Leak in concrete wall, wood

 weir not secured and leaking



Photo No. 14

Date 03/05/2020

Location:

 Downstream area

Subject:

 Tree growing on south

 embankment wall



Photo No. 15

Date 03/05/2020

Location:
South embankment crest

Subject:
Saturated embankment



Photo No. 16

Date 03/05/2020

Location:
South embankment crest

Subject:
Nothing to prevent vehicle
access to embankment crest