

June 16, 2016

EGOS 0613

Rick Smith
Township Manager
East Goshen Township
1580 Paoli Pike
West Chester, PA 19380

**RE: Hershey Mill Dam
2016 Annual Inspection**

Dear Rick:

This correspondence summarizes Pennoni's recent Visual Inspection of the Hershey Mill Dam located in East Goshen Township, PA. This is considered the Township's 2016 annual inspection.

Hershey's Mill Dam does not currently impound water. Pennoni understands that the observations and recommendations contained herein are provided in order to take the steps necessary to bring the dam into compliance with the Pennsylvania Dam Safety & Encroachments Act (Act 325 of 1978 as subsequently amended) and the Pennsylvania Code Title 25, Chapter 105. Repair plans are provided in a six sheet drawing set titled "Restoration Plan for Hershey's Mill Dam," developed by Edward B. Walsh & Associates, Inc. and dated April 10, 2012 (Rev. 4 date June 11, 2014). Pennoni understands a permit has been obtained and is on file with the PADEP as indicated in a letter to East Goshen Township dated July 15, 2014.

On May 12, 2016, representatives from East Goshen Township, and Pennoni met on site to perform the 2016 annual visual inspection. Our observations and findings from the 2016 inspection were generally similar to the 2015 inspection. The inspection checklist is attached to this correspondence. As a result of our inspection, the following repairs are recommended:

1. Control vegetation on upstream and downstream embankment face in accordance with PADEP "Inspection, Maintenance, and Operation of Dams in Pennsylvania," manual.
2. Repair/Stabilize upstream and downstream earth and stone wall slopes.
3. Repair/rebuild spillway slab and adjoining stone walls. Fill voids beneath spillway floor.
4. Repair/restore outlet structure.
5. Provide a defined outlet pool to prevent water from accumulating at toe of embankment wall.

Should you have any further questions, please contact me.

Sincerely,

PENNONI ASSOCIATES INC.

A handwritten signature in blue ink, appearing to read 'T. Thomson, Jr.', with a large, stylized loop at the end.

Theodore A. Thomson, Jr., PhD, PE, DGE, LEED AP
Senior Geotechnical Engineer

A handwritten signature in blue ink, appearing to read 'N. Cline', with a stylized 'N' and 'C'.

Nathan M. Cline, PE
Township Engineer

Attachments: Dam Inspection Checklist (31 pages)

DAM INSPECTION CHECKLIST
Department of Environmental Protection
Bureau of Waterways Engineering
Division of Dam Safety

NAME OF DAM: Hershey Mill Dam

DEP DAM NO.: 15-125

LOCATION: Municipality: East Goshen Township

County: Chester

DEP CLASSIFICATION DATA: Size: C

Hazard: 2 (based on published data)

PHYSICAL DATA:

Type of Dam: Earth embankment w/ concrete spillway

Height of Dam: 14 feet

Normal Pool Storage Capacity: 18 acre-feet

ELEVATIONS:

Normal Pool: 446.78 feet

Pool at Inspection: N/A (see Final Comment 1)

Tailwater at Inspection: 439.5 feet +/-

NAVD88 (Final Comment 1)

DAM OWNER: East Goshen Township

OPERATOR: East Goshen Township

ADDRESS: 1580 Paoli Pike

West Chester, PA

PHONE: 610 692 7171

FAX NO.: 610 692 8950

E-MAIL ADDRESS: rsmith@eastgoshen.org

A completed and signed Dam Owners Notice Checklist is to accompany this Inspection Checklist.

PERSONS PRESENT AT INSPECTION:

Name

Title/Position

Representing

Rick Smith

Township Manager

East Goshen Township

DATE OF INSPECTION: 5/12/2016

WEATHER: P. Sunny

TEMPERATURE: 63°F +/-



This is to certify that the above dam has been inspected and the following are the results of this inspection.

Signature of Registered Professional Engineer
(P.E. Seal Required)

6/14/16
Date

NAME OF DAM: Hershey Mill Dam	DEP DAM NO.: 15-125	DATE:
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ITEM	CONDITION	COMMENTS	MONITOR	INVESTIGATE	REPAIR
EMBANKMENT: CREST					
1	Surface Cracking	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Sinkhole, Animal Burrow	Significant	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3	Low Area(s)	Significant – see general comments below	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Horizontal Alignment	Poor – see general comments below	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	Ruts and/or Puddles	Rutting observed, no puddles	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Vegetation Condition	Severely overgrown – roots throughout embankment	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	Warning Signs	Yes – NE corner of dam crest – see Photograph 3	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Comments (Refer to item number if applicable): - See Photograph Nos. 1 & 2 for general condition of dam crest - The dam crest vertical and horizontal alignment is poor with variable grade change and variable crest width - The north east portion of the dam crest is private property with a swimming pool at the toe of embankment and a post-and-rail fence surrounding the property on the embankment					
EMBANKMENT: UPSTREAM FACE					
10	Slide, Slough, Scarp	Severe – see comment below	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	Slope Protection	Variable – combination of no stabilization & trees (see Photograph 3)	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	Sinkhole, Animal Burrow	Significant - see note below Photograph 6	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	Emb.-Abut. Contact	See comment below	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
14	Erosion	See comment below	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Vegetation Condition	Northeast side of spillway- Predominately overgrown w/ some bare areas; West side of spillway – stone wall	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Comments (Refer to item number if applicable): - Item Nos. 10 & 14 – portions of upstream face from spillway to the northeast have vertical faces with exposed earth approximately 2 to 4 feet high (see Photograph 4). Upstream face from spillway west consists of vertical stone wall approximately 2 to 4 feet high in poor condition (numerous cracking, see Photograph 5 and 5a). Large trees present at west end of crest. - Item 13 – At northeast end of crest, grade of crest blends in to natural grade. At west end of crest stone wall terminates abruptly.					

NAME OF DAM: Hershey Mill Dam	DEP DAM NO.: 15-125	DATE:
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ITEM	CONDITION	COMMENTS	MONITOR	INVESTIGATE	REPAIR
EMBANKMENT: DOWNSTREAM FACE					
18	Wet Area(s) (No Flow)	Standing water from spillway edge northeast 27 ft. +/- @ toe of wall. See Photograph 7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
19	Seepage	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20	Slide, Slough, Scarp	Northeast side of spillway shows areas of bare earth (scarp). See Photograph 8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
21	Emb. - Abut. Contact	See comments on "Upstream Face"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
22	Sinkhole, Animal Burrow	Significant along downstream face northeast of spillway	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
23	Erosion	Moderate where no vegetation present, see Photograph 8	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
24	Unusual Movement	See note below	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
25	Vegetation Control	Severely overgrown	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
26			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
27			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Comments (Refer to item number if applicable): <ul style="list-style-type: none"> - See Photograph Nos. 7 to 10 for general condition of downstream face. - Item 24 - Portion of downstream face stone wall in disrepair, see Photograph 11. Apparent depression in ground surface at base of stone wall approximately 35-45 feet to the northeast of the spillway (previously noted as 75 ft. +/- in 2015 report), see Photograph 7. - Downstream face on west side of spillway is a vertical stone wall 15 ft. +/- high. See Photograph 12. 					
EMBANKMENT: INSTRUMENTATION					
28	Piezometers/Observ. Wells	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
29	Staff Gauge and Recorder	Not observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30	Weirs	None present	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
31	Survey Monuments	Not observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
32	Drains	No instrumentation observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
33	Low Flow Release	No instrumentation observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
34	Frequency of Readings	Not available	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
35	Location of Records	Not available	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
36			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
37			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Comments (Refer to item number if applicable): <ul style="list-style-type: none"> - No instrumentation on embankment. 					

NAME OF DAM: Hershey Mill Dam	DEP DAM NO.: 15-125	DATE:
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ITEM	CONDITION	COMMENTS	MONITOR	INVESTIGATE	REPAIR
DOWNSTREAM AREA					
38	Abutment Leakage	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
39	Foundation Seepage	None observed – “EMBANKMENT: Downstream Face”	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	Slide, Slough, Scarp	None observed – flat area	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41	Drainage System	See note below	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
42	Boils	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
43	Wet Areas	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
44	Reservoir Slopes	Not present. Area downstream of dam is relatively level	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
45	Access Roads	Not applicable	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
46	Security Devices	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
47	Act 91 Run-of-the-River Signs or Bouys	Not applicable (N/A)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
48			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
49			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments (Refer to item number if applicable):

- Photograph Nos. 13 to 15 illustrate downstream area.
- Item 41 – spillway outlets into stream which partially flows into pipe which outlets on the south side of Greenhill Road. See Photograph 14.

SPILLWAYS: ERODABLE CHANNEL (see note below)					
50	Slide, Slough, Scarp	Vertical earth slopes on downstream pool and stream	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
51	Erosion	Same as Item 50. No active erosion observed.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
52	Vegetation Condition	Moderate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
53	Debris	None blocking flow	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
54			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
55			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments (Refer to item number if applicable):

- This section refers to downstream area from dam spillway and downstream. See Photograph Nos. 13 to 15 and 16 & 17 for general condition of downstream pool and stream.

NAME OF DAM: Hershey Mill Dam	DEP DAM NO.: 15-125	DATE:
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ITEM	CONDITION	COMMENTS	MONITOR	INVESTIGATE	REPAIR
SPILLWAYS: NON-ERODABLE CHANNEL					
56	Sidewalls	Severely cracked	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
57	Channel Floor	Apparent void(s) beneath floor	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
58	Unusual Movement	Appears to be differential settlement between spillway and sidewalls	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
59	Approach Area	Depressed from level of spillway floor. See note below.	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
60	Weir or Control	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
61	Discharge Channel	See "Erodible Channel" section above	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
62	Boils	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
63			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
64			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments (Refer to item number if applicable):

- See Photograph Nos. 17 to 19
- Item 59 – an apparent flat steel sheet was observed beneath the concrete spillway floor on the reservoir side of the spillway. The steel sheet appears to be prevent water from entering and/or erosion from occurring beneath the concrete spillway.

SPILLWAYS: DROP INLET

65	Intake Structure	See “Outlet Works” section below	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
66	Trashrack	See “Outlet Works” section below	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
67	Stilling Basin	See “Outlet Works” section below	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
68			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
69			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments (Refer to item number if applicable):

DATE:

70	Intake Structure	Covered with debris, see Photograph 20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
71	Trashrack	Covered with debris (not visible), see Photograph 20	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
72	Stilling Basin	See “SPILLWAYS: Erodible Channel” section above	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
73	Primary Closure	Does not appear to be present	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
74	Secondary Closure	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
75	Control Mechanism	See Item 81	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
76	Outlet Pipe	Only visible at outlet to spillway, see Photograph 16	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
77	Outlet Tower	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
78	Outlet Structure	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
79	Seepage	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
80	Unusual Movement	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
81	Instrumentation	See note below	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
82			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

- Item 81 – See Photograph 20. An approximately 8 inch diameter steel riser pipe is present immediately upstream of the concrete spillway towards the west side. The riser pipe does not appear to have any inner casing. The height from top of 8 inch diameter steel riser to pipe bottom is approximately 7.75 feet (soft bottom). Depth from top of riser to water level approximately 5 feet. The water depth was approximately 27 inches. This riser pipe reportedly provides access to a gate valve which allows control of the intake structure.

CONCRETE/MASONRY DAMS: UPSTREAM FACE

83	Surface Conditions	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
84	Condition of Joints	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
85	Unusual Movement	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
86	Abutment-Dam Contacts	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
87			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
88			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments (Refer to item number if applicable):

NAME OF DAM: Hershey Mill Dam	DEP DAM NO.: 15-125	DATE:
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ITEM	CONDITION	COMMENTS	MONITOR	INVESTIGATE	REPAIR
CONCRETE/MASONRY DAMS: DOWNSTREAM FACE					
89	Surface Conditions	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
90	Condition of Joints	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
91	Unusual Movement	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
92	Abutment-Dam Contacts	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
93	Drains	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
94	Leakage	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
95			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
96			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Comments (Refer to item number if applicable):					
CONCRETE/MASONRY DAMS: CREST					
97	Surface Conditions	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
98	Horizontal Alignment	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
99	Vertical Alignment	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
100	Condition of Joints	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
101	Unusual Movements	N/A	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
102			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
103			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Comments (Refer to item number if applicable):					

NAME OF DAM: Hershey Mill Dam	DEP DAM NO.: 15-125	DATE:
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ITEM	CONDITION	COMMENTS	MONITOR	INVESTIGATE	REPAIR
RESERVOIR AREA					
104	Sedimentation	See note below and "Final Comment 1"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
105	Slope Stability	Good by dam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
106	Sinkholes	None observed by dam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
107	Fractures	None observed by dam	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
108	Unwanted Growth	See "Final Comment 1"	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
109	Storage Gage	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
110			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
111			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments (Refer to item number if applicable):

- See Photograph 20 for typical photograph of reservoir
- Item 104 – The dam does not currently impound water. Two small streams are present which drain into the intake structure. Fine grained sediments are present throughout the reservoir area to depths of a couple feet.

Final Comments:

1. No significant changes were observed from the 2015 inspection.
2. Hershey's Mill Dam does not currently impound water. Pennoni understands that the observations and recommendations contained herein are provided in order to take the steps necessary to bring the dam into compliance with the Pennsylvania Dam Safety & Encroachments Act (Act 325 of 1978 as subsequently amended) and the Pennsylvania Code Title 25, Chapter 105. Repair plans are provided in a six sheet drawing set titled "Restoration Plan for Hershey's Mill Dam," developed by Edward B. Walsh & Associates, Inc. and dated April 10, 2012 (Rev. 4 date June 11, 2014).
3. A permit has been obtained and is on file with the PADEP as indicated in a letter to East Goshen Township dated July 15, 2014.

Notwithstanding the drawings indicated above, recommended repairs as a result of the 2016 inspection consist of:

1. Control vegetation on upstream and downstream embankment face in accordance with PADEP "Inspection, Maintenance, and Operation of Dams in Pennsylvania," manual.
2. Repair/Stabilize upstream and downstream earth and stone wall slopes.
3. Repair/rebuild spillway slab and adjoining stone walls. Fill voids beneath spillway floor.
4. Repair/restore outlet structure.
5. Provide a defined outlet pool to prevent water from accumulating at toe of embankment wall.

DAM OWNERS NOTICE CHECKLIST
Department of Environmental Protection
Bureau of Waterways Engineering
Division of Dam Safety

NAME OF DAM:

DEP DAM NO.:

This is to certify that both the Downstream Hazard Description is accurate and the Posted Notice locations listed below have been inspected and the following are the results of these inspections.

 Name of Dam Owner

 Signature of Dam Owner

 Date

This Dam Owners Notice Checklist is to accompany the Inspection Checklist filed by the Engineer.

EMERGENCY ACTION PLAN

Date of Last Update of Emergency Plan: _____

Downstream Hazard Description (Refer to sections II.C and II.D in the EAP), additionally, specify any new developments, structures, etc. downstream within the inundation area:

POSTED NOTICES (Refer to section V.A in the EAP)

ITEM	DATE INSPECTED	LOCATION	COMMENTS	EXISTING	MISSING	REPLACED
1				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
9				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
11				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Additional Comments (Refer to item number if applicable):



Photo 1. Dam Crest Looking Northeast (Northeast Side of Spillway)

Note: This photo was obtained by Pennoni on May 12, 2016.


<div><p>Pennoni</p><p>PENNONI ASSOCIATES INC. CONSULTING ENGINEERS</p></div> <div><p>Pennoni Associates, Inc.</p><p>One South Church Street, 2nd Floor</p><p>West Chester, PA 19382</p></div>	<p>ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.</p>	TAKEN BY:	SCALE:	DATE:
		PENNONI	NTS	5/25/16
		CHECKED BY:	PHOTOGRAPH No.	
		TAT		
PROJECT No:	P-1			
EGOS0613				
HERSHEY MILL DAM INSPECTION REPORT PHOTO LOG				



Photo 2. Dam Crest Looking West (West Side of Spillway)

Note: This photo was obtained by Pennoni on May 12, 2016.



Pennoni Associates, Inc.
One South Church Street, 2nd Floor
West Chester, PA 19382

ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

TAKEN BY:

PENNONI

CHECKED BY:

TAT

PROJECT No:

EGOS0613

SCALE:

NTS

DATE:

5/25/16

PHOTOGRAPH No.

P-2

HERSHEY MILL DAM INSPECTION REPORT PHOTO LOG



Photo 3. Warning Sign in Northeast Corner

Note: This photo was obtained by Pennoni on May 12, 2016.


<div><p>Pennoni</p><p><small>PENNONI ASSOCIATES INC. CONSULTING ENGINEERS</small></p></div> <div><p>Pennoni Associates, Inc.</p><p>One South Church Street, 2nd Floor</p><p>West Chester, PA 19382</p></div>	<p>ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.</p>	TAKEN BY:	SCALE:	DATE:	
		PENNONI	NTS	5/25/16	
		CHECKED BY:	PHOTOGRAPH No.		
		TAT			
PROJECT No:	P-3				
EGOS0613					
HERSHEY MILL DAM INSPECTION REPORT PHOTO LOG					



Photo 4. Upstream Face on Northeast Side of Spillway Looking Northeast

Note: This photo was obtained by Pennoni on May 12, 2016.



Pennoni Associates, Inc.
One South Church Street, 2nd Floor
West Chester, PA 19382

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Photo 5. Upstream Face on West Side of Spillway Facing South East

Note: This photo was obtained by Pennoni on May 12, 2016.


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Photo 5a. Upstream Face on Northeast Side Facing Southwest

Note: This photo was obtained by Pennoni on May 12, 2016.



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Photo 6. Typical Animal Burrows on Northeast Upstream Embankment Face

Note: This photo was obtained by Pennoni on May 12, 2016.

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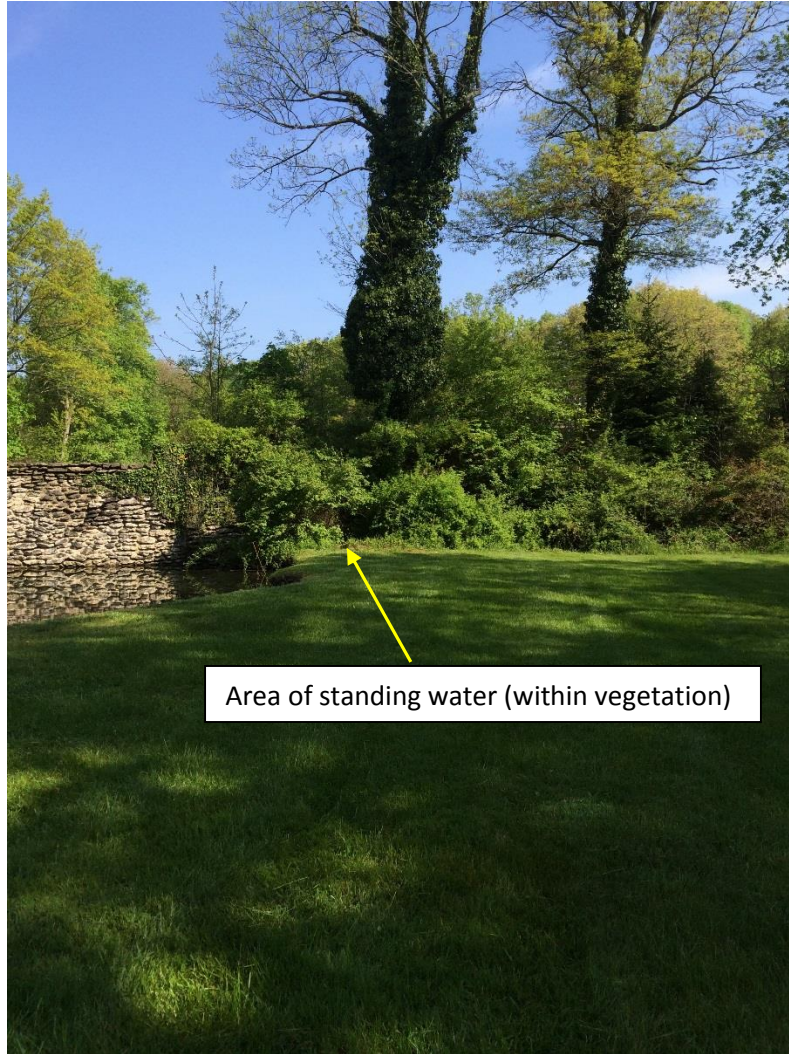


Photo 7. Downstream Face Northeast Side Looking North

Note: This photo was obtained by Pennoni on May 12, 2016.


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Photo 8. Downstream Face Northeast Side – Exposed Earth

Note: This photo was obtained by Pennoni on May 12, 2016.


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Photo 9. Downstream Face Northeast Side Looking North – Residential Property

Note: This photo was obtained by Pennoni on May 12, 2016.


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Photo 10. Downstream Face Northeast Side Looking North

Note: This photo was obtained by Pennoni on May 12, 2016.


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Photo 11. Downstream Face Northeast Side Looking North – Stone Wall in Disrepair

Note: This photo was obtained by Pennoni on May 12, 2016.


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Photo 12. Downstream Face West Side Facing West

Note: This photo was obtained by Pennoni on May 12, 2016.


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Photo 13. Downstream Side of Dam Facing Southeast

Note: This photo was obtained by Pennoni on May 12, 2016.


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Photo 14. Downstream Side of Dam Facing South

Note: This photo was obtained by Pennoni on May 12, 2016.


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Photo 15. Downstream Side of Dam Facing Southwest

Note: This photo was obtained by Pennoni on May 12, 2016.



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Photo 16. Downstream Outlet Pipe Through Dam

Note: This photo was obtained by Pennoni Associates on May 12, 2016.


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Photo 17. Downstream Edge of Discharge Pool

Note: This photo was obtained by Pennoni on May 12, 2016.


<div><p>Pennoni</p><p><small>PENNONI ASSOCIATES INC.</small></p><p><small>CONSULTING ENGINEERS</small></p></div> <div><p>Pennoni Associates, Inc.</p><p>One South Church Street, 2nd Floor</p><p>West Chester, PA 19382</p></div>	<p>ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.</p>	TAKEN BY:	SCALE:	DATE:	
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Photo 18. Edge of Concrete Spillway Facing Southwest

Note: This photo was obtained by Pennoni on May 12, 2016.


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Photo 19. Spillway Slab Looking West

Note: This photo was obtained by Pennoni on May 12, 2016.



<div><p>Pennoni</p><p>PENNONI ASSOCIATES INC.</p><p>CONSULTING ENGINEERS</p></div> <div><p>Pennoni Associates, Inc.</p><p>One South Church Street, 2nd Floor</p><p>West Chester, PA 19382</p></div>	<p>ALL DOCUMENTS PREPARED BY PENNONI ASSOCIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE BY OWNER OR OTHERS ON EXTENSIONS OF THE PROJECT OR ON ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY PENNONI ASSOCIATES FOR THE SPECIFIC PURPOSE INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO PENNONI ASSOCIATES; AND OWNER SHALL INDEMNIFY AND HOLD HARMLESS PENNONI ASSOCIATES FROM ALL CLAIMS, DAMAGES, LOSSES, AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.</p>	TAKEN BY:	SCALE:	DATE:	
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Photo 20. Reservoir Area Facing North

Note: This photo was obtained by Pennoni on May 12, 2016.

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