

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: 439.9 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

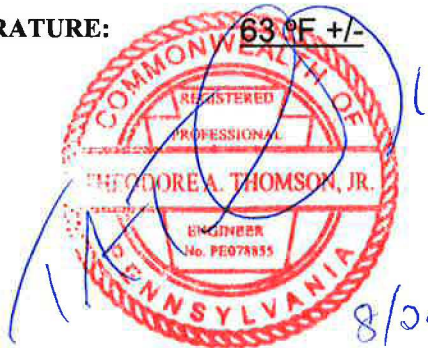
Township Manager

East Goshen Township

DATE OF INSPECTION: 5/20/2015

WEATHER: Sunny, breezy

TEMPERATURE: 63°F +/-



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

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

8/24/15

Date

NAME OF DAM: Hershey Mill Dam	DEP DAM NO.: 15-125	DATE: 8/24/15
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ITEM	CONDITION	COMMENTS	MONITOR	INVESTIGATE	REPAIR
EMBANKMENT: CREST					
1	Surface Cracking	None observed – vegetation prohibited thorough review	<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	<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 to be private property with a swimming pool at toe of crest (see Photograph 3 area of post and rail fence)					
EMBANKMENT: UPSTREAM FACE					
10	Slide, Slough, Scarp	Severe – see comment below	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
11	Slope Protection	Vegetation & trees currently stabilize the slope – see Photograph 7	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
12	Sinkhole, Animal Burrow	Significant - see note below Photograph 8	<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	Severely overgrown	<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). Large trees present at west end of crest (see Photograph 6). - Item 13 – At northeast end of crest, grade of crest blends in to natural grade. At west end of crest stone wall terminates abruptly.					

DATE: 8/24/15☐

- See Photograph Nos. 9 to 11 for general condition of downstream face.
- Item 24 - Portion of downstream face stone wall in disrepair, see Photograph 13. Apparent depression in ground surface at base of stone wall approximately 75 feet to the northeast of the spillway, see Photograph 14.

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Additional Comments (Refer to item number if applicable):

NAME OF DAM: Hershey Mill Dam	DEP DAM NO.: 15-125	DATE: 8/24/15
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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	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40	Slide, Slough, Scarp	None observed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
41	Drainage System	See note below	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" 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):

- Item 41 – spillway outlets into stream which partially flows into pipe which outlets on the south side of Greenhill Road. Entrance to pipe is partially blocked with debris. See Photograph 16 & 17.

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	<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. 16 to 18 for general condition of downstream pool and stream.

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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	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	<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. 19 to 22 & 5					
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):					

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ITEM	CONDITION	COMMENTS	MONITOR	INVESTIGATE	REPAIR
OUTLET WORKS					
70	Intake Structure	Covered with debris, see Photograph 23	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
71	Trashrack	Does not appear to be present, see Photograph 23	<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 note below	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
76	Outlet Pipe	Only visible at outlet to spillway, see Photograph 22	<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			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
82			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Additional Comments (Refer to item number if applicable): - Item 75 – See Photograph 15. Height from top of 8 inch diameter steel riser to pipe bottom approximately 7.75 feet (soft bottom). Depth from top of riser to water level approximately 6.25 feet.					
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): 					

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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: 8/24/15
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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"/>
<p>Additional Comments (Refer to item number if applicable):</p> <ul style="list-style-type: none"> - See Photograph 15 for typical photograph of reservoir 					
<p>Final Comments:</p> <ol style="list-style-type: none"> 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). 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. <p>Notwithstanding the drawings indicated above, recommended repairs as a result of the 2015 inspection consist of:</p> <ol style="list-style-type: none"> Control vegetation on upstream and downstream embankment face in accordance with PADEP "Inspection, Maintenance, and Operation of Dams in Pennsylvania," manual. Repair/Stabilize upstream and downstream earth and stone wall slopes. Repair/rebuild spillway slab and adjoining stone walls. Fill voids beneath spillway floor. Repair/restore outlet structure. 					

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

Note: This photo was obtained by Pennoni on May 20, 2015.



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One South Church Street, 2nd Floor
West Chester, PA 19382

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PENNONI

CHECKED BY:

TAT

PROJECT No:

EGOS0613

SCALE:

NTS

DATE:

6/25/15

PHOTOGRAPH No.

P-1

HERSHEY MILL DAM INSPECTION REPORT PHOTO LOG



Photo 2. Dam Crest Looking West

Note: This photo was obtained by Pennoni on May 20, 2015.



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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 20, 2015.



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P-3

HERSHEY MILL DAM INSPECTION REPORT PHOTO LOG



Photo 4. Upstream Face Looking Northeast

Note: This photo was obtained by Pennoni on May 20, 2015.



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PHOTOGRAPH No.

P-4

HERSHEY MILL DAM INSPECTION REPORT PHOTO LOG



Photo 5. Upstream Face on West Side Facing South at Spillway

Note: This photo was obtained by Pennoni on May 20, 2015.



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6/25/15

PHOTOGRAPH No.

P-5

HERSHEY MILL DAM INSPECTION REPORT PHOTO LOG



Photo 6. Upstream Face on West Side Looking South

Note: This photo was obtained by Pennoni on May 20, 2015.



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PHOTOGRAPH No.

P-6

HERSHEY MILL DAM INSPECTION REPORT PHOTO LOG



Photo 7. Upstream Face Northeast Side Looking West

Note: This photo was obtained by Pennoni on May 20, 2015.


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		PENNONI	NTS	6/25/15	
		CHECKED BY:	PHOTOGRAPH No.		
		TAT			
PROJECT No:	P-7				
EGOS0613					
HERSHEY MILL DAM INSPECTION REPORT PHOTO LOG					



Photo 8. Upstream Face Northeast Side – Typical Void

Note: This photo was obtained by Pennoni on May 20, 2015.



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6/25/15

PHOTOGRAPH No.

P-8

HERSHEY MILL DAM INSPECTION REPORT PHOTO LOG



Photo 9. Downstream Face Northeast Side Looking South

Note: This photo was obtained by Pennoni on May 20, 2015.



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Photo 10. Downstream Face Looking Northeast

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Photo 11. Downstream Face Looking West

Note: This photo was obtained by Pennoni on May 20, 2015.



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Photo 12. Downstream Face Northeast Side – Slope Erosion

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Photo 13. Downstream Face Northeast Side – Wall Disrepair

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Photo 14. Downstream Face Northeast Side – Depression at Toe

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Photo 15. Outlet Control Valve Housing on Upstream Side of Spillway

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Photo 16. Downstream Area from Spillway

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Photo 17. Downstream Pipe

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Photo 18. Downstream Pool Looking Northeast

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Photo 19. Spillway Slab Looking West

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Photo 20. Spillway Northeast Wall

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Photo 21. Spillway West Wall

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Photo 22. Spillway Downstream Face

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Photo 23. Outlet Structure/Trashrack Upstream of Spillway

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